Mohave Valley Landfill
Solid Waste Facilities Plan
Type IV Change to MFPA No. 08004600

Division of Environmental Quality/Waste Disposal
Mohave County Development Services
3250 E Kino Ave,
Kingman, AZ 86409
Phone: 928-757-0903

SCS ENGINEERS

01216008.10 | March 31, 2026

6100 South Maple Avenue
Suite 118
Tempe, AZ 85283
602-840-2596

Table of Contents

Section Page

1 Certification and Disclaimer Statement 1
2 Type IV Change Executive Summary 2
Background 2
Purpose, Scope, and Applicability 3
Organization of the 2026 Type IV SWFP Change 3
1.0 General Information 4
1.1 Facility Name and Address 4
1.2 General Description of facility Operations and History 4
1.2.1 Description of Facility Operations 4
1.2.2 Brief History of the Existing Facility 5
1.3 Owner and Operator Information 6
1.4 Agent Information 7
1.5 facility information 7
1.5.1 Total Facility Acreage 7
1.5.2 Population Base Served 7
1.5.3 Major Design Features 8
1.5.4 Climatology 8
1.5.5 Local Vegetation and Geography 9
1.5.6 Adjoining Land Uses 9
1.5.7 Drainage Characteristics of the Facility 10
1.5.8 Design Capacity and Site Life 10
1.6 Location Map 11
1.6.1 Latitude and Longitude 11
1.6.2 Direction from a Major Existing Roadway 11
1.6.3 Proposed Service Area 11
1.6.4 Location of the Closest Population Centers 11
1.6.5 Transportation Systems 11
1.7 Aerial Photograph 11
1.8 Vicinity Map 12
1.8.1 Area within One Mile of the Facility 12
1.8.2 Adjacent Zoning Arid Land Use 12
1.8.3 Access Roads, Bridges, and Railroads 12
1.8.4 Airports Within 10,000 feet of the Facility 12
1.8.5 Floodplains within One-Half Mile of the Facility 13
1.8.6 Surface Water Courses, Wetlands, and Ground Water Wells 13
1.8.7 Historic Sites 13
1.8.8 Other Existing or Proposed Significant Features 14
1.9 Acknowledgments and Authorized Siginature 14
2.0 Locations Restrictions 15
2.1.1 Irrigation Grandfathered Rights 15

2.1.2 Floodplains 15
2.1.3 Airport Safety 15
2.1.4 Wetlands 16
2.1.5 Fault Areas 16
2.1.6 Seismic Impact Zones 16
2.1.7 Unstable Areas 17
3.0 Administrative Demonstrations 19
3.1 Financial Assurance Requirements 19
3.1.1 Closure Costs 19
3.1.2 Post-Closure Maintenance Costs 19
3.1.3 Financial Assurance Mechanism 19
3.2 Technical Capability 20
3.2.1 Professional Licenses and Certificates 20
3.2.2 Professional Training Relevant to Solid Waste Facilities 20
3.2.3 Work Experience Relevant to Solid Waste Facilities 21
3.3 Other Information 21
3.3.1 Land Lease Agreements 21
3.3.2 Notification of Owner 21
3.3.3 Certificate of Disclosure 21
3.3.4 Public Agency Demonstrations 21
3.3.5 Restrictive Covenant 22
4.0 Other Approvals/Demonstrations 23
4.1 Archaeological Clearance 23
4.2 Zoning and/or Special Use Permit 23
4.3 Drainage Diversion 23
4.4 Well Drilling Registrations 24
4.5 Open Burn Permit 24
4.6 Endangered Plants and Species 24
4.7 Section 404 Permit/ADEQ 401 Certification 24
4.8 NPDES Stormwater Permit 24
4.9 New Source Performance Standard (NSPS) & Emission Guidelines (EG) 25
5.0 Operating Plan 26
6.0 Design Criteria 27
6.1 Engineering Design Plans and Specifications 27
6.2 Engineering Report 29
6.2.1 Liner Design 29
6.2.2 Leachate Collection and Recovery System 30
6.2.2.1 Leachate Collection and Recovery System Components 30
6.2.2.2 Leachate Evaporation Pond Design 31
Pond Liner System 31
Pond Evaporation Calculations 32
Arizona Best Available Demonstrated Control Technology (BADCT) Compliance 32
Facility Inspection and Contingency Plan 33

6.2.3 Inspections and Maintenance 33
6.2.4 Action Leakage Rate 33
Closure and Post Closure 34
6.2.5 Design Capacity, Disposal Rate, Site Life and Soil Balance Calculations 34
6.2.5.1 Design Capacity 34
6.2.5.2 Waste Disposal Rate 35
6.2.5.3 Site Life Estimate 35
6.2.5.4 Site Soil Balance 35
6.2.6 Drainage Facility Design 35
6.2.6.1 Run-On Diversion Ditch and Basin (Designed by others) 36
6.2.6.2 Run-Off Control System 36
6.2.6.3 Hydrologic Analysis 37
6.2.7 Slope Stability Analyses 37
6.2.8 Unstable Areas 37
6.2.9 Landfill Gas Collection System 38
6.3 Quality Assurance/Quality Control (QA/QC) Plan 38
6.4 Construction Report 38
6.5 Landscape Plan 39
6.6 Soil Loss Estimates 39
7.0 Hydrogeologic Study 40
8.0 Groundwater Monitoring Activities 41
9.0 Closure and Post-Closure Plans 42
9.1 Applicability 42
9.2 Closure Schedule 42
9.3 Closure Plan 43
9.3.1 Final Cover Design 43
9.3.2 Final Cover Installation 44
9.3.3 Site Life and Capacity 45
9.3.4 Drainage Facility Installation 46
9.3.5 Septage Pond Closure 46
9.3.6 Decommissioning and Decontamination 46
9.3.7 Plan for Removing Waste Inventory 46
9.3.8 Installation of Monitoring Devices 47
9.3.9 Estimated Landfill Closure Costs 47
9.3.10 Closure Certification and Land Deed 48
9.4 Post-Closure Plan 48
9.4.1 Post-Closure Administration 48
9.4.2 Final Cover Inspection and Maintenance 49
9.4.3 Drainage Control System Inspection and Maintenance 49
9.4.4 Environmental Monitoring Devices 50
9.4.5 Security Inspection and Maintenance 51
9.4.6 Estimated Post-Closure Maintenance Costs 51
9.4.7 Post-Closure Land Use 51
9.4.8 Post-Closure Certification 51

10.0 Modification from 2011 SWFP 52
10.1 Landfill Footprint and Site Geometry 52
10.2 Composite Liner and Leachate Collection System 52
10.3 Updated Bottom and Final Grading 52
10.4 Updated Stormwater and Drainage Infrastructure 53
10.5 Groundwater Monitoring Program Update 53

Appendices

Appendix A Figures and drawings
A-1 Figures
- Figure 1 Vicinity Map
- Figure 2 Location Map
- Figure 3 Floodplain Map
- Figure 4 Weather Station Locations
- Figure 5 Drawing G02 – Existing Conditions & Site Plan – 2011 SWFP

A-2 New Permit Drawings
Drawing 1 Cover Sheet
Drawing 2 Index Sheet
Drawing 3A Existing Site Conditions
Drawing 3B Proposed Facility Development Plans
Drawing 4 Existing and Proposed Top of Subgrade Elevations
Drawing 5 Leachate Management Site Plan
Drawing 6 Final Cover Grading Plan
Drawing 7 Stormwater Management Plan
Drawing 8 Typical Cross-Sections
Drawing 9 Leachate Pond Grading Plan Layout
Drawing 10 Leachate Pond Grading Plan Cross Sections
Drawing 11 Typical Details
Drawing 12 Typical Details
Drawing 13 Typical Details
Drawing 14 Typical Details
Drawing 15 Typical Details
Drawing 16 Typical Details **Appendix B Climatological Data**
Appendix C Permits and Approvals

- C-1 Waste Tire Collection Site Registration
- C-2 Solid Waste Facility Plan Approval
- C-3 2020 Solid Waste Facility Permit
- C-4 Battery Collection Site Registration and Approval
- C-5 Flow Diversion Approval
- C-6 Septage Evaporation Pond Aquifer Protection Permit (APP P-100330.02)
- C-7 Public Notices, Meetings Minutes, and List of Adjacent Property Owners
- C-8 Restrictive Covenant
- C-9 Archaeological Clearance
- C-10 Zoning Documents
- C-11 Endangered Species Clearance

- C-12 ADEQ 401 Permit Documentation
- C-13 Army Corps of Engineers 404 Permit Documentation
- C-14 NPDES Notice of Intent
- C-15 Air Quality Permit Documentation

Appendix D Remaining Capacity, Site Life, and Soil Balance Calculation

Appendix E Geotechnical Data and life Calculations

- E-1 Seismic and Stability Analysis
- E-2 Soil Testing Results
- E-3 Soil Loss Calculations
- E-4 Floor Settlement Analysis

Appendix F Reserved

Appendix G Reserved

Appendix H Reserved

Appendix I Cell Construction Technical Specifications and CQA Manual

- I -1 Technical Specifications
- I-2 CQA Program

Appendix J Surface Water Drainage Analysis

Appendix K 1993 Conceptual Hydrogeologic Model of Mohave Valley Landfill Site

Appendix L Closure and Post-Closure Cost Documentation

- L-1 Closure and Post-Closure Cost Estimate
- L-2 Financial Assurance Demonstration

Appendix M Stormwater Pollution Prevention Plan (SWPP)

Appendix N Operating Plan

Appendix O Liner and Leachate Collection and Recovery System Design Calculations

- O-1 Anchor Trench Pullout Calculations
- O-2 HELP Model Results
- O-3 Leachate Pump Sizing
- O-4 Transmissivity Calculations
- O-5 Pipe Strength Calculations
- O-6 Leachate Pond Evaporation Water Balance Calculations
- O-7 Leachate Pond Action Leakage Rate Calculations

1 CERTIFICATION AND DISCLAIMER STATEMENT

I, Michael P. Bradford, P.E., of SCS Engineers certify that this Solid Waste Facility Plan Type IV change for the Mohave Valley Landfill was prepared by me or under my direct supervision in accordance with applicable Arizona requirements, including Arizona Revised Statutes § 49-762, Arizona Administrative Code Title 18, Chapter 13, and 40 CFR Part 258, and that the information presented is true, correct, and accurate to the best of my knowledge.

This document modifies applicable portions of the Solid Waste Facility Plan (SWFP) Type IV change application document that was submitted by Vector Engineering, Inc. in January 2011 and subsequently approved by the Arizona Department of Environmental Quality on August 24, 2011 under MFPA No. 08004600.02. This certification applies only to the explicitly identified modifications to the January 2011 SWFP and does not supersede the professional certifications of that prior submittal unless specifically stated. This work assumes that technical information and data used to complete calculations, modeling, and designs are true and accurate and were provided in good faith.

Michael Bradford, P.E. (AZ #47980)

SCS ENGINEERS

2 TYPE IV CHANGE EXECUTIVE SUMMARY

2026 Solid Waste Facility Plan (SWFP) Type IV Change (2026 Type IV) Disclaimer:

SCS Engineers prepared this 2026 Type IV change on behalf of Mohave County, Arizona to modify portions of January 2011 SWFP for the Mohave Valley Landfill prepared by Vector Engineering, Inc. which was subsequently approved by the Arizona Department of Environmental Quality (ADEQ) as MFPA No. 08004600.02 (2011 SWFP). A majority of this document is straight restatement of the 2011 SWFP narrative, tables, figures, and appendices with no modification. For clarity and ease of review, Each section will include a 2026 Type IV Note statement to clearly indicate modifications, if any, have been made to the 2011 SWFP content.

BACKGROUND

The Mohave Valley Landfill (Landfill, Site, Facility, MVLF) began operating in January 1989 under Ground Water Quality Protection Permit No. G-0038-08, issued by ADEQ in April 1988. The facility was originally developed with a series of unlined, parallel trenches for disposal of non-hazardous municipal waste (MSW). The first six MSW trenches (Cells 001-006), located near the northeast corner of the Site, were excavated to depths of approximately 30–60 feet. An additional trench near the eastern boundary was used for wood and yard waste until its closure in early 1995. Dead animals were previously buried in narrow trenches along the northern boundary (Cell 008), but this practice ended in 1996 when those trenches were closed and dead animals began being disposed of at the active working face.

In 1988, three lined septic waste evaporation ponds were constructed in the northwest corner of the Site using the Best Achievable Demonstrated Control Technology (BADCT)and permitted under an Aquifer Protection Permit (APP) issued on August 24, 1998 (APP P-100330.00). The ponds have repermitted and reconstructed in 2015 under APP P-100330.01. However, those ponds stopped operation in 2021 due to liner failure. On November 21, 2023 ADEQ approved a permit amendment to replace the ponds with a new pond configuration under APP P-100330.02 which is anticipated for construction and restart of operations in 2026. This SWFP does not address design, operations, or monitoring of these ponds as these are stipulated and governed by the separate APP P-100330.02 which is provided in Appendix C-6.

Following the adoption of federal Subtitle D standards (40 CFR Part 258), a Solid Waste Facility Plan (SWFP) for MVLF was prepared in 1997 and approved by ADEQ in May 1998 under MFPA 08004600.00 (see Appendix C-2 for original plan approval). This approval included waivers from ADEQ to suspend any groundwater monitoring or liner system construction requirements at MVLF. Since that time construction of, and waste placement into, unlined Cells 9-12 has occurred. Additional regulatory approvals during this period included a methane remediation plan in 1998 and the site was designated as a Battery Collection (see Appendix C-4 for site registration) and Waste Tire Collection Site (See Appendix C-1 for site registration), with the tire storage area located at the southwest corner for the Facility.

ADEQ approved a Type IV Change to the SWFP revision in 2011, prepared by Vector Engineering, which increased maximum fill height, modified bottom grading, and reduced the waste footprint. These updates added approximately 1.35 million cubic yards of airspace, bringing the total permitted capacity to 14.95 million cubic yards closing in ~2078. Further Type III changes to the SWFP have been approved by ADEQ in 2016 to use vegetated waste as an alternative daily cover and in 2020

for minor changes to load inspection procedures (MFPA Nos. 08004600.03 and 08004600.04, respectively) (See Appendix C-3 for latest MFPA).

In 2019 the MVLF officially triggered the design capacity, in-place tonnage, and upper non-methane organic compound emissions limits of the Clean Air Act (CAA) New Source Performance Standards (NSPS) Subpart WWW requiring the installation of a landfill gas collection and control system (GCCS). The GCCS was installed over the constructed areas of the MVLF (Cells 1-9) at that time and began extracting disposing of landfill gas generated by the landfill in 2020. The GCCS was further expanded into Cells 10-12 in mid 2024.

On May 21, 2021, ADEQ issued a letter to the County revoking the 1997 waivers to groundwater monitoring and liner system requirements for future landfill developments predicating this 2026 Type IV change to the SWFP.

PURPOSE, SCOPE, AND APPLICABILITY

ADEQ and Arizona Revised Statutes (A.R.S.) §49-762 outline specific requirements for changes to SWFP. These requirements have been simplified into the "Municipal Solid Waste Landfill, Solid Wate Facility Plan Approval Amendment Application" form (Application Form). SCS has downloaded and completed the November 2024 edition of the Application Form and is provided enclosed with this 2026 Type IV SWFP change document.

The purpose of the 2026 Type IV SWFP Change is to:

- Define base grades to incorporate geosynthetic liner systems and leachate collection for future waste disposal development areas within currently permitted waste footprint area of the facility.
- Provide a leachate evaporation pond for management and disposal of leachate from the future geosynthetically lined wastes disposal areas.
- Define revised final waste grades to include a vertical expansion over the entire currently permitted waste footprint to maximize site life of the facility.
- Proposed revise base and final grades result in an overall design capacity increase of ~9,582,400 CY with an estimated site life gain of ~28-years and a projected closure in 2114.

Based on a review of the above proposed changes to the SWFP and prior discussion with the ADEQ this requested is considered a "Type IV" change as defined by Arizona Revised Statutes § 49-762.

ORGANIZATION OF THE 2026 TYPE IV SWFP CHANGE

This 2026 Type IV change to the MVLF SWFPR document has been compiled and organized to present a complete and accurate depiction current waste disposal operations at the Facility. This document has taken the 2011 SWFP verbatim and only made revisions to portions of that document text either to update information to reflect current site condition or as needed to demonstrate regulatory compliance or engineering soundness of the proposed revisions stated above. Changes to the section, or lack there of, will be noted at the top of each section. Information regarding the septage evaporation ponds are included for reference only which has a separate permit (APP P-0100330.02) with ADEQ.

1.0 GENERAL INFORMATION

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Pursuant to the requirements of the Arizona Revised Statutes (A.R.S.), the Arizona Administrative Code (A.A.C.), and the Code of Federal Regulations (CFR), the owner and operator of a Municipal Solid Waste Landfill (MSWLF) must provide information about the facility and its impact on and relationship to the surrounding area. The following section describes the specifics of the Mohave Valley Landfill including design, operations, capacity, ownership, service area, and location. In addition, the geophysical characteristics of the site and the region are identified, including climatology, vegetation, geography, transportation systems, land use, and population.

1.1 FACILITY NAME AND ADDRESS

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The name of the facility Mohave Valley Landfill. The landfill's physical address is:

Mohave Valley Landfill
3999 El Rodeo Road
Fort Mohave, Arizona 86426

1.2 GENERAL DESCRIPTION OF FACILITY OPERATIONS AND HISTORY

1.2.1 Description of Facility Operations

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update the current operator information.

The Mohave Valley Landfill (MVLF, Site, Facility, Landfill) is a municipal solid waste landfill located on a 160 acre parcel off El Rodeo Road, approximately 4.5 miles east of its intersection with Arizona State Route 95, in Fort Mohave, Mohave County, Arizona (see Figure 1). The junction of El Rodeo Road and Highway 95 is approximately two miles south of the Bullhead City limits. The landfill facility, which is designed and intended solely for the disposal of residential and commercial solid wastes, began operations in January, 1989. The location of the landfill is shown on **Figure 2**.

The facility is owned by the County of Mohave (County). The County contracts operations to a third party. The County periodically will advertise and accept bids for the operations contract. At the time of the writing of this 2026 Type IV the Landfill was being operated under contract by Gamby 360. In general the operator is responsible for operations and maintenance of the Landfill in compliance with this SWFP and associated approved MFPA. The facility accepts the following general waste categories for disposal:

- Household;
- Commercial;
- Institutional wastes;
- Septic tank waste;
- Grease trap wastes;
- Construction and demolition debris;
- Wood and yard waste; and

- Dead animals.

The principal sources of waste disposed at the site are residential, commercial, and recreational; there are no industrial facilities within the landfill service area. For a more detailed discussion of specific wastes that are accepted and their disposal methods, refer to **Section 5.0 Operations Plan**.

The hours of operation for the facility are from 7:00 am to 4:00 p.m., Monday through Saturday. The facility is closed on Sundays and Thanksgiving, Christmas, and New Year's Day.

1.2.2 Brief History of the Existing Facility

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update to reflect recent operational and permitting history.

The Mohave Valley Landfill was originally operated pursuant to the Ground Water Quality Protection Permit No. G-0038-08. The Ground Water Quality Protection Permit was issued to Mohave County by the Arizona Department of Environmental Quality (ADEQ) in April, 1988. The landfill did not commence operations, however, until January, 1989.

The site has been constructed with a series of unlined, parallel trenches used for the disposal of non-hazardous solid wastes from communities in western Mohave County. The first six existing municipal solid waste (MSW) disposal trenches trend in the east-west direction and are located adjacent to each other near the northeast corner of the facility. Five of the trenches were approximately 30 feet deep by 30 to 40 feet wide. The sixth MSW trench, began in a similar fashion, was excavated to a depth of approximately 60 feet. One additional trench was located in the central portion of the facility, near the eastern property boundary, was used for disposal of wood and yard wastes and its use was discontinued in early 1995. These were known as Cells 001-008.

Dead animal wastes were formerly disposed in narrow trenches excavated by a backhoe on an as-needed basis; dead animals are now disposed in the active working face of the municipal waste disposal cell. The dead animal trenches, which are located along the northern property boundary, were closed in January, 1996 with the placement of three feet of compacted native soil.

In 1988, three lined septic waste evaporation ponds were constructed in the northwest corner of the Site using the Best Achievable Demonstrated Control Technology (BADCT)and permitted under an Aquifer Protection Permit (APP) issued on August 24, 1998 (APP P-100330.00). The ponds have repermitted and reconstructed in 2015 under APP P-100330.01. However, those ponds stopped operation in 2021 due to liner failure. On November 21, 2023 ADEQ approved a permit amendment to replace the ponds with a new pond configuration under APP P-100330.02 which is anticipated for construction and restart of operations in 2026. This SWFP does not address design, operations, or monitoring of these ponds as these are stipulated and governed by the separate APP P-100330.02 which is provided in Appendix C-6.

Following the adoption of federal Subtitle D standards (40 CFR Part 258), a Solid Waste Facility Plan (SWFP) for MVLF was prepared in 1997 and approved by ADEQ in May 1998 under MFPA 08004600.00. Since that time construction of, and waste placement into, unlined Cells 9-12 has occurred. Additional regulatory approvals during this period included a methane remediation plan in 1998 and the site was designated as a Battery Collection and Waste Tire Collection Site, with the tire storage area located at the southwest corner for the Facility.

ADEQ approved a Type IV Change to the SWFP revision in 2011, prepared by Vector Engineering, which increased maximum fill height, modified bottom grading, and reduced the waste footprint.

These updates added approximately 1.35 million cubic yards of airspace, bringing the total permitted capacity to 14.95 million cubic yards. Further Type III changes to the SWFP have been approved by ADEQ in 2016 to use vegetated waste as an alternative daily cover and in 2020 for minor changes to load inspection procedures (MFPA Nos. 08004600.03 and 08004600.04, respectively).

In 2019 the MVLF officially triggered the design capacity, in-place tonnage, and upper non-methane organic compound emissions limits of the Clean Air Act (CAA) New Source Performance Standards (NSPS) Subpart WWW requiring the installation of a landfill gas collection and control system (GCCS). The GCCS was installed over the constructed areas of the MVLF (Cells 1-9) at that time and began extracting disposing of landfill gas generated by the landfill in 2020. The GCCS was further expanded into Cells 10-12 in mid 2024.

On May 21, 2021, ADEQ issued a letter to the County revoking the 1997 waivers to groundwater monitoring and liner system requirements for future landfill developments predicating this 2026 Type IV change to the SWFP.

1.3 OWNER AND OPERATOR INFORMATION

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update to reflect recent operations contractor.

The County of Mohave is the owner of the Mohave Valley Landfill. The County Department of Development Services has the responsibility of administering the landfill and the private contract under which it is operated. The County's principle contact person and address is as follows:

Mr. Luke V. Brazdys, Solid Waste Section Manager
Mohave County Development Services
3250 E Kino Ave, Kingman, AZ 86409
Kingman, Arizona 86409
Phone: (928) -757-0903 Fax: (928) 757-0936
Mailing Address:
Post Office Box 7000
Kingman, Arizona 86402-7000

The County contracts operations to a third party. The County periodically will advertise and accept bids for the operations contract. At the time of the writing of this 2026 Type IV the Landfill was being operated under contract by Gamby 360. In general the operator is responsible for operations and maintenance of the Landfill in compliance with this SWFP and associated approved MFPA. :

Mr. Jack Fiori, Chief Administrative Officer
Gambi 360
PO Box 3418
Kingman, AZ. 86402
Office Phone: (209) 481-3723

1.4 AGENT INFORMATION

2026 Type IV Note: This Section of the 2011 SWFP has been modified. References to Vector Engineering, Inc. have been replaced with SCS Engineers (SCS).

Assisting the owner and operator with preparation of this document and all supporting design calculations and other site information is SCS Engineers (SCS). SCS is a professional services engineering and planning firm under contract with Mohave County to prepare this application and to permit the landfill development planning and other activities at the Mohave Valley Landfill. The contact person and address of SCS's office where the project is being managed is as follows:

Mr. Michael Bradford, P.E.
SCS Engineers, 6100 S Maple Ave Suite 118, Tempe, AZ 85283
Phone: (602) 840-2596
Fax: (530) 272-8533

1.5 FACILITY INFORMATION

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave Valley Landfill is a municipal solid waste landfill located at Longitude 114°31'00" West, Latitude 35°01'28" North. The site is located within Mohave Valley, a northwest-trending alluvial valley adjacent to, and east of, the Colorado River. The landfill property is legally described as the NEV., Sec. 21, T 19 N, R 21 W, Gila and Salt River Baseline and Meridian. The location of the landfill is shown on Drawing G01 of the new permit drawing set in Appendix A.

Property location and ownership of the Mohave Valley Landfill is identified in Mohave County Assessor's Book 221 of the Records of Survey, page 33, Parcel No. 010. The site is owned by the County of

Mohave. All correspondence pertaining to the landfill should be addressed to the Mohave County Public Works Department.

1.5.1 Total Facility Acreage

2026 Type IV Note: This Section of the 2011 SWFP has been modified to updated drawing reference.

Property boundaries of the Mohave Valley Landfill encompass 159.9 acres and the proposed footprint for waste placement will ultimately occupy approximately 110.8 acres. This is a reduction of 6.8 acres from the original footprint presented in the May 1998 SWFP approval. The remaining 49.1 acres of site area will be utilized for access roads, drainage control systems, ponds, soil stockpiles, and other site facilities. The landfill footprint and existing conditions are shown on Drawing 3, Existing Conditions and Site Plan, of the new permit drawing set in Appendix A. The proposed final buildout of the site is presented on Drawing 6, Final Cover Grading Plan, of the new permit drawing set. The drawings are presented in Appendix A.

1.5.2 Population Base Served

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave Valley Landfill serves the western portion of Mohave County, Arizona and provides disposal capacity for a population of less than 100,000 people. The service area consists of the

communities of Bullhead City, Mohave Valley, Riviera, Ft. Mohave, Topock, Golden Shores, and other rural unincorporated areas of Mohave County located in the Colorado River Valley of Arizona.

1.5.3 Major Design Features

2026 Type IV Note: This Section of the 2011 SWFP has been revised in full to reflect the new design.

The Mohave Valley Landfill will construct future cells with a composite bottom liner and leachate collection and removal system (LCRS). This amendment does not propose any additional groundwater monitoring wells or new monitoring systems beyond those already required; the existing groundwater monitoring program remains unchanged. The prior technical justification (Vector, 1996) for suspending groundwater monitoring and composite liner requirements—approved with the SWFP on May 13, 1998 and referenced in ADEQ's November 19, 2004 approval—remains part of the facility's historical record but is superseded for future cell construction by this lined-cell design update. A copy of the 2004 SWFP Approval is provided in Appendix C.

The site was originally operated by the trench method in a series of parallel, unlined trenches. Going forward, waste placement will consist of a lateral expansion on the south side of existing unlined Cells 9, 10, 11, and 12, with a portion of the filling completed as vertical expansion over unlined cells within the approved footprint. Cover soil will be sourced from the stockpile west of Cells 9 and 10 and, if needed, from excavation within the southern cells see Drawing 3 in Appendix A.

Upon completion of filling in the current disposal cells, operations will expand laterally to the south after those areas are lined. Filling will proceed using the cut–line–fill method, beginning at the east end and advancing westward, with waste placed above grade in accordance with the approved final waste configuration, see Drawing 6, Final Cover Grading Plan, in Appendix A.

Areas into which disposal expands will be excavated to an average depth of approximately 100 feet below existing grade. A composite base liner system and LCRS will be installed as part of cell construction. Excavation side slopes will be constructed at 3H:1V, with 20-foot-wide benches to provide access for slope maintenance, run-off collection and diversion, and to enhance slope stability. Detailed slope design criteria, modeling results, are provided in Section 6.0 (Design Criteria).

A perimeter access road will be constructed at the base of fill to access all portions of the waste mass. Equipment access roads on the east, west, and south side slopes will serve the top deck. Additional site features include a pond, drainage diversion channel, waste-tire stockpile area, recycling areas, and excess soil stockpiles. These facilities are shown on the permit drawing set and discussed in detail in Section 6.0.

1.5.4 Climatology

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update climatological data and references.

Historical climatological data for the region indicate that the average annual precipitation at the Mohave Valley Landfill is approximately 5.4 inches per year (in/yr). This information is obtained from the Bullhead City weather station located approximately 8.5 miles north of the site. The data was collected during a 29-year period between 1999 and 2020 (NOAA NCEI 1991–2020 Climate Normals).

Temperatures in the Mohave Valley range from approximately 44° F to 85° F in the winter months, and 70° F to 112° F in the summer months. The area experiences an average of 135 days per year when temperatures exceed 100° F, and 2 days per year when temperatures drop below 32° F (NOAA NCEI 1991–2020 Climate Normals).

Average annual evaporation rates in the lower Colorado River corridor near the Mohave Valley Landfill are among the highest in the United States. Recent U.S. Geological Survey measurements for Lake Mohave, located along the Colorado River just downstream of Davis Dam, indicate an average annual free-water evaporation rate of approximately 67.6 inches per year for the period 2010–2019. These estimates are based on modern eddy-covariance and energy-balance methods and provide a more current and reliable characterization of regional evaporation than historic Class A pan data (Earp and Moreo, 2021).

The prevailing wind speed at the landfill can be estimated from the average annual wind speed measured at Bullhead City / Laughlin/Bullhead International Airport (KIFP), which is approximately 8 miles per hour. Operating experience at the landfill indicates that the prevailing wind direction is predominantly from north to south in the winter months and south to north in the summer months.

Summaries of the climatologic data presented in this section are included in Appendix B.

1.5.5 Local Vegetation and Geography

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The predominant vegetation in the vicinity of the Mohave Valley Landfill is Creosote Bush, White Bursage, White Brittlebush, and Triangle Bursage. The density of vegetative cover is typically less than ten percent.

The Mohave Valley Landfill is located within the Mohave Valley, a northwest-trending alluvial valley within the Basin and Range Physiographic Province. The primary geologic features in the landfill vicinity are the Black Mountains and the Mohave Valley Basin. According to the interpretation of the Geologic Map of Arizona (S.J. Reynolds, 1988) by Basin & Range Hydrogeologists, Inc., the Black Mountains are composed primarily of Oligocene to Miocene volcanic rocks. In addition, restricted outcrops of Tertiary Granite and Early Proterozoic rocks are present in places. The Black Mountains were elevated to their present position during the periods of intense faulting and erosional activities which resulted in the formation of the Basin and Range Physiographic Province during the Miocene and Pliocene epochs (Dickinson, 1989). Site soils and regional geology are presented in Section 7.0 of this SWFP.

1.5.6 Adjoining Land Uses

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The adjoining lands are publicly owned open-range parcels, with a zoning designation of RE10A (residentiaUrecreation-10 acre minimum), according to the Mohave County Planning and Zoning Department. The primary land use of the surrounding area is open range, mining, and grazing. Parcels immediately to the north and east of the site are administered by the U.S. Department of the Interior, Bureau of Land Management (BLM), whereas parcels to the immediate south and west of the site are owned by the State of Arizona. The nearest structures are located approximately 3.5 miles to the west of the site.

1.5.7 Drainage Characteristics of the Facility

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update to reflect current drainage design and features

The Mohave Valley Landfill is situated on a broad alluvial fan and topography in the vicinity is represented by very uniform terrain with multiple braided washes typical of the region. The site has a gradual slope of approximately three percent that trends from northeast to southwest. Site topography exhibits subtle undulations in the north-south direction resulting from a series of minor washes that cross the site and follow the general southwest trend of surface slopes. The site is traversed by two major washes which have been identified by the U.S. Army Corps of Engineers to be within their jurisdictional limits under Section 404 of the Clean Water Act. The approximate limits of these washes, located at the northwest corner of the site and through the central portion of the site, are presented on Drawing 2 of the original permit drawing set, included in Appendix A.

Stormwater run-on from off-site washes will be collected and controlled through construction of a diversion ditch and basin along the south-eastern property boundary. Run-on diversion ditch and basin will be constructed along the east side of the landfill within the current BLM property. This design was completed by Kimley-Horn.

Construction of drainage facilities to control run-off from landfill surfaces will progress throughout the active life of the Mohave Valley Landfill; configuration of the final drainage control network is presented on Drawing 7, Stormwater Management Plan. Drainage channels will be constructed adjacent to site access roads around the perimeter of the waste footprint to collect stormwater from side slope surfaces. The top deck of the waste fill will be constructed to slope from east to west. The site drainage control system will collect stormwater run-off and route it by means of swales, ditches, culverts, and down-drains to perimeter channels along the toe of the landfill. Run-off will then be routed to the southwest corner of the site and into a basin to settle out sediment loads before discharging into natural channels downstream.

All open channels will be lined with rip-rap, erosion matting, geotextile, or other suitable materials proven to minimize erosion from concentrated flows. Tee or elbow sections will be installed on all down-drains to dissipate energy prior to culvert discharge. Paved or rip-rap aprons will be provided at the discharge of each culvert to dissipate energy and minimize erosion at the outlet.

1.5.8 Design Capacity and Site Life

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the revised design capacity and projected site life.

As part of this revised SWFP, the design capacity of the landfill has increased by approximately 9,582,400 cubic yards, or about 60 percent, relative to the 2011 SWFP. In the 2011 SWFP, the total permitted airspace for the site was calculated as 14,950,100 cubic yards. Using the most recent topographic survey dated February 5, 2024, the estimated waste airspace placed to that date is 3,490,000 cubic yards, and the remaining volume between the proposed top of waste surface and the combination of the February 2024 topography and the proposed top-of-protective-layer surface is 21,042,400 cubic yards. The resulting total design capacity is therefore 24,532,400 cubic yards as of February 5, 2024.

Disposal rate calculations have been prepared to estimate the expected date of final receipt of waste at the Mohave Valley Landfill. Based on the parameters described in Section 9.0, Closure and Post-Closure Plans, the remaining site life of the landfill is approximately 88 years from the

topographic survey date. Final receipt of waste will take place around 2114 under the current filling and daily cover operation. Remaining capacity, site life, and soil balance calculations are presented in Appendix D.

1.6 LOCATION MAP

2026 Type IV Note: The entirety of Section 1.6 and subsections of the 2011 SWFP has not been modified.

A site location map is included on the following page as Figure 2. The location map presents the facility location relative to the closest population centers and transportation systems, and is further described in the following sub-sections.

1.6.1 Latitude and Longitude

The Mohave Valley Landfill is a municipal solid waste landfill located at Longitude 114°31'00" West, Latitude 35°01'28" North.

1.6.2 Direction from a Major Existing Roadway

The Mohave Valley Landfill is located on El Rodeo Road, approximately 4.5 miles east of its intersection with Arizona State Route 95, in Mohave County, Arizona.

1.6.3 Proposed Service Area

Refer to Section 1.5.2, Population Base Served, of this SWFP for the service area.

1.6.4 Location of the Closest Population Centers

The Mohave Valley Landfill is located approximately four miles east of the Fort Mohave Indian Reservation and ten miles south of Bullhead City, Arizona.

1.6.5 Transportation Systems

The Mohave Valley Landfill is located approximately 4.5 miles east of Arizona State Route 95. There are no airport runway ends used by turbojet aircraft within 10,000 feet or runway ends used by piston-type aircraft within 5,000 feet of the property boundaries. The commercial airport in closest proximity to the facility is the Laughlin/Bullhead International Airport, located at the north end of Bullhead City, approximately 10 miles to the north. A private airport, the Sun Valley Airport, is located approximately 2.5 miles to the west. The closest railway is approximately 15 miles to the west and 20 miles to the south, adjacent to Interstate 40.

1.7 AERIAL PHOTOGRAPH

2026 Type IV Note: This section has been modified to update the site topography information to reflect the current topographic survey and to revise the drawing reference from Drawing G03 to Drawing 3.

An aerial photograph of the Mohave Valley Landfill, dated November 11, 2024, was prepared by Firmatek Company. A photograph overlain by topographic contours is included as Drawing 3. The photograph is presented at an approximate scale of 1":150', and coverage extends beyond property boundaries by a minimum of 500 feet.

1.8 VICINITY MAP

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave Valley Landfill is shown in relation to its immediate surrounding area and regional setting on both preceding Figure 2 and on Drawing 1, Title Page. The area within three miles of facility property boundaries is delineated on Figure 2. Features in the vicinity of the site are described in the following sub-sections.

1.8.1 Area within One Mile of the Facility

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The area within one mile of the facility is shown on Drawing 1, Title Page. The immediately surrounding area is typical of the southwest desert: dry, open, and relatively flat terrain with minimal vegetation. No significant structures, wells, or other improvements are located within one mile of the facility.

1.8.2 Adjacent Zoning Arid Land Use

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The landfill parcel and adjacent areas are zoned RE10A (Residential/Recreation-10-acre minimum) by the Mohave County Planning and Zoning Department. The surrounding parcels are publicly owned open range. Those to the immediate north and west of the site are administered by the U.S. Department of the Interior, Bureau of Land Management (BLM), whereas those to the south and west are owned by the State of Arizona. The primary land use of the surrounding area is open range, mining, and grazing. Although landfill operation is not an appropriate land use within the RE10A zoning designation, the County considers the facility to be an essential government function and, therefore, exempt from local zoning regulations. This issue was addressed during permitting of the County's Cerbat Landfill and the County attorney provided opinion that cites two Arizona case studies setting this precedence; zoning documentation is included in Appendix C of this SWFP.

1.8.3 Access Roads, Bridges, and Railroads

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave Valley Landfill is located one-half mile north of El Rodeo Road, which intersects State Route 95 approximately 4.5 miles to the west of the facility. Access to the facility is via a paved road from El Rodeo Road, which enters the site at the southeast corner of the property boundary. No bridges are present in the vicinity of the facility and the closest railway is approximately 15 miles to the west and 20 miles to the south, adjacent to Interstate 40.

1.8.4 Airports Within 10,000 feet of the Facility

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

There are no airport runway ends used by turbojet aircraft within 10,000 feet or airport runway ends used only by piston-type engine aircraft within 5,000 feet of the facility property boundaries. The commercial airport in closest proximity to the facility is the Laughlin/Bullhead International Airport, located approximately 10 miles to the north in Bullhead City. Sun Valley Airport is a private airport located approximately 2.5 miles to the southwest of the landfill. Locations of the airports in relation to the landfill are identified on Figure 2 in Appendix A.

1.8.5 Floodplains within One-Half Mile of the Facility

2026 Type IV Note: This Section of the 2011 SWFP has been updated based on current FEMA FIRM information and drainage controls.

The majority of the Mohave Valley Landfill is located in areas designated Zone X (minimal flood hazard) and Zone D (areas of undetermined flood hazard) by the Flood Insurance Rate Map (FIRM) for the immediately surrounding vicinity. A small portion of the landfill property on the south side of the facility is located within Zone AO (flood hazard areas of shallow flooding without specified base flood elevations). Floodplain information in the vicinity of the facility is delineated on FIRM Community Panel No. 4770 of 6700, produced by the Federal Emergency Management Agency (FEMA). As shown on the existing site drawings, site topography in this area places the landfill waste footprint above the 100-year flood elevation such that it is not inundated by the 100-year flood. In addition, a run-on diversion channel will be constructed on the east and south sides of the site to prevent washout of solid waste. Floodplain delineation for the site and vicinity is reproduced on Figure 3 in Appendix A.

In addition, no part of a facility may be located within one-half mile of a 100-year floodplain having flows greater than 25,000 cubic feet per second (cfs). The floodplain delineated on Figure 3 does not contain flows exceeding 25,000 cfs.

1.8.6 Surface Water Courses, Wetlands, and Ground Water Wells

2026 Type IV Note: This Section of the 2011 SWFP has been revised to reflect current ADWR well records and site drainage features.

The Mohave Valley Landfill is traversed by two ephemeral washes that flow in a west to south-west direction during periods of heavy rainfall. Run-on flows will be intercepted and controlled by an off-site run-on diversion ditch and basin constructed along the eastern property boundary of the facility. The ditch and basin will divert flows to the southeast corner of the site, then route them into a culvert; flows will be discharged into existing off-site natural drainage channels at the south and west property boundaries.

A wetland is an area that consists of swamps, marshes, bogs, or any area inundated or saturated by ground water and surface water at a frequency and duration sufficient to support vegetation adapted for life in saturated soil conditions. The Mohave Valley Landfill is not located III an area designated, or likely to be designated, a wetland. There are no ground water monitoring or domestic wells within one-half mile of the facility. According to current Arizona Department of Water Resources (ADWR), three wells owned by Mohave County are located within approximately 1.5 miles of the Mohave Valley Landfill. All three wells are located in Township 19 North, Range 21 West, Section 21, and were drilled to a maximum depth of approximately 640 feet. ADWR records indicate that no groundwater was encountered in these wells to the maximum drilled depth. The location of the well is shown on Figure 2 in Appendix A of this SWFP.

1.8.7 Historic Sites

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

There are no identified or known historical sites located within one mile of the facility. The site was cleared for historical significance by an archaeologist prior to initiating landfill operations. This issue is further addressed in Section 4.2 of this SWFP.

1.8.8 Other Existing or Proposed Significant Features

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

No other man-made, natural, or other significant features exist within one mile of the facility. The extent of future development is not known at this time.

1.9 ACKNOWLEDGMENTS AND AUTHORIZED SIGINATURE

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect current County and Operator staff.

To the best of their knowledge, the County of Mohave has complied with all applicable local regulations and ordinances relative to the construction and operation of the Mohave Valley Landfill. The information submitted in this application is true, accurate, and complete to the best of their knowledge and belief. The County of Mohave will grant site access to the operations contractor and Mohave County forces as necessary to conduct any closure or post-closure care once the operation of the landfill has ceased. Mr. Luke Brazdys, P.E., is authorized to sign this permit application on behalf of the County of Mohave, the owner of the Mohave Valley Landfill. Mr. Jack Fiori is authorized to sign this permit application on behalf of Gambi 360 the operations contractor for the County at the Mohave Valley Landfill at the time of the preparation and submittal of this Type IV SWFP Change application.

2.0 LOCATIONS RESTRICTIONS

2026 Type IV Note: The proposed modifications to the base and final grades of the Mohave Valley Landfill do not include any change to the currently permitted waste disposal footprint, thus the location restrictions have not been reevaluated only updated to reflect current data as available.

Arizona Revised Statutes (ARS) sections 49-767 and 49-772 and 40 CFR 258 provide location restrictions to address the potential effects that a municipal solid waste landfill may have on the surrounding environment, as well as the effects that existing natural and man-made conditions may have on the performance of the landfill. Owners or operators must demonstrate that the location restriction criteria either do not apply or have been addressed in the design of the facility. These restrictions, as they apply to the Mohave Valley Landfill, are addressed below.

2.1.1 Irrigation Grandfathered Rights

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Arizona Department of Water Resources (ADWR) was contacted regarding water rights for the landfill property, in accordance with ARS 49-772(A)(1). A review of ADWR records indicate that the site is not within an Active Management Area and that there are no irrigation grandfathered rights appurtenant to any portion of the site.

2.1.2 Floodplains

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update based on current FEMA FIRM information.

As mentioned previously, requirements of A.R.S. 49-772.A.2 and 40 CFR 258.11 state that if a new or existing landfill, or lateral expansion to an existing landfill, is located in a 100-year floodplain, the owner or operator must demonstrate that the waste management unit will not restrict the flow, reduce the temporary water storage capacity of the 100-year floodplain, or result in a washout of solid waste. In addition, no part of a facility may be located within one-half mile of a 100-year floodplain having flows greater than 25,000 cubic feet per second (cfs).

The majority of the Mohave Valley Landfill is located in areas designated Zone X (minimal flood hazard) and Zone D (areas of undetermined flood hazard) by the Flood Insurance Rate Map (FIRM) for the immediately surrounding vicinity. A small portion of the landfill property on the south side of the facility is located within Zone AO (flood hazard areas of shallow flooding without specified base flood elevations). Floodplain information in the vicinity of the facility is delineated on FIRM Community Panel No. 4770 of 6700, produced by the Federal Emergency Management Agency (FEMA). As shown on the existing site drawings, site topography in this area places the landfill waste footprint above the 100-year flood elevation such that it is not inundated by the 100-year flood. In addition, a run-on diversion channel will be constructed on the east and south sides of the site to prevent washout of solid waste. Floodplain delineation for the site and vicinity is reproduced on Figure 3 in Appendix A.

2.1.3 Airport Safety

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

As specified by 40 CFR 258.10, if a landfill waste management unit is located within 10,000 feet of any airport runway end used by turbojet aircraft, or within 5,000 of any airport runway end used only

by piston-type aircraft, the landfill owner or operator must demonstrate that the units are designed and operated so that the facility does not pose a bird hazard to aircraft. The criteria for airports identified by this location restriction are limited to those that are open for use to the public. There are no airports used by turbojet aircraft within 10,000 feet, or airports used by piston-type aircraft within 5,000 feet, of the Mohave Valley Landfill. Therefore, the facility satisfies the airport safety requirement. The airports in closest proximity to the facility are the Laughlin/Bullhead International Airport, located in Bullhead City, Arizona, approximately 10 miles to the north, and the Sun Valley Airport, a small private airport, located approximately 2.7 miles to the west of the landfill. The approximate location of each airport is presented on Figure 2, Location Map in Appendix A of this SWFP.

2.1.4 Wetlands

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

New or existing landfills, or any lateral expansion of an existing landfill, may not be located in a wetland unless specific demonstrations are made as specified in the regulations established by 40 CFR 258.12.

There are no areas within or adjacent to the property that are inundated or saturated with ground or surface water at a frequency and duration sufficient to support vegetation that requires saturated soil conditions. Available borehole data from site hydrogeologic investigations suggest that unsaturated conditions exist to depths greater than 280 feet beneath the landfill. In addition, there are no tidal areas, saturated zones, or perennial streams on or adjacent to the facility property. As a result, the Mohave Valley Landfill is not located in an area designated, or likely to be designated, a wetland.

2.1.5 Fault Areas

2026 Type IV Note: This Section of the 2011 SWFP has been modified to (i) update the Arizona Revised Statutes citation from A.R.S. 49-772(D)(1) to A.R.S. 49-772(E)(1) for fault-area location restrictions, and (ii) update the U.S. Geological Survey reference to the current Quaternary Fault and Fold Database / Interactive U.S. Fault Map.

In accordance with the requirements of Arizona Revised Statutes (ARS) 49- 772(E)(1) and 40 CFR 258.13, the owner or operator of a new or existing landfill, or lateral expansion to an existing landfill. must demonstrate that no waste management units are located within 200 feet of a Holocene-era fault, or if it is, that the structural integrity of the facility will not be damaged with an alternate setback distance and that the public health and the environment will be protected.

A review of the United States Geological Survey (USGS) Quaternary Fault and Fold Database indicates that Holocene-era faults are not present in the immediate vicinity of the Mohave Valley Landfill. Therefore, the facility satisfies the fault setback criteria.

2.1.6 Seismic Impact Zones

2026 Type IV Note: This Section of the 2011 SWFP has been modified to (i) update the statutory citation from A.R.S. 49-772(D)(2) to A.R.S. 49-772(E)(2), (ii) reflect the revised landfill design that now includes a composite base liner and leachate collection and removal system (LCRS), and (iii) document that a new slope

stability report prepared by SCS Engineers using current geotechnical data has been added to Appendix E.

Requirements of ARS 49-772(E)(2) and 40 CFR 258.14 state that a new or existing landfill, or lateral expansion to an existing landfill, may not be located in seismic impact zones unless the owner or operator can demonstrate that all containment structures are designed to resist the maximum horizontal acceleration in lithified earth material expected for the site. A site is within a seismic impact zone if there is a probability of 10 percent or greater that the maximum horizontal acceleration will exceed 0.1 g in 250 years. Maximum horizontal acceleration is defined as the maximum expected horizontal acceleration listed on a seismic hazard map, with a 90 percent or greater probability that the value will not be exceeded in 250 years. Alternatively, maximum expected horizontal acceleration can be based on a site-specific seismic risk assessment.

A site-specific risk assessment was performed as part of this SWFP. As a result, it was determined that the Mohave Valley Landfill lies within a seismic impact zone with a maximum expected horizontal acceleration of approximately 0.14g. A discussion regarding the risk assessment and determination of this value is provided in Appendix E.

The principle seismic concern during landfill operations is the stability of the refuse at the liner system interface. Ensuring the stability of the refuse and liner system will preserve the integrity of the leachate collection system, surface drainage structures, and additional containment systems. The proposed design for the Mohave Valley Landfill includes a composite base liner and leachate collection and removal system (LCRS).

However, pursuant to the requirements of ARS 49-772(E)(2) and 40 CFR 258.14, waste management units at the site and their appurtenances, including all excavation and fill slopes and the drainage collection system, have been designed to withstand the maximum expected seismic event. A discussion of the various slope stability analyses performed to confirm the enclosed design is presented in Section 6.0 of this SWFP and a complete detailed study is presented in Appendix E. In addition, there are no adjacent natural or man-made slopes, embankments, or structures that pose a seismic related stability risk to any waste management units. SCS Engineers performed a new slope stability analysis using 2011 SWFP geotechnical data for the proposed geometry of the base and final grades and the summary report is included at the end of Appendix E.

2.1.7 Unstable Areas

2026 Type IV Note: This Section of the 2011 SWFP has been modified to revised precipitation and groundwater information based on current data.

Pursuant to the requirements of 40 CFR 258.15, the owner or operator of a landfill that is located in an unstable area must demonstrate that engineering measures have been incorporated into the design to ensure that the integrity of the structural components for the waste management units will not be disrupted.

To satisfy these requirements, factors that could potentially affect the stability of the landfill site were assessed. The property is situated on a west sloping alluvial fan terrace within the Mohave Valley, a gently sloping, northwest-trending alluvial valley. Sedimentary deposits underlying the site include a basal Miocene fanglomerate consisting of cemented sands, gravels, and silts; the Pliocene Bouse Formation which consists of clays, limestones, and tufas; and, Pliocene/Holocene alluvium consisting of gravels, sands, silts, and clays deposited by the Colorado River and its tributaries. Surface soils are predominantly composed of clean, well graded sand with gravel and silt. There is a low shrink swell potential, and as a result, differential settlement is not considered to be a problem.

The primary geologic features in the vicinity are the Black Mountains to the east and the Mohave Valley Basin. There is no potential rockfall at the site.

The landfill region experiences a mean annual precipitation of approximately 5.4 inches and the depth to ground water at the site is estimated to be 640 feet or greater, are discussed in further detail in Section 1.8.6 of this SWFP. Therefore, slope failure due to soil liquefaction or ground water seepage is unlikely.

Stability analyses were performed for several critical slope configurations for both cut and waste fill surfaces, including temporary and final design conditions. The results of the stability analyses, included in Appendix E, indicate that the proposed slopes and benching increments are sufficient to maintain stability with an adequate factor of safety. The proposed design of cut and fill slopes, and their analysis for slope stability, are discussed in further detail in Section 6.0 of this SWFP.

3.0 ADMINISTRATIVE DEMONSTRATIONS

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Regulatory requirements of the Arizona Revised Statutes (ARS), the Arizona Administrative Code (AAC), and the Code of Federal Regulations (CFR), specify that the owner or operator of a municipal solid waste landfill must demonstrate that they are financially and technically capable of meeting the conditions required for the daily operation, closure construction, and post-closure maintenance care at the facility. In addition, the applicant must demonstrate authority to operate at the proposed site. These administrative requirements and how Mohave County and the operator have met their compliance are addressed below.

3.1 FINANCIAL ASSURANCE REQUIREMENTS

2026 Type IV Note: The entirety of Section 3.1 and subsections of the 2011 SWFP has not been modified.

Pursuant to ARS. 49-770, the County of Mohave and Gamby 360, the owner and operator of the Mohave Valley Landfill, respectively, are aware that they may not operate at the site unless financial responsibility has been demonstrated for closure and post-closure maintenance, and any necessary corrective action as a result of known releases from the facility. Financial planning tasks have been initiated to ensure that adequate funding is in place to satisfy the financial assurance requirements as contained in 40 CFR 258.71 through 258.73, et. seq., and ARS.49-770.

3.1.1 Closure Costs

As waste placement is brought up to final design grades, a series of parallel ridges and swales will be developed on the top deck of the Landfill Current plans specify that the site will be closed in phases and final cover will be placed within each ridge-and-swale system as disposal activities expand to the south. At the completion of disposal activities in a given area, the landfill will be properly closed in accordance with the approved facility closure plan. This plan is described in Section 9.3 of this SWFP. A detailed estimate of closure construction costs for the largest area expected to receive final cover at any one time has been prepared. In accordance with 40 CFR 258.71, the closure cost estimate has been updated annually to account for inflation and adjust the estimate, as applicable, or if any changes are made to the closure plan. A copy of the current closure cost estimate is provided in Appendix L of this SWFP.

3.1.2 Post-Closure Maintenance Costs

Following closure of the entire landfill, the owner or operator will conduct post closure inspection and maintenance activities to ensure that the integrity of the environmental controls and monitoring systems installed at the site is maintained. Post-closure activities will be conducted in accordance with the approved Post Closure Maintenance Plan prepared for the facility. This plan is included in Section 11.4 of this SWFP. Pursuant to regulatory requirements, post-closure maintenance will continue for a period of 30 years following final closure of the site. A detailed estimate of the anticipated costs associated with performing post-closure maintenance activities at the facility has been prepared and is included with the plan. A copy of the current post closure cost estimate is provided in Appendix L of this SWFP.

3.1.3 Financial Assurance Mechanism

A financial assurance package demonstrating that Mohave County is able to meet the costs associated with closure construction, post-closure maintenance, and any necessary corrective

actions at the facility, has been prepared in accordance with ARS 49-761.1. The County currently assesses a fee, included in the disposal rates established for the facility, the proceeds from which are set aside specifically for closure and post-closure costs. This fee, which was based on the County's estimate for closure and post-closure costs, may be adjusted during the operational life of the project. The County performs a "Financial Test" annually to demonstrate its ability to provide sufficient funds for closure and post-closure. A copy of the current financial assurance documents are provided in Appendix L of this SWFP.

3.2 TECHNICAL CAPABILITY

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect current landfill operator and the County's process for selection of the contract operator for Mohave Valley Landfill.

The owner or operator of a landfill must demonstrate that they are technically capable of constructing and operating the facility in accordance with the approved plans and specifications addressed in this SWFP.

The County is not technically capable of operating the Mohave Valley Landfill. This is why the County contracts operations to a third-party contractor of Mohave Valley Landfill. Periodically, the County will hold a public bid process for selection of a qualified operations contractor to perform operations and maintenance of the Mohave Valley Landfill. In 2025, the County held such a bid and Gambi 360 was selected as the most qualified respondent to perform operations of the Mohave Valley Landfill.

3.2.1 Professional Licenses and Certificates

The Operations Manager and designated personnel responsible for landfill operations are required to maintain appropriate safety and operational certifications. The Operations Manager and a designated alternate have completed 40-hour OSHA HAZWOPER training and maintain certification through annual 8-hour refresher courses.

Personnel involved in waste inspection, hazardous waste screening, and landfill operations are trained in hazardous material identification, handling procedures, and safety requirements in accordance with the facility Operating Plan.

3.2.2 Professional Training Relevant to Solid Waste Facilities

Facility personnel are trained in accordance with the site Operating Plan, which includes procedures for waste acceptance, inspection, disposal operations, safety, recordkeeping, and emergency response.

Training includes:

- Health and safety procedures and PPE
- Recordkeeping and inspection procedures
- Emergency response actions

Personnel receive initial training and periodic refresher training to maintain compliance with regulatory and operational requirements. Training records are maintained at the facility and available for review.

3.2.3 Work Experience Relevant to Solid Waste Facilities

Gambi 360 personnel have extensive experience in landfill operations and solid waste management.

- Kevin Basso has over 30 years of experience managing landfill operations, including cell construction, liner systems, and environmental compliance.
- Tim Brown has approximately 19 years of experience in landfill operations, including equipment operation, site management, and regulatory compliance.
- Dave Vaccarezza has over 50 years of experience in the waste and recycling industry, including management of large-scale operations.

Experience includes landfill operations, waste placement and compaction, environmental monitoring, and compliance with applicable federal, state, and local regulations.

3.3 OTHER INFORMATION

2026 Type IV Note: Section 3.3 and subsections of 3.3 of the 2011 SWFP have not been modified.

Additional demonstrations regarding proper site usage and notifications, as required by A.R.S. 49-109, 49-767, and 49-771, are addressed in this section.

3.3.1 Land Lease Agreements

The Mohave Valley Landfill is owned by Mohave County and operated under contract by Gamby 360. No land lease agreement currently exists on the landfill property, as the County is the owner of record, so recorded in the Mohave County Assessor's Office, Book 221, page 33, Parcel No 010. Mohave County is actively pursuing obtaining property from the U.S. Bureau of Land Management (BLM) in order to construct the runon diversion structures to the east of the landfill. A copy of the County's latest correspondence with the BLM is provided in Appendix C-7.

3.3.2 Notification of Owner

This item is not applicable since the owner is the permit applicant.

3.3.3 Certificate of Disclosure

In accordance with the disclosure certification requirements specified in ARS. 49-109, Mohave County acknowledges that to the best of their knowledge, no person is engaged in activities described and subject to solid waste regulations who has been convicted of a felony, or has been subjected to any civil proceedings to an injunction, decree, judgment or permanent order of any state or federal court relating to any portion of this section.

3.3.4 Public Agency Demonstrations

The Mohave County Department of Public Works issued a notice to all property owners within a three-mile radius of the then-proposed landfill property boundary on January 7, 1987. The notice informed the adjacent property owners of the County's intent to purchase, site, and operate a county solid waste disposal facility near their property, and served as notice of a public meeting held to identify public concerns over the proposed use of the site as a landfill. Mohave County also issued a notice to the public published on January 9 and 16, 1987 making the same information available to

all interested parties. Subsequently, the Mohave County Board of Supervisors ratified the establishment of the El Rodeo Road property as one of two landfill sites in a special public meeting on March 23, 1987. Minutes from the special meeting are included in Appendix C-7, together with copies of both notices and correspondence between the Mohave County Department of Public Works and the Arizona Department of Revenue regarding a list of property owners within a three-mile radius of the landfill boundary.

3.3.5 Restrictive Covenant

In accordance with A.R.S. 49-771, a restrictive covenant must be placed on the disposal area of a waste management facility, and a certified copy must be forwarded to ADEQ. The County of Mohave has placed a restrictive covenant on the deed to the Mohave Valley Landfill property stating that the site has been used as a landfill facility and that its future use is restricted under 40 CFR 258.61(C)(3). A copy of the restrictive covenant has been placed in the facility operating record at the offices of the Mohave County Department of Public Works, and ADEQ has been notified that the notation was placed on the deed. A copy of the restrictive covenant is included in Appendix C-8 of this SWFP.

4.0 OTHER APPROVALS/DEMONSTRATIONS

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Prior to receiving permit approval from ADEQ to construct and operate lateral expansions at the Mohave Valley Landfill, Mohave County and the operator are required to demonstrate that all applicable regulatory approvals, permits, applications, and notifications have been submitted or obtained from the appropriate agencies. These requirements and how they have been met by the County and the operator are discussed in detail below.

4.1 ARCHAEOLOGICAL CLEARANCE

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

In accordance with A.R.S. 41-861 through 41-864 the property shall be reviewed for archaeological and historical significance prior to landfill construction and permit approval by ADEQ. Archeological clearance requirements were met by the County of Mohave prior to the purchase of the facility property and subsequent use as a Landfill An archaeological field investigation conducted by staff from the Arizona State Museum on September 15 and 16, 1987 determined that there were no significant features remaining on-site. A letter from Arizona State Museum staff recommending clearance of the site is included in Appendix C-9.

4.2 ZONING AND/OR SPECIAL USE PERMIT

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave County Planning and Zoning Department has designated the landfill property with zoning classification RE10A, or Residential/Recreational-10-acre minimum. The County contends that since the landfill property is owned by the County, it is not subject to zoning restrictions relating to land use. The County maintained the same contention for the Cerbat Landfill and submitted a supporting demonstration to ADEQ, a copy of the demonstration is included in Appendix C-10.

4.3 DRAINAGE DIVERSION

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect currently proposed run-on diversion structures recently designed in 2025.

The site has a gradual slope of approximately three percent from northeast to southwest, with two ephemeral washes traversing the site in the northwest corner and through the central portion of the property. These washes have been delineated by the U.S. Army Corps of Engineers as being within their jurisdictional limits under Section 404 of the Clean Water Act. The washes are discussed in further detail below in Section 4.8. The Original 1997 Permit (MRPA 08004600.00) provided the designs and approval for a run-on stormwater diversion channel in which storm water run-on from minor off-site washes will be intercepted and diverted around the site through construction of a diversion channel along the eastern and southern property boundaries returning to their approximate original paths at the southern and western property boundaries. This channel was never constructed. In 2025, the County contracted with Kimley-Horn, to redesign the run-on intercept channel which has been designed to handle flows resulting from a 100-year, 24-hour storm event to be constructed along the east side of the landfill. Flows into this proposed channel will be detained in a storage basin at the southeast landfill property corner, overflows will be attenuated to the west and back into their approximate original paths. A copy of a letter from the local floodplain administrator, the Mohave County Public Works Department, approving of the flow diversion is included in Appendix C-5. A more detailed discussion of the diversion channel design is included in

Section 6.0, Design Criteria. Design drawings and calculations for the proposed Kimley-Horn channel and basin are provided in Appendix J.

4.4 WELL DRILLING REGISTRATIONS

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update information based on the most recent Arizona Department of Water Resources (ADWR) records.

There are no ground water monitoring or domestic wells within one-half mile of the facility. According to current Arizona Department of Water Resources (ADWR), three wells owned by Mohave County are located within approximately 1.5 miles of the Mohave Valley Landfill. All three wells are located in Township 19 North, Range 21 West, Section 21, and were drilled to a maximum depth of approximately 640 feet. ADWR records indicate that no groundwater was encountered in these wells to the maximum drilled depth. The location of the well is shown on Figure 2 in Appendix A of this SWFP.

4.5 OPEN BURN PERMIT

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

No open burning occurs, or 1S allowed to occur, at the Mohave Valley Landfill. Therefore, an Open Burn Permit (OBP) is not required from the ADEQ Office of Air Quality. Should any burning be conducted at the site, a permit will be obtained from the appropriate authority and burning will be performed in accordance with any applicable restrictions.

4.6 ENDANGERED PLANTS AND SPECIES

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Prior to purchasing the property, both the Arizona Game and Fish Department and U.S. Fish and Wildlife Service were contacted by Mohave County regarding potential endangered plants and species at the site. No endangered plants or species have been identified at the site. A copy of the response letter from the Arizona Game and Fish Department is included in Appendix C-11.

4.7 SECTION 404 PERMIT/ADEQ 401 CERTIFICATION

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The U.S. Army Corps of Engineers has been contacted regarding site permit requirements under Section 404 of the Clean Water Act for the lateral expansion of the Mohave Valley Landfill. A copy of the letter requesting a status determination and delineation of jurisdictional limits is included in Appendix C-12. The Corps investigation concluded that two ephemeral washes identified on-site are within their jurisdiction and that 404 permit approval. The location of these washes are identified on Drawing 2 of the original permit drawings provided in Appendix A. The wash in the northwest corner of the site is not expected to be impacted by landfill operations, but the branched wash that traverses the middle of the property will be eliminated. A Section 404 permit and an Arizona 401 certification were subsequently obtained and are provided in Appendix C-13.

4.8 NPDES STORMWATER PERMIT

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

A Notice of Intent (NOI) was prepared and submitted to ADEQ by the County in June 1996 to bring the site into compliance with storm water permitting requirements under the National Pollutant Discharge Elimination System (NPDES). A copy of the NOI is included in Appendix C-14. In addition, a Storm Water Pollution Prevention Plan (SWPPP) has been prepared and implemented at the landfill. The SWPPP is maintained in the facility operating record. The goals for storm water management at the Mohave Valley Landfill are to: 1) minimize run-off contact with facility operations and collection sites; 2) retain storm water on-site when possible to promote evaporation; and, 3) route all run-off that is not retained on-site through a sedimentation basin prior to off-site discharge. Monitoring reports will be submitted to ADEQ in accordance with permit requirements. A copy of the current SWPPP is provided in Appendix M.

4.9 NEW SOURCE PERFORMANCE STANDARD (NSPS) & EMISSION GUIDELINES (EG)

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the Facility's current Gas Collection and Control System and associated air permitting.

The Mohave Valley Landfill began accepting municipal waste in January 1989, and is therefore subject to the standards of performance for stationary sources (40 CFR Parts 51, 52, and 60) promulgated by the United States Environmental Protection Agency (EPA). The facility's ultimate waste capacity resulting from the Design Drawings (Appendix A) exceeds the EPA-specified limit of 2.5 million cubic meters that requires compliance with the provisions of Clean Air Act's New Source Performance Standards (NSPS), Subpart WWW (40 CFR 60.752(b)). In 2019 the MVLF officially triggered the in-place tonnage (40 CFR 60.752(b)) and the upper non-methane organic compound annual emissions limits (40 CFR 60.752(b)(1)). This made the Mohave Valley Landfill subject to Arizona Administrative Code (A.A.C.) R18-2-731 "Standards of Performance for Existing Municipal Solid Waste Landfills". The Mohave Valley Landfill elected to comply with the requirements of NSPS Subpart XXX to satisfy the requirements of A.A.C. R18-2-731. The Mohave Valley Landfill is also subject therequirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart AAAA "Municipal Solid Waste Landfills."

In order to comply with the NSPS Subpart XXX rules, a landfill gas collection and control system (GCCS) was designed, permitted and installed over the constructed areas of the MVLF (Cells 1-9) at that time and began extracting landfill gas generated by the landfill in 2020. The GCCS was further expanded into Cells 10-12 in mid 2024 in compliance with NSPS rules requiring expansion within 5-years of waste placement into a new disposal unit. All gas extracted is disposed of via a candlestick flare located at the northwest corner of the facility.

The GCCS currently consists of 13 vertical gas collection wells and one (1) horizontal gas collection well in Cell 12 as shown on Sheet 3 of Appendix A-1. The GCCS design, expansion phasing, construction, operations and maintenance, and compliance is governed by ADEQ Air Quality Division under the Facility's Class 1 Air Quality Permit No. 92159 issued June 28, 2022. Air Quality Permit provided in Appendix C-15.

5.0 OPERATING PLAN

2026 Type IV Note: This Section of the 2011 SWFP has been modified to break out the Operation and Maintenance Plan into a stand alone document which is included in Appendix N. include all operational changes associated with the 2025 permit modification.

Refer to Appendix N for the full operating plan.

6.0 DESIGN CRITERIA

2026 Type IV Note: This Section of the 2011 SWFP has been modified to remove references and appendices for past permit drawing sets. The permit drawings provided in Appendix A-2 shall supersede all prior permit drawing sets.

This section of the SWFP specifies the design criteria and quality assurance protocols established for the construction of waste disposal cells at the Mohave Valley Landfill. The landfill design and construction aspects addressed in this section include: engineering design plans and specifications; an engineering design report; a construction quality assurance/quality control plan; and, construction certification. A complete set of the new permit drawings are included in Appendix A-2.

6.1 ENGINEERING DESIGN PLANS AND SPECIFICATIONS

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the current engineering design plans, specifications, and permit drawing set associated with the 2026 Type IV permit modification.

Engineering design drawings for the construction of base liner systems, leachate recovery and control systems, final cover systems, drainage control facilities, and other regulated site features have been prepared in accordance with applicable solid waste permitting requirements of § 49-762, AAC Title 18, Chapter 13, and 40 CFR Part 258 or using current best industry practice in the absence of regulatory guidance. These requirements are outlined in the Solid Waste Plan Review Checklist provided by the ADEQ Solid Waste Division.

The specific facility design elements presented on the permit drawings provided in Appendix A-2 are discussed below, with reference to the applicable drawing number. Specifications for the construction of new waste disposal cells have also been prepared and are included in Appendix I-1 of this SWFP. If the design and construction methods for future cell construction are consistent with this SWFP once approved, no further approval will be sought by Mohave County or required by ADEQ. Following cell construction, a construction certification report will be prepared and submitted to ADEQ as set forth in Section 6.4 of this SWFP.

- **Existing Site Topography:** A topographic map was prepared to provide a base map for site design drawings. Existing topography extending a minimum of 200 feet beyond site property boundaries is presented with two-foot contours and at a scale of 1"= 150' on Drawing 3. The date of photography for the base map is February 5, 2024.

- **Proposed Permitted Modification Grades:** The proposed grades for the construction of the lateral expansion are shown on Drawing 4. A cross-sectional representation of the cells is shown on Drawing 8.

- **Proposed Final Contours:** Final grades and slopes following closure of the site are delineated on Drawing 6. Again, typical cross-sections of existing and final disposal cell grades are shown on Drawing 8.

- **Facility Access and Traffic Routing:** Site access with respect to regional roadways is shown on the regional and site location maps included on Drawing 1. The location of the permanent entrance road and entrance gate is shown on Drawing 3. Existing perimeter roads and other site access roads are shown on Drawing 3. The location of site access roads following facility closure is shown on Drawing 3. Access roads in the vicinity of disposal areas during facility operations are also shown on Drawing 6.

- **Fences and Gates:** Location of the existing permanent perimeter fence and entrance gate is shown on Drawing 2.

- **Buildings, Structures, Utilities, and Appurtenances:** Existing site facilities, including the scale house, truck scales, guard house, storage tanks, collection sites, septage ponds, and maintenance areas, are shown on Drawing 3. Proposed facilities for both site development and following closure are shown on Drawing 4.

- **Property Boundaries:** The site property boundary is represented by the existing perimeter fence depicted on Drawing 3.

- **Fire Breaks and Buffer Zones:** The proposed limits of future waste placement are provided with a minimum 50-foot setback from site boundaries, in accordance with ADEQ requirements. Areas shown on Drawings 3 and 4.

- **Stockpile and Storage Areas:** Location and size of stockpile areas will vary over the life of the site. Current and near-future soil and tire stockpile areas are shown on Drawing 3. The location of current and near-future material and equipment storage areas is also shown on this drawing.

- **Drainage Control Systems:** Typical drainage collection and control systems and methods will be installed in future cells. The drainage control system that will be in place following closure is shown on Drawing 7. This system will be progressively constructed with each disposal cell.

- **Drainage System Grades and Dimensions:** Design details of typical drainage control structures are presented on Drawings 7 with associated details on drawings 11 and 12. Grades, inverts, and dimensions are discussed later in this section.

- **Flood Control Structures:** All site drainage facilities and run-on diversion channels have been designed for the 100-year, 24-hour storm event. The location of these facilities following closure is presented on Drawing 3.

- **Existing Waste Footprint:** The approximate limits of existing waste placement are delineated on Drawing 3.

- **Facility Development Plans:** The progression of facility development and the limits of future disposal areas are delineated on Drawing 4 The final configuration of the site following closure is presented on Drawing 6.

- **Soil Borings:** Location of exploratory soil borings that were previously drilled on-site are shown on Drawing G02 (2011 SWFP). No additional soil borings are proposed.

- **Monitoring Wells:** No ground water monitoring wells exist at the site, nor are any proposed to be installed in the future. A Groundwater Monitoring Program (GMP) for the Mohave Valley Landfill is being develop by the County under a separate permit modification. No domestic water production wells exist at the facility. The location of existing landfill gas monitoring wells are shown on Drawing 3.

- **Noise and Nuisance Reduction Controls:** Since the site is located in an isolated environment, approximately three miles from the closest structure and 4.5 miles from

Highway 95, no screens or landscaping are proposed at this time for the reduction of noise or nuisance at the site.

- **Map Orientation and Scale:** The scale of all plans, profiles, and details are shown, as applicable, on the drawings. In addition, all plan views include an orientation (north) arrow.

- **Base Liner and Leachate Collection and Removal System:** No base liner or leachate collection and removal system (LCRS) have been constructed under the existing waste footprint (Cells 1-12); however, a composite base liner and leachate collection and removal system (LCRS) will be installed for all new disposal cells, as shown on the permit drawing set in Appendix A-2.

- **Septage Ponds:** Three existing lined septage evaporation ponds are located in the northwest corner of the site, as shown on Drawing 3. These ponds are currently non-operational and are scheduled to be demolished and replaced in 2026. The septage evaporation ponds construction, operations, maintenance, and compliance are governed by a separate Aquifer Protection Permit, APP P-100330.02. See Appendix C-6 for a copy of the APP permit for the proposed replacement ponds.

- **Sedimentation Basin:** All surface water run-off from future cells will be collected and routed via drainage channels and culverts to a sedimentation basin, which will be constructed where proposed on Drawing 3. For detailed design and calculation of the the surface water drainage analysis, refer to Appendix J.

6.2 ENGINEERING REPORT

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The following engineering report provides a narrative discussion of all relevant design features required for facility development, pollution control, and environmental monitoring at the Mohave Valley Landfill. Where appropriate, these discussions are supported by test results, design calculations and assumptions, discussion of modeling techniques and input parameters, and other site specific information. Information presented in the accompanying appendices are properly referenced. This section will address the following elements: liner design, disposal rate and site life estimates, drainage facility design, slope stability analyses, erosion calculations, final cap design, and landfill gas monitoring.

6.2.1 Liner Design

2026 Type IV Note: This Section of the 2011 SWFP has been updated to reflect the proposed liner design for the future waste disposal units.

The facility design was submitted for permit approval without Provisions for a composite base liner or leachate collection and removal system (LCRS). The supporting technical justification supporting IS presented in the Request for a Suspension of Ground Water Monitoring and Composite Liner Requirements at the Mohave Valley Landfill (Vector, 1996), which is included in Appendix K of this SWFP. The waiver request was prepared in accordance with the requirements of 40 CFR 258.40(a)(1), which allows ADEQ to suspend liner installation requirements providing that site-specific conditions are unlikely to result in the impact of ground water beneath the facility. Following its technical review, ADEQ issued a tentative approval of the waiver request, pending submittal and approval of a final permit application and supporting documentation. Final approval was provided by

ADEQ on May 13, 1998, through issuance of the SWFP. This waiver allowed existing Cells 1-12 to be constructed without a base liner system.

On May 21, 2021, ADEQ issued a letter to the County revoking the waiver to the liner system requirements for future landfill developments predicating this 2026 Type IV change to the SWFP. Therefore all future disposal cells developed within the permitted limits of waste will be constructed with a base liner system and leachate collection and recovery system (LCRS) (See Section 6.2.2 for more LCRS discussion). As shown on the drawings and details provided in Appendix A-2, the future disposal cells will be equipped with a base liner system consisting of the following cross section top-to-bottom:

- 2-ft of screened protective cover soil (native screened material)
- 300-mil double sided geocomposite LCRS drainage blanket (geotextile-geonet-geotextile composite, See Section 6.2.2.)
- 60-mil double side texture high density polyethylene (HDPE) geomembrane
- Geosynthetic clay liner (GCL)
- Prepared subgrade

The geometry of the future disposal area has been designed to provide slope and liner system stability. As shown on the Drawings in Appendix A-2, the cell walls have a maximum slope of 3:1 (H:V) to allow for stable placement of protective cover over the entirety of the liner system during construction. In addition a mid-slope liner stability bench is provided for a mid-slope anchoring point for the geosynthetics. The liner system has been designed with top of slope anchoring which has been evaluated and sized as provided in Appendix O-1. The overall slope stability of the excavation has been evaluated and found stable as provided in Appendix E-1.

6.2.2 Leachate Collection and Recovery System

2026 Type IV Note: This Section of the 2011 SWFP has been updated to reflect the proposed leachate collection and recovery systems design for the future waste disposal units.

6.2.2.1 Leachate Collection and Recovery System Components

As discussed in the preceding section, Cells 1-12 are not equipped with a liner system or any form of LCRS. However, as part of this permit modification, all future disposal cells will be equipped with an LCRS. As shown on the drawings and details in Appendix A-2, the future disposal area will be divided into two leachate drainage basins both tipped to a central low-point collection sump located at the southeast corner of each basin. Each of these drainage basins will be equipped with the following LCRS components, sizing for these components are based on estimated leachate generation rates predicted by the Hydraulic Evaluation of Landfill Performance (HELP) model provided in Appendix O-2. The HELP modeling based on the LCRS components below demonstrates that the LCRS will maintain a head of less than 12-inches over the liner:

- 300-mil double sided geocomposite LCRS drainage blanket (geotextile-geonet-geotextile composite. This layer will cover the entirety of the cell and provides a high transmissivity medium for leachate flows and is the primary leachate drainage mechanism.

  – The geocomposite has been sized per the calculations provided in Appendix O-4.

  – The floor has a minimum slope of ~4.5%. A floor settlement calculation has been performed and provided in Appendix E-4 to demonstrate that the floor retains positive leachate drainage to the collection sump after consolidation and settlement of the liner subgrade after fully loading with waste.

- Gravel French drain style trenches. As shown on Drawing 5, the floor of the future disposal cells are equipped with a network of gravel French drain style trenches extending across the floor and along the low-end toe-lines. Each drain will have a 6-inch perforated HDPE pipe embedded in the gravel, which is geotextile wrapped to filter out clogging agents. The geocomposite drainage blanket will convey sheet flow to these drains for a low resistance pathway to the collection sump. In addition, the gravel extends over the height of the protective cover to provide a low resistance pathway for a flows over the top of the protective cover to enter into the drains and geocomposite below.

  – The potential of the pipe to be crushed under the weight of the overlying waste has been evaluated and sized accordingly as provided in Appendix O-5.

- Collection Sumps and Pumps. Each of the two leachate drainage basins has a central collection sump that the drainage composite and French drains terminate. The collection sumps are 35-ft x 35-ft in top dimension and 2-feet deep allowing for ~5,100 gallons of leachate to collect in each sump before exceeding the compliance point (i.e. top of sump) and backing up into the cell floor. Each sump will be equipped with a leachate sump pump that will automatically drain the sump based on sump liquid levels.

  – The minimum sump pump design curve has been modeled as provided in Appendix O-3.

- Dual Contained Leachate Forcemain. The leachate pumped out of the collection sumps will be conveyed to the leachate evaporation pond via a 3-inch diameter dual contained HDPE forcemain pipe.

  – The forcemain pipe has been modeled and sized as provided in Appendix O-3.

  Leachate Evaporation Pond. Leachate evacuated from the disposal cells will be pumped to, and retained for evaporating, within a geosynthetic lined pond located west of the disposal area. As shown on the drawings and details provided in Appendix A-2, the pond will be double lined and equipped with a leak detection system. See Section 6.2.3.1 below for more pond details.

6.2.2.2 Leachate Evaporation Pond Design

Pond Liner System

The leachate evaporation pond liner system will consist of the following layers from top-to-bottom:

- Primary 60-mil double side texture high density polyethylene (HDPE) geomembrane
- 200-mil double sided geocomposite leak detection drainage blanket (geotextile-geonet-geotextile composite)
- Secondary 40-mil double side texture high density polyethylene (HDPE) geomembrane
- Geosynthetic clay liner (GCL)
- Prepared Subgrade

The liner system will be anchored around the perimeter via an anchor trench.

Pond Evaporation Calculations

The leachate evaporation pond has been sized to evaporate liquids in the pond (leachate and incidental rainfall) based on the peak monthly leachate generation volumes estimated in the HELP Model (Appendix O-2), average monthly rainfall volumes, and a single 100-year, 24-hour rainfall event, as demonstrated in Appendix O-6.

Arizona Best Available Demonstrated Control Technology (BADCT) Compliance

The size and geometry of the leachate evaporation pond is in compliance with the BADCT Guidance Manual for "Non-Storm Water Ponds" as follows:

- Siting Criteria: the landfill's compliance with the location restrictions and surface water controls discussed in detail in Sections 2.0 and 6.2.4 respectively of this SWFP extends to the proposed leachate evaporation pond.

- Design, Construction, Operation:

  - The selection of the liner system materials described above are known to provide excellent protection and chemical resistance to leachate generated by MSW Landfills.

  - The proposed leachate evaporation pond is designed with 2-feet of freeboard and erosion is not anticipated due to the exposed liner system.

  - The proposed leachate evaporation pond will have maximum sides slopes of 3:1 (H:V). The subgrade will consist of a minimum of six inches of 3/8-inch minus screened soil compacted to 95% maximum dry density per ASTM D-698 and smooth rolled prior to geosynthetics placement.

  - The primary liner will consist of 60-mil HDPE and all geosynthetic materials will be anchored at the crest in a 2-ft x 2-ft trench backfilled in 6-inch lifts with a native screened material to 1/2inch minus and compacted to 95% maximum dry density per ASTM D-698.

  - The pond liner system will be observed and documented via third-party construction quality assurance (CQA) program as defined in the CQA Plan provided in Appendix I-2.

  - This pond is mostly excavated into the ground with no large embankments, thus no stability design is required.

Facility Inspection and Contingency Plan

The Contingency Plan established for the Landfill will be applicable to the proposed leachate evaporation ponds. This comprehensive Contingency Plan is outlined in Section 1.18 of Appendix N. Specifically tailored to the leachate evaporation ponds, it's essential to consider the following action levels as an integral component of the contingency plan. These action levels are designed to proactively address any potential issues and ensure the safe and compliant operation of the leachate evaporation pond while aligning with regulatory requirements and environmental best practices. The following actionable leakage levels were calculated using a spreadsheet provided by ADEQ based on an internal ADEQ Internal Memorandum date February 2003. The ADEQ spread sheet calculates the action levels based on design specific parameters of Pond Area and Maximum Pond Depth. These action level calculations are provided in Appendix O-7.

6.2.3 Inspections and Maintenance

Facility operational monitoring is crucial to ensure the proper functioning of the septage management facility. Weekly inspections will be conducted to maintain a minimum freeboard of 2 feet in the evaporation pond, and quarterly inspections of leak detection sump will be performed to check for the presence of liquids. Any identified liquids will be pumped back into the leachate evaporation pond. Measurements of liquid collected in leak detection sumps will be recorded during transfer to the evaporation pond. If leakage rates exceed actionable levels, the Level I / Level 2 / Level 3 Contingency procedures stated below will be promptly initiated. Quarterly inspections will also assess the structural condition of exposed liner material, riser pipes, and liner anchor trenches to identify any damage or wear requiring maintenance.

6.2.4 Action Leakage Rate

Action Level 1 Contingency: Action Level 1 Contingency is defined as actionable levels of liquid accumulating in the leak detection sump in the leachate evaporation pond. An acceptable accumulation of liquid in the leak detection sump from the primary liner system is 123 gallons per day. If there is an exceedance of a Level 1 action response level, MVLF shall:

a) Notify ADEQ Solid Waste Plan Review Unit and consultant within 24 hours of becoming aware of the exceedance,
b) Assess the condition of the liner system
c) Submit a corrective action plan (CAP) to ADEQ within 30 days of the notification to address problems identified in the assessment of the liner system.
d) Implement the CAP, once it has been approved by ADEQ.

Action Level 2 Contingency: Action Level 2 contingency is defined as actionable levels of liquid accumulating in the leak detection sump in the leachate evaporation pond. An acceptable accumulation of liquid in the leak detection sump from the primary liner system is 394 gallons per day. If there is an exceedance of a Level 2 action response level, MVLF shall:

a) Notify ADEQ Solid Waste Plan Review Unit and consultant within 24 hours of becoming aware of the exceedance.
b) Initiate actions to identify the location(s) of the leak(s) within three business days after the exceedance has been detected.
c) Suspend disposal of leachate into the pond.

d) Collect a sample of the liquid contained in the leak detection sump within five business days of the leak detection and analyze the sample for volatile organic compounds (VOCs) and metals.
e) Submit a CAP to repair or replace the liner system to ADEQ within 30 days of the notification.
f) Implement the CAP, once it has been approved by ADEQ.

Action Level 3 Contingency: Action Level 3 contingency is defined as an overtopping of the evaporation pond. In the event of a Level 3 contingency, MVLF shall:

a) Notify ADEQ Solid Waste Plan Review Unit and consultant within 24 hours of becoming aware of the overtopping.
b) Suspend disposal of leachate into the pond.
c) Remove all liquid from the pond and record the amount of liquid removed.
d) Collect a sample of the liquid contained in the leak detection sump within five business days of the leak detection and analyze the sample for volatile organic compounds (VOCs) and metals.
e) Complete a root cause analysis to determine how the overtopping occurred in the septage pond.
f) Submit an assessment of the overtopping problems identified and a CAP to assess and remediate, if necessary, the extent of the contamination resulting from the overtopping of liquids to the impacted soil to ADEQ within 30 days of the notification.
g) Implement the CAP, once it has been approved by ADEQ.

Closure and Post Closure

It is assumed that the proposed leachate evaporation pond will be closed at the end of the landfill's post-closure period and will be a clean closure, i.e. complete removal of all liner materials and contaminated soils. In this case post-closure will not be applicable. The cost to close the leachate evaporation pond is included in the closure cost estimated provided in Appendix L-1.

6.2.5 Design Capacity, Disposal Rate, Site Life and Soil Balance Calculations

2026 Type IV Note: This Section and Subsections of the 2011 SWFP have been updated/added to reflect current disposal rates, proposed design capacity increase, and current and projected soil resource availability.

6.2.5.1 Design Capacity

This 2026 Type IV change proposes new base grades for the future disposal area to accommodate liner systems and leachate collection as well as a vertical expansion over the entirety of the permitted waste footprint. As such, the design capacity of the landfill has increased by approximately 9,582,400 cubic yards, or about 60 percent, relative to the 2011 SWFP. In the 2011 SWFP, the total permitted airspace for the site was calculated as 14,950,100 cubic yards. Using the most recent topographic survey dated February 5, 2024 (2024 topography), the estimated waste airspace placed to that date is 3,490,000 cubic yards, and the remaining volume between the proposed top of waste surface and the combination of the February 2024 topography and the

proposed top-of-protective-layer surface is 21,042,400 cubic yards. The resulting total design capacity is therefore 24,532,400 cubic yards as of February 5, 2024.

6.2.5.2 Waste Disposal Rate

Waste disposal rates (airspace consumption rate) have been calculated by performing a volumetric surface-to-surface comparison of aerial topographic surfaces of the Facility from February 20, 2023 and February 5, 2024 in AutoDesk Civil3D software. This analysis showed that ~151,700 cubic yards of airspace was consumed in this nearly year-over-year comparison. Therefore, the baseline waste disposal rate for site life estimations is 151,700 cubic yards.

6.2.5.3 Site Life Estimate

Assuming the calculated remaining capacity of 21,042,400 cubic yards (Section 6.2.5.1) and a starting annual average waste disposal rate of 151,700 cubic yards (Section 6.2.5.2) and a average population growth rate of 0.65% as reported for Mohave County in the 2020 United States Census, Appendix D demonstrates an estimated closure date in 2114, or a remaining site life of 88 years.

6.2.5.4 Site Soil Balance

Appendix D provides a site soil balance calculation. The calculation considers the following soil generation and usage parameters:

- Soil Generation Available for Onsite Soil = 5,989,800 Cubic Yards, consisting of:
  - As of the February 5, 2025 topography the existing onsite stockpile contained ~319,000 cubic yards of available soil
  - All future cell excavation projects within the waste footprint will generate ~5,320,800 cubic yards of soil material
  - The septage pond project, leachate evaporation pond, onsite stormwater sedimentation basin and the offsite run-on diversion basin will generate ~350,000 cubic yards of soil material
- Soil Usage Demands = 5,991,368 cubic yards:
  - Operations will achieve an 18% soil to waste ratio for daily and intermediate soil needs, thus 18% of the waste mass
  - All future cell construction projects will require ~200,000 cubic yards of soil material
  - All future infrastructure construction and miscellaneous soil needs will require ~15,000 cubic yards of soil per year.
  - Closure of the facility will require ~550,000 cubic yards of soil.

As demonstrated in Appendix D, the Mohave Valley Landfill has adequate soil reserves onsite to sustain operations of the facility through closure.

6.2.6 Drainage Facility Design

2026 Type IV Note: This Section and Subsections of the 2011 SWFP have been updated/added to reflect the proposed design of the surface stormwater run-on

and run-off management systems for the revised final grades and current conditions of the Facility.

The Mohave Valley Landfill is situated on a broad alluvial fan. Topography in the vicinity is represented by very uniform terrain cut by numerous braided washes typical of the region. The site has a gradual slope of approximately three percent trending from northeast to southwest. The construction of drainage control facilities will progress throughout the active life of the landfill as waste fill is brought above native grades. Drainage facilities illustrated on the attached drawing set are designed to divert both run-on and run-off flows away from temporary and final fill surfaces and into natural drainage channels south and west of the site. The drainage system installed during closure construction will assist in maintaining the integrity of the final cover and preventing a washout of waste due to uncontrolled run-off during precipitation events.

6.2.6.1 Run-On Diversion Ditch and Basin (Designed by others)

Stormwater run-on from off-site washes intercepting the eastern facility perimeter will be collected and controlled through construction of a diversion ditch and basin along the south-eastern property boundary. Run-on diversion ditch and basin will be constructed along the east side of the landfill within the current BLM property. This design was completed by Kimley-Horn, and their design plans and calculations are provided in Exhibit 6 of Appendix J.

6.2.6.2 Run-Off Control System

The site drainage control system has been designed to collect storm water run-off from landfill surfaces and route it through swales, ditches, culverts, and/or downdrains to perimeter channels along the toe of the landfill. These channels will be constructed adjacent to site access roads around the perimeter of the waste footprint to collect storm water from side slope surfaces and will route all run-off flows to a storm water detention basin at the southwest corner of the site to settle out sediment loads prior to discharging into natural channels downstream. Due to the arid climate of the region, which may make revegetation of fill slopes and disturbed surfaces difficult, open channels will be constructed with erosion matting, geotextile, rip-rap, or other suitable lining material to minimize erosion from concentrated flows. The configuration of the drainage system following landfill closure is presented on Drawing 7 of the new permit drawing set, of the new permit drawing set provided in Appendix A-2.

The Mohave Valley Landfill will be operated using the cut-and-fill (area) method of disposal. Disposal cells will be excavated immediately ahead of the active face, and the excavated material will be used for daily and intermediate cover. After lining each cell, excavation and waste placement will occur simultaneously. The base of each excavated cell will be sloped to the west to create a hydrologic low point at the western toe of the cell. Waste fill slopes will be constructed without benches; instead, interim runoff will be controlled using diversion channels. Runoff collected by these diversion channels from interim fill slopes and cut slopes will be routed to the west, then down the side slopes into the base of the cell. The excavation basin created by cell construction will provide temporary storage outside of the lined area for non-contact stormwater to infiltrate and/or evaporate.

As waste placement progresses above grade within a given cell, runoff from landfill surfaces will continue to be directed toward the base of excavation. Once the toe of waste reaches the original excavation toe, stormwater runoff will be diverted into perimeter drainage channels and routed to a permanent detention pond at the southwest corner of the site. The permanent sedimentation basin will be installed during the initial stages of operation of the new cells; prior to that, temporary stormwater controls will be constructed as part of each cell's construction activities.

At closure, the top deck of the landfill will be graded to slope from east to west, with surface runoff collected by a system of diversion channels. These diversion channels will route flows westward to letdown structures that convey water down the side slopes into the perimeter trapezoidal channel, and then to the detention pond at the southwest corner of the site. The network of diversion channels and letdown structures will control stormwater runoff from the side slopes and top deck, reducing the potential for uncontrolled sheet flow and associated erosion.

6.2.6.3 Hydrologic Analysis

The run-off drainage control systems for the Mohave Valley Landfill have been analyzed using AutoDesk Storm and Sanitary Analysis hydraulic modeling software. The system was modeled in order to simulate the anticipated volume of precipitation and resulting peak run-off generated from the proposed closure conditions during the peak 25-year, 24-hour rainfall event. Stormwater management structures (i.e. berms, channels, culverts, and basins) were sized in the model to ensure sufficient capacity for the 25-year, 24-hour event. A complete summary report of the hydraulic modeling analysis including the modeling output demonstrating adequacy of the design is provided in Appendix J.

6.2.7 Slope Stability Analyses

2026 Type IV Note: This Section of the 2011 SWFP has been updated to reflect the proposed geometric design base liner with geosynthetics and the final cover vertical expansion.

The Mohave Valley Landfill includes excavations (up to about 100 feet below existing grade) and waste fills (up to about 290 feet above the subgrade) within both existing and future lined areas. Because the site is located in a seismic impact zone, slope stability was evaluated for final conditions, including the composite liner system, excavation slopes, and final waste slopes.

Stability analyses were performed along two representative cross sections (Profiles 1 and 2) that extend from the anchor trench areas to the maximum top deck grades and follow the primary leachate collection flowline and a perpendicular alignment. Both static and seismic conditions were analyzed using SLIDE2, Version 9.036 (Rocscience Inc.), a general limit equilibrium (GLE) two-dimensional slope stability model. The analyses indicate that the proposed grading configuration, liner system, and waste slopes are stable under the modeled conditions.

A detailed discussion of the stability analyses and results are provided in Appendix E-1.

6.2.8 Unstable Areas

2026 Type IV Note: This Section of the 2011 SWFP has been updated to reflect current precipitation rates for the landfill and updated slope stability analysis.

Pursuant to the requirements of ARS 49-772(E) and 40 CFR 258.15, the owner or operator of a landfill that is located in an unstable area must demonstrate that engineering measures have been incorporated into the design to ensure that the integrity of the structural components for the waste management units will not be disrupted.

To satisfy these requirements, factors that could potentially affect the stability of the landfill site were assessed. The property is situated on a west-sloping alluvial fan terrace within the Mohave Valley, a gently-sloping, northwest-trending alluvial valley. Sedimentary deposits underlying the site include a basal Miocene fanglomerate consisting of cemented sands, gravels, and silts; the Pliocene

Bouse Formation which consists of clays, limestones, and tufas; and, Pliocene/Holocene alluvium consisting of gravels, sands, silts, and clays deposited by the Colorado River and its tributaries. Surface soils are predominantly composed of clean, well graded sand with gravel and silt. There is a low shrink-swell potential, and as a result, differential settlement is not considered to be a problem. The primary geologic features in the vicinity are the Black Mountains to the east and the Mohave Valley Basin. There is no rockfall potential at the site.

The landfill region experiences a mean annual precipitation of approximately 5.4 inches and the depth to ground water at the site is estimated to be 280 feet or greater. Therefore, slope failure due to soil liquefaction or ground water seepage is unlikely.

As described above, stability analyses were performed for several critical slope configurations for both cut and waste fill surfaces, including temporary and final design conditions. The native soil present beneath the landfill site was laboratory tested for shear strength using a 15-inch square shear box; laboratory results were incorporated into the slope stability analyses and are included in Appendix E-2. The results of the stability analyses, also included in Appendix E-1, indicate that the proposed slopes and are sufficient to maintain stability with an adequate factor of safety. Therefore, the proposed site design meets the requirements established by 40 CFR 258.15.

6.2.9 Landfill Gas Collection System

2026 Type IV Note: This Section of the 2011 SWFP has been removed and refers to Section 4.9 as the information is redundant.

Refer to Section 4.9.

6.3 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PLAN

2026 Type IV Note: This Section of the 2011 SWFP has not been modified, however a new CQA Plan which reflects current industry standard CQA protocols for liner installations has been provided in Appendix I-2.

A quality assurance/quality control plan has been developed for the excavation and construction of future disposal cells and appurtenance facilities at the Mohave Valley Landfill. A copy of the plan is provided in Appendix I-2. The plan, referred to as a construction quality control (CQA) plan, specifies the duties of a third party to monitor, inspect, and evaluate materials and workmanship during construction of future expansion cells at the landfill. The enclosed CQA plan describes the testing and inspection protocols during construction, defines the responsibilities for the CQA management organization, and specifies the required level of experience and training for the contractor and his personnel.

The CQA activities document the compliance of the contractor with the design plans and specifications during construction. The overall goal of the CQA program is to ensure that proper construction techniques and procedures are used and that the project is built in accordance with the project plans and specifications. The intent is to identify and define problems that may occur during construction and to verify that these problems are corrected before construction is completed.

6.4 CONSTRUCTION REPORT

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Within 45 days following the completion of construction of any new disposal cell, a construction certification report will be submitted to ADEQ for approval. Waste will not be placed in any new

disposal cell until approval to operate is obtained from ADEQ. Each construction certification report will be stamped and certified by a registered professional engineer. All QA/QC testing conducted in the construction of the new disposal cell will be documented and will include documentation of any failed tests. Descriptions of the steps taken to correct any improperly installed material will be provided, together with all documentation for retesting. As-built drawings will be provided and will illustrate any deviations from the approved engineering plans. Color photographs will be taken of all major project features and included in the construction report. All information will be prepared in accordance with application requirements specified by ADEQ. The construction certification report will certify that construction was completed in accordance with approved plans and specifications.

6.5 LANDSCAPE PLAN

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Vegetation at the landfill facility consists of desert shrub including Creosote Bush, White Bursage, White Brittlebush, and Triangle Bursage. The density of vegetative cover is typically less than 10 percent (Basin & Range, 1993). Based on the design of the site, a majority of the 160-acre property will be disturbed at some point in the life of the landfill. Due to the extremely arid climate and sparse native vegetation cover, no specific revegetation plan is proposed. Rather, Mohave County proposes to allow natural processes to revegetate final landfill surfaces. If it is observed during the life of the facility that little or no vegetation has reestablished in areas which have been closed for a sufficient length of time, Mohave County

6.6 SOIL LOSS ESTIMATES

2026 Type IV Note: This Section of the 2011 SWFP has been modified to show the results of the updated soil loss calculations.

An estimate of the potential soil loss during the closure construction phase and the post closure maintenance period was computed using the Revised Universal Soil Loss equation. The procedure and accompanying calculations are presented in Appendix E-3. The results of this computation show an average soil loss from side slopes of 24.5 tons per acre (0.11 inches) for each year. Average soil loss from the top deck was calculated to be 2.8 tons per acre (0.013 inches) for each year.

Upon reviewing these results, the importance of proper compaction, soil moisture conditioning, and uniform grading during final cover construction becomes obvious. Closed landfill surfaces will be inspected for erosion during the post-closure maintenance period, and areas of excessive erosion will be repaired. Accumulated sediment loads will routinely be removed from storm water control channels, culverts, and basins.

7.0 HYDROGEOLOGIC STUDY

2026 Type IV Note: This Section of the 2011 SWFP has been updated to reflect the May 21, 2021 ADEQ Letter rescinding the 1997 waiver to groundwater monitoring requirements. Vector Engineering's Request for Suspension of Groundwater Monitoring and Composite Liner Requirements removed as a result of the rescinded waiver and only the original Hydrogeological technical memorandum by Basin & Range is included in Appendix K.

Solid waste permitting requirements specify that detailed information be provided regarding hydrogeologic characteristics of the landfill site and its regional setting. Basin & Range Hydrogeologists prepared a technical memorandum for the Mohave County Department of Public Works in June, 1993. The memorandum summarized Basin & Range's interpretation of the hydrogeologic setting of the landfill region based on a review of available literature and ground water well information in the area. It characterized the regional hydrogeologic characteristics, including a discussion of the regional geologic features, depth to ground water, ground water flow patterns, ground water quality, and site soils. The Basin & Range technical memorandum is included as supporting documentation in Appendix K.

8.0 GROUNDWATER MONITORING ACTIVITIES

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect ADEQ's decision on the previous groundwater monitoring and liner waiver and to reflect ADEQ's request for a new Groundwater Monitoring Program (GMP) for the site.

A groundwater monitoring suspension waiver were approved as part of the SWFP (MFPA 08004600.00) approved on May 13, 1998. However, on May 21, 2021 ADEQ issued a letter to the County rescinding this waiver requiring development of a groundwater monitoring program or approved alternative for future development at the site.

As agreed during the November 17, 2025 meeting between ADEQ, Mohave County, and SCS Engineers, a Groundwater Monitoring Program (GMP) or proposed alternative for the Mohave Valley Landfill will be developed by the County under a separate permit modification application. The proposed GMP will be submitted to ADEQ for review no later than June 31, 2026, and the County will implement the approved GMP within 12 months of receiving ADEQ approval.

9.0 CLOSURE AND POST-CLOSURE PLANS

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

This section presents the proposed closure schedule for solid waste management units and describes the Closure and Post-Closure Plans for the Mohave Valley Landfill. These Closure and Post-Closure Plans have been prepared as a required element of the Solid Waste Facilities Plan and in accordance with the criteria established by 40 CFR 258.60 and 258.61. The purpose of this section is the development of closure and post-closure design, construction, and maintenance guidelines to minimize the release of leachate, explosive gases, and solid waste to the environment after the site is closed. The Closure Plan primarily includes a description of the proposed closure cap design and final facility configuration, as well as a discussion of the construction requirements and activities. The closure grading plan drawings and details are provided in Appendix A-2. The Post-Closure Plan describes the routine maintenance and monitoring activities that are necessary following closure construction to prevent and detect any releases which may occur from the landfill to the environment.

9.1 APPLICABILITY

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The Mohave Valley Landfill is a municipal solid waste disposal facility located in Mohave County, Arizona. Preparation and submittal of Closure and Post-Closure Plans are required under Arizona solid waste facility permitting regulations and must follow the criteria set forth within 40 CFR 258.60 and 258.61. These Plans and any future modifications or additions to them will be maintained in the operating record for the landfill. Modifications to any portion of these Plans will be submitted for approval to ADEQ prior to implementation or inclusion in the approved plan to which the modification is being made.

9.2 CLOSURE SCHEDULE

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The County will provide ADEQ with advance written notice of the intent to close a waste management unit and implement the approved closure activities at the site at least 30 days prior to the projected final receipt of waste. A copy of this notice will also be placed in the operating record of the facility. Closure construction will commence no later than 30 days following final receipt of waste in the applicable waste management unit. Closure activities will be completed within 180 days of the beginning of construction, at which point documentation will be submitted to ADEQ certifying that the unit was closed in accordance with the approved Closure Plan. Should it be anticipated that either the commencement or completion of closure construction for a waste management unit will take longer than originally scheduled, the County will submit a request for extension to ADEQ prior to the applicable construction deadline.

During the active life of each waste management unit, rough grading will be performed by the site operator through the placement of waste and the application of daily cover. As each final lift is nearing completion, the operator will place waste in a manner which will bring surface grades as close to final design elevations as possible, with an allowance for final cover thickness. As the final grades of the landfill are reached, a minimum 12-inch interim cover will be placed, uniformly graded, and compacted over the final lift of waste. This layer will serve as the foundation for the final cover system and will provide containment of wastes until closure construction is initiated.

Prior to closure cap construction, fine grading and re-compaction of the interim cover will take place to ensure elimination of any rills or depressions caused by erosion, waste settlement, or other factors which may have taken place since interim cover placement. This task will be completed in approximately 30 days. Placement of the final cover material is anticipated to take another 120 days. Construction will be concluded with the installation of run-off control facilities and revegetation of the area. It is anticipated that these tasks will take another 30 days. Due to the year-round dry climate in the region, this lengthy construction schedule should not result in weather-related delays nor create construction problems for the contractor.

Closure construction will be monitored and documented by a third party, in accordance with the closure construction certification program, to ensure compliance with the parameters established in the CQA plan. Submittal of the final certification report will complete all closure activities for a waste management unit and mark the beginning of the post-closure maintenance period.

9.3 CLOSURE PLAN

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update appendix references.

This section includes detailed information regarding the proposed final cover design, construction methods, and quality assurance procedures for closure of each waste management unit at the Mohave Valley Landfill. All closure activities at the landfill will be completed in accordance with the provisions of this Plan, in a manner which will minimize the need for further maintenance and will adequately prepare the facility for the post-closure period.

Design plans, specifications, and a construction quality assurance (CQA) manual have been prepared for installation of the closure cap. Copies of the plan drawings are provided in Appendix A-2. Specifications and CQA plan for closure construction activities are provided in Appendix I-2. The final site configuration following closure construction of the final waste management unit is presented in Drawing 6, Final Cover Grading Plan. The above documents will provide the required details regarding the methods, procedures, and processes to be utilized during closure construction, including the quality assurance testing protocols to be followed.

In order to clearly detail the proposed closure activities, the following items are discussed in the sections below: final cover, drainage control facilities, decontamination and removal of equipment and structures, plan for removing remaining waste inventory, installation of monitoring devices, estimated cost of closure activities, closure certification, and deed notation.

9.3.1 Final Cover Design

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect to follow the proposed final cover geometry design and update information related to the update slope stability analysis.

In accordance with 40 CFR 258.60, the landfill owner or operator must install a final cover system that is designed to minimize moisture infiltration and erosion. The proposed final cover system consists of a prescriptive standard 1.5-foot thick barrier layer placed over a compacted soil foundation. As prescribed, the barrier layer must have a hydraulic permeability less than or equal to the bottom liner system or natural subsoils, or a permeability of $1x10^{-5}$ cm/sec, whichever is less.

The barrier layer will be protected with a minimum 0.5-foot thick erosion control/vegetative layer in order to minimize erosion of the cover and potential exposure of the underlying waste. Both layers

will be constructed from native soil generated from cell excavation activities; soil utilized in the closure cap construction of each waste management unit will be acquired either from on-site soil stockpiles or directly from the excavation area of the next expansion cell.

Testing will be performed on the proposed barrier layer materials prior to construction in order to ensure that they can achieve the required permeability. In the event that the native soils cannot meet this criteria, an off-site borrow area of fine-grained (clayey) soil will be identified and imported for use as a supplement to the native soil. The foundation for the barrier layer will be constructed by compacting the existing intermediate cover soil immediately prior to barrier layer placement. A cross-sectional detail of the proposed final cover design is presented on Drawing 11 of the new permit drawings presented in Appendix A-2.

The final cover for the Mohave Valley Landfill has been designed to provide a long term barrier to liquids migrating through the closed landfill, to isolate solid wastes from the surface, and to promote drainage. The design also minimizes erosion and abrasion of the cover and accommodates settlement of the landfill so that cover integrity is maintained. The top deck surface slopes at 5 percent east to west. Side slopes are graded at a maximum of 3:1, horizontal to vertical. Storm water run-off and sheet flow generated on-site is controlled via a system of diversion channels, letdown structures, and culverts. Proposed surfaces and drainage facilities for the final closure condition are presented on the enclosed Drawing 7, Stormwater Management Plan provided in the new permit drawings in Appendix A-2.

Final landfill surfaces were analyzed to evaluate the slope failure potential during a seismic event, in accordance with the criteria established in 40 CFR 258.14. Stability analyses were performed on various slope configurations utilizing the SSLIDE2, Version 9.036 (Rocscience Inc.), a general limit equilibrium (GLE) two-dimensional slope stability model to ensure that a reasonable factor of safety can be achieved with the facility design shown on the enclosed drawing set. The various scenarios, input parameters and model results are discussed in detail in Appendix E-1.

Laboratory testing of on-site soil samples was performed to determine the shear strength of native soils (Appendix E-2), and conservative parameters were assigned to the waste mass based on industry standards. The modeling results indicate that a comfortable margin of safety can be expected and slope failure during a seismic event is unlikely to occur with the final site configuration presented on the enclosed facility design drawings. The results of the slope stability analyses are presented in Appendix E-1.

9.3.2 Final Cover Installation

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect to follow the proposed final cover geometry design and update information related to the update slope stability analysis.

The owner and operator of the Mohave Valley Landfill will close completed portions of the landfill progressively during the active life of the facility. As fill grades in each cell are brought up to their final elevations, final cover will be constructed in accordance with the grading shown on Drawing 6, Final Cover Grading Plan, in Appendix A. The top deck will be sloped from east to west to promote positive drainage toward the perimeter drainage system, and the final cover will be constructed in phases, generally progressing from north to south across the landfill footprint.

Based on the current design grades and final cover configuration, the total volume of soil required to construct the complete final cover system over the permitted waste footprint is estimated to be approximately 550,000 cubic yards.

The interim cover will be constructed to a minimum thickness of one foot during cell operation. Prior to installation of the closure cap, the surface of the interim cover will be scarified, fine-graded and re-compacted to eliminate any depressed areas or erosion scouring and to provide a uniform construction surface. This task will provide a firm foundation for construction of subsequent soil lifts. Upon completion of fine grading, the surface will be surveyed and a construction monitoring grid will be established for quality assurance and construction certification purposes.

Soil utilized in the barrier layer will be obtained from on-site sources and will be screened to the appropriate maximum size, according to the criteria established in the closure construction specifications. Discarded oversized cobbles will be set aside for later use as rip-rap lining in drainage channels. Testing will be performed on the proposed barrier layer materials prior to construction in order to ensure that they can achieve the required permeability. In the event that the native soils cannot meet the design criteria, an off-site borrow area of fine-grained (clayey) soil will be identified and imported for use as a supplement to the native soil. For the purposes of determining the cost for closure, it was conservatively assumed that import materials would be brought in to supplement the native soils. These import materials will be mixed in the on-site borrow area prior to placement in the final cover.

Material for the barrier layer will be placed and compacted in lifts, as prescribed in the construction specifications, until proper final grades have been attained. The total layer thickness will be a minimum of 1.5 feet. A water truck will be provided to ensure that cover materials are properly moisture-conditioned during grading and compaction activities.

In-place density and moisture content testing will be performed at appropriate intervals on each soil lift, in accordance with the closure certification program, to confirm that construction is within acceptable limits prior to placement of the next lift. Laboratory testing of site soils will be used to establish the field test criteria for placed material. The completed barrier layer surface will be surveyed on an established coordinate grid to verify that final grades and the minimum soil thickness have been attained. Other means of determining the barrier layer thickness such as a pot-hole survey on a grid system may be performed in lieu of the grade survey.

Following construction and certification of the barrier layer, a minimum of six inches of native soil will be placed over the top to provide an erosion layer. The soil used for this layer will not have to be screened nor meet minimum compaction requirements. Once the final cover system is in place, the diversion channel and let down structures will be constructed (see Drawing 7 in Appendix A).

Given the naturally occurring low density of vegetation in the surrounding desert area and the lack of on-site irrigation sources, revegetation of closed surfaces through natural processes is proposed for the Mohave Valley Landfill. This proposed method is in keeping with the U.S. Department of Interior, Bureau of Land Management (BLM) regional policy to naturally revegetate soil surfaces in desert regions through the unassisted migration of plant species. This will eliminate the application of irrigation water to final cover surfaces, thus reducing the potential for liquid migration into the underlying waste mass. Revegetation of final cover through natural processes has been proven an effective method at two recently closed landfills located in Mohave County. Monitoring of the cover soils and repair of any erosion scarring will continue on a regular basis throughout the full post-closure period.

9.3.3 Site Life and Capacity

2026 Type IV Note: This Section of the 2011 SWFP has been removed and refers to Sections 1.5.8 and 6.2.5 as the information is redundant.

Refer to Sections 1.5.8 and 6.2.5 for detailed discussion of design capacity and estimated site life of Mohave Valley Landfill.

9.3.4 Drainage Facility Installation

2026 Type IV Note: This Section of the 2011 SWFP has been removed and refers to Section 6.2.6 as the information is redundant.

Refer to Section 6.2.6 for detailed information regarding facility closure condition drainage designs.

9.3.5 Septage Pond Closure

2026 Type IV Note: This Section of the 2011 SWFP has been removed and refers to APP P-100330.02 as the document governing closure of the septage ponds.

The septage ponds will be closed in accordance with the associated governing APP Permit P-100330.02 provided in Appendix C-6.

9.3.6 Decommissioning and Decontamination

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

It is anticipated that heavy equipment (compactors, scrapers, bulldozers, etc.) used during site operations and closure construction will not remain on-site during the post-closure maintenance period for the Mohave Valley Landfill. Heavy equipment will be provided on an as-needed basis for maintenance and repair during the post closure period by the Mohave County Department of Development Services, a local contractor, or other sources as appropriate. As a result, heavy equipment used for site operations and closure construction will be decontaminated, if necessary, and removed from the facility upon completion of waste filling and closure activities.

All temporary and permanent structures and storage tanks at the landfill which will not be used during the post-closure period will be dismantled and removed from the site. The truck scale and appurtenant equipment will be salvaged and the scale ramps will be removed. Underground utilities will either be removed and disposed of or abandoned in-place in accordance with local requirements.

Any areas of suspected contamination will be tested to determine the extent and nature of contamination. If contamination is found, it will be properly mitigated pursuant to regulations applicable at the time the landfill is closed.

9.3.7 Plan for Removing Waste Inventory

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

Any and all stockpiled recyclable material remaining on-site at the completion of final closure activities will be removed and/or recycled by licensed haulers and/or recycling contractors. Any remaining waste which qualifies as acceptable waste according to the applicable portions of the approved Operations Plan in effect at that time will be disposed in the working face prior to final closure. Arrangements will be made with an approved facility to haul and dispose of any remaining unacceptable wastes which were removed from the waste stream.

9.3.8 Installation of Monitoring Devices

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the May 21, 2021 ADEQ letter rescinding waiver to groundwater monitoring.

This 2026 Type IV change application to the Mohave Valley Landfill SWFP is being submitted without provisions for ground water monitoring. The County acknowledges that the suspension and waiver to groundwater monitoring requirements based on the technical justification presented in the *Request for* a *Suspension of Ground Water Monitoring and Composite Liner Requirements at the Mohave Valley Landfill* (Vector, 1996) was rescinded by ADEQ on May 21, 2021. As agreed during the November 17, 2025 meeting between ADEQ, Mohave County, and SCS Engineers, a Groundwater Monitoring Program (GMP) or proposed alternative for the Mohave Valley Landfill will be developed by the County under a separate permit modification application. The proposed GMP or alternative will be submitted to ADEQ for review no later than June 31, 2026, and the County will implement the approved GMP within 12 months of receiving ADEQ approval. Thus there are no groundwater monitoring wells currently installed or proposed for the Mohave Valley Landfill as part of this 2026 Type IV change application.

The landfill gas monitoring system will continue to be expanded in phases during future development of the Landfill. All gas monitoring probes will be installed prior to closure of the facility. Five landfill gas monitoring probes are currently in-place along the perimeter of the northern third of the site, as shown on Drawing 3 and 4 of Appendix A-2, Existing Topography and Facilities. As future waste cells progress from north to south, additional probes will be installed along the east, west, and southern boundaries. The landfill gas monitoring system will be completed with the placement of additional probes along the southern, eastern, and western property boundaries during operation of the southern-most municipal waste disposal cells. All gas monitoring probes will be placed around the perimeter of the site at horizontal intervals not to exceed 1,000 linear feet. Approximate probe locations for the proposed landfill gas monitoring system buildout are presented on Drawing 6, Final Grading Plan. Monitoring probes will be protected from damage during facility operations and closure construction activities.

Each probe will be provided with three probes of differing lengths to monitor various levels of the subsurface for the presence of methane. A detail of gas monitoring probe construction is included on Drawing C11 in Appendix A. All probes will be monitored for the presence of methane on a quarterly basis during the active life of the landfill and throughout the post-closure period. Detailed monitoring procedures conducted during the active life of the landfill and continued throughout the post-closure period are presented in the approved *Landfill Gas Monitoring Plan for the Mohave Valley Landfill* (Vector, 1996a) provided in Appendix F. Any permanent structures remaining on-site during the post-closure period will be monitored for methane with a mobile sensor. Monitoring results will be maintained in the facility operating record.

The proposed leachate evaporation pond will be equipped with a leak detection system complete with a monitoring riser which will be installed at the time of pond construction.

9.3.9 Estimated Landfill Closure Costs

2026 Type IV Note: This Section of the 2011 SWFP has not been modified, however the Closure/Post-Closure Care Cost Estimates in Appendix L have been updated to reflect the current landfill conditions.

As mentioned in Section 3.1, closure costs have been estimated for the Mohave Valley Landfill. A detailed estimate of closure construction costs for the largest area expected to receive final cover at any one time has been prepared. In accordance with 40 CFR 258.71, the closure cost estimate has been updated annually to account for inflation and adjust the estimate, as applicable, or if any changes are made to the closure plan. A copy of the current closure cost estimate is provided in Appendix L of this SWFP.

9.3.10 Closure Certification and Land Deed

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

As discussed in section 9.3.2 above, construction of the final cover system at the Mohave Valley Landfill will take place in phases as disposal operations expand from one cell to another. Third-party quality assurance services will be required during final cover construction to ensure that installation of cover components is performed in accordance with the approved plans and specifications. Following the completion of closure activities for a given area of the landfill, a final certification report will be prepared and signed by an independent registered professional engineer and submitted to ADEQ for final approval. Each certification report will verify that closure has been completed in accordance with the approved Closure Plan design and specifications. The report will contain supporting documentation generated during construction monitoring, including photographs, field test results, laboratory test results, if necessary, and as-built survey records.

The County of Mohave has placed a restrictive covenant on the deed to the Mohave Valley Landfill property stating that the site has been used as a landfill facility and that its future use is restricted under 40 CFR 258.6 1(c)(3). A copy of the restrictive covenant has been placed in the facility operating record at the offices of the Mohave County Department of Public Works, and ADEQ has been notified that the notation was placed on the deed. A copy of the restrictive covenant is included in Appendix C-8 of this SWFP.

9.4 POST-CLOSURE PLAN

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The purpose of this Post-Closure Plan is to define the procedures and frequency for inspection, monitoring, and maintenance of the final cover system and other facilities at the Mohave Valley Landfill during the post-closure period. This Plan specifically addresses post-closure care activities, which will include the inspection and maintenance of the final cover system and drainage control facilities and the monitoring of environmental control devices. In addition, the administration of post-closure activities and planned future use of the facility are addressed.

Post-closure care will be conducted for 30 years, unless otherwise authorized by ADEQ, to prevent and detect any releases which may occur from the landfill to the environment. The County may petition ADEQ for a decrease in the length of the post-closure period if the results of inspection and monitoring activities indicate that the landfill has stabilized and does not pose a threat to human health or the environment. All inspection activities are anticipated to be performed at a minimum frequency of once per quarter throughout the 30-year post-closure period.

9.4.1 Post-Closure Administration

2026 Type IV Note: This Section of the 2011 SWFP has been modified to update the contact person at the County.

The contact's name, address, and telephone number of the person responsible for administering post-closure activities at the Mohave Valley Landfill for Mohave County is as follows:

Mr. Luke Brazdys, P.E., R.L.S.
Mohave County Development Services
3250 E Kino Ave
Kingman, Arizona 86402-7000
phone: (928) 757-0903
fax: (928) 757-0936

9.4.2 Final Cover Inspection and Maintenance

2026 Type IV Note: This Section of the 2011 SWFP has not been modified.

The final cover was designed to provide a long-term barrier to fluid infiltration, isolate the waste mass from the environment, and promote drainage of storm water away from landfilled areas. Continued inspection and maintenance of the final cover system in accordance with the following procedures will ensure the effectiveness of the closure cap throughout the post-closure period.

The final cover will be inspected on a semi-annual basis for any breach of cover integrity. The surface of the final cover will be examined for areas of settlement, subsidence, or erosion. The nature, location, and extent of damage will be assessed and appropriate corrective actions will be taken.

9.4.3 Drainage Control System Inspection and Maintenance

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the proposed drainage system design.

The drainage control system presented on Drawing 7, Stormwater Management Plan, has been designed to accommodate the anticipated volume of surface run-off and peak flows resulting from a 25-year, 24-hour precipitation event. The purpose of the drainage control system is to minimize potential damage to the final cover system due to erosion or scouring from surface flows. All channels and areas subject to concentrated flows are designed with erosion matting overlain by rip-rap lining to counter-act erosive forces. Details of the drainage control system and its components are discussed in Section 6.0, Design Criteria, and Section 9.3, Closure Plan.

All drainage channels, culverts, and berms designed and constructed to divert surface water from the landfill will be inspected on a semi-annual basis throughout the post-closure period to ensure the continued effective operation of the system. In addition, drainage facilities may be inspected following unusually heavy precipitation events to verify the integrity of the drainage control system and to identify any repairs that may be necessary. Drainage facilities will be inspected for erosion damage, differential settlement effects, erosion mat tearing, excessive riprap displacement, and debris accumulation. Any drainage facilities requiring repair or cleaning will be evaluated and repairs made according to good engineering practice. Material replacement, including foundation soil, erosion matting, rip-rap, and culvert sections, will occur on an as-needed basis.

9.4.4 Environmental Monitoring Devices

2026 Type IV Note: This Section of the 2011 SWFP has been modified to reflect the proposed drainage system design.

The proposed design plans for the Mohave Valley Landfill are submitted without provisions for a ground water monitoring system. As noted previously, a request for suspension of the groundwater monitoring was been approved by ADEQ in 1997. However, On May 21, 2021 ADEQ rescinded this waiver for future development. As agreed during the November 17, 2025 meeting between ADEQ, Mohave County, and SCS Engineers, a Groundwater Monitoring Program (GMP) or proposed alternative for the Mohave Valley Landfill will be developed by the County under a separate permit modification application. The proposed GMP or alternative will be submitted to ADEQ for review no later than June 31, 2026, and the County will implement the approved GMP within 12 months of receiving ADEQ approval. Thus there are no groundwater monitoring wells currently installed or proposed for the Mohave Valley Landfill as part of this 2026 Type IV change application.

Perimeter landfill gas monitoring probes will be monitored throughout the post-closure period for presence of methane in accordance with the approved Landfill Gas Monitoring Plan and 40 CFR 258.23. The monitoring plan is discussed in detail within the Operations and Maintenance Plan provided in Appendix N. The frequency of monitoring may increase if methane is detected at levels greater than the lower explosive limit (LEL) at the property boundary or 25 percent of the LEL within any permanent structures. A decrease in sampling frequency may be requested if no methane is detected or if the level has stabilized over a period of years during the post-closure period.

Results of each sampling event will be summarized in a report and entered into the facility operating record within 90 days. No permanent structures are expected to remain on-site following closure; as a result, ambient air sampling will not be required. If any structures do remain on-site during the post-closure period, they will be monitored by mobile sensor to ensure that the concentration of methane gas does not exceed 25 percent of the LEL. Gas monitoring probes do not require routine maintenance for adequate operation. However, each probe will be inspected at the time sampling is conducted to ensure that they are in good operating condition. If any probes are found to be malfunctioning or in need of repair, the appropriate parties will be notified and any necessary corrective action will be taken.

All necessary steps will be taken to ensure protection of public health and safety if landfill gas is detected at levels which exceed the LEL for methane in perimeter gas monitoring probes or 25 percent of the LEL in permanent facility structures. If methane concentrations exceeding these levels are detected, an action plan will be immediately initiated in accordance with the approved Landfill Gas Monitoring Plan. A record of the occurrence, including the levels of methane gas detected and a description of the actions taken to protect public health and safety, will be entered into the facility operating record within seven days following detection. Within 60 days after detection, a plan for remediation of the methane gas release will be developed, implemented, and placed into the facility operating record. The plan will describe the nature and extent of the problem, recommendations for increased monitoring frequency, and the proposed remediation plan. The County will notify ADEQ of the purpose of the plan and its schedule for implementation.

The leachate evaporation pond leak detection riser will continue to be monitored on a quarterly basis throughout the post closure period for compliance with the Action Leakage Rates as discussed in Section 6.2.2.2.

The landfill gas collection and control system will continue to be operated, maintained, and monitored throughout the post-closure period in compliance with NSPS regulations and the Mohave Valley Landfill's Class 1 Air Quality Permit, See Appendix C-15.

9.4.5 Security Inspection and Maintenance

2026 Type IV Note: This Section of the 2011 SWFP has not been.

A three-strand barbed-wire fence and locking entrance gate have been installed around the full perimeter of the Mohave Valley Landfill to prevent unauthorized access. These facilities will be inspected on a regular basis as part of routine maintenance activities throughout the post-closure period. Repairs will be made as necessary to maintain the integrity of the site security system.

9.4.6 Estimated Post-Closure Maintenance Costs

2026 Type IV Note: This Section of the 2011 SWFP has not been modified, however the Closure/Post-Closure Care Cost Estimates in Appendix L have been updated to reflect the current landfill conditions.

A detailed estimate of the anticipated costs associated with performing post-closure maintenance activities at the facility has been prepared and is included with this SWFP. Pursuant to regulatory requirements, post-closure maintenance will continue for a period of 30 years following final closure of the site. The County will place financial assurance documentation and the detailed post closure cost estimate in the facility operating record in accordance with the requirements of 40 CFR 258.71; ADEQ will be notified when this takes place. In addition, the post-closure cost estimate will be adjusted on an annual basis to account for inflation and adjust the estimate, as applicable, if any changes are made to the Post-Closure Plan. Current post-closure cost estimates are provided in Appendix L.

9.4.7 Post-Closure Land Use

It is anticipated that the Mohave Valley Landfill will return to open space use following completion of the post-closure period. Any post-closure use of the landfill property will be in compliance with the provisions of 40 CFR 258.61 and will not disturb the integrity of the final cover or any other component of the landfill closure design.

9.4.8 Post-Closure Certification

Post closure maintenance will be conducted in accordance with the approved Post· Closure Plan. A Post· Closure Certification Report will be prepared and entered into the facility operating record following completion of each post closure period. Mohave County will notify ADEQ that the report has been placed in the operating record. The report will be prepared and certified by an independent professional engineer registered in Arizona.

10.0 MODIFICATION FROM 2011 SWFP

2026 Type IV Note: Section 10 and all subsections of the 2011 SWFP has been completely revised or added to reflect the proposed SWFP and design modifications.

This section summarizes the modifications to the previously approved 2011 Solid Waste Facilities Plans (SWFP) for the Mohave Valley Landfill. The 2026 Type IV update incorporates the redesign of base grades, installation of a composite liner system and leachate collection and removal system (LCRS) for future cells, revised drainage and stormwater controls, modifying bottom grading, updated final cover design, revised closure and post-closure planning, updated groundwater monitoring requirements, topographic information and an updated landfill capacity and site life analysis.

10.1 LANDFILL FOOTPRINT AND SITE GEOMETRY

Previous SWFP revisions (2011) reduced the waste footprint primarily on the northwest portion of the site and modified the alignment around existing stockpiles and septage ponds. The 2026 Type IV update does not further modify the permitted waste footprint; instead, it incorporates updated grading, liner limits, and drainage channels within the approved footprint. The footprint and boundary conditions shown in Appendix A represent the current permitted limits for waste placement and future lined cell development.

10.2 COMPOSITE LINER AND LEACHATE COLLECTION SYSTEM

The 2011 SWFP relied on ADEQ's approved suspension of groundwater monitoring and waiver of composite liner requirements, authorizing continued filling over unlined trenches and vertical expansion. On May 21, 2021, ADEQ rescinded the historical liner and groundwater-monitoring waiver, and all new disposal cells must be constructed with a composite liner and LCRS. This 2026 Type IV change therefore incorporates:

- Composite bottom geosynthetic liner system for all future cells
- LCRS perforated pipe network and blanket drainage layer
- Leachate collection and recovery to a proposed leachate evaporation pond

10.3 UPDATED BOTTOM AND FINAL GRADING

The 2011 SWFP replaced the trenching approach with uniform subgrade plans. This 2026 Type IV change modifies the grading which:

- Implements a uniform lined subgrade geometry that supports LCRS function
- Establishing consistent drainage slopes across new lined cells
- Revising excavation grade
- Yields enough soil to support the lifetime soil needs of the facility including closure.

The 2026 Type IV change also proposes a ~106-ft vertical expansion.

The combination of the proposed revised base grades and the vertical expansion increase the design capacity of the Landfill by ~9,582,400 cubic yards and 28-years.

10.4 UPDATED STORMWATER AND DRAINAGE INFRASTRUCTURE

Stormwater controls described in earlier SWFP have been replaced with an updated 2025 drainage system that includes:

- A redesigned run-on diversion ditch and basin along the east and south sides (design by others, See Exhibit 6 of Appendix J)
- Updated perimeter channels
- Open channel riprap lined letdown structures in lieu of piped letdown structures
- Periodic tack-on soil side slope diversion berms, in lieu of cut-in benches.
- Updated final cover drainage layout with 5% top deck slope from east to west with no channelized flow over the deck.

Drainage facilities are reflected on the revised drawings in Appendix A-2, Drawing 7.

10.5 GROUNDWATER MONITORING PROGRAM UPDATE

Prior approved SWFPs relied on an ADEQ-approved suspension of groundwater monitoring. On May 21, 2021, ADEQ rescinded this suspension for future development. Accordingly:

- A Groundwater Monitoring Program (GMP) or proposed alternative is being prepared under a separate permit modification
- The proposed GMP or alternative will be submitted no later than June 31, 2026
- GMP implementation will begin within 12 months of ADEQ approval

Appendix A

Figures and Drawings

Appendix A-1

Figures

NOTES:

IMAGE SOURCE IS FROM GOOGLE EARTH IMAGERY.

N

GRAPHIC SCALE

400 200 0 400 800 1200

AS SHOWN

NO.	REVISION	DATE

SHEET TITLE: VICINITY MAP

PROJECT TITLE: 2025 MOHAVE VALLEY LANDFILL MASTER DEVELOPMENT PLANING

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2586

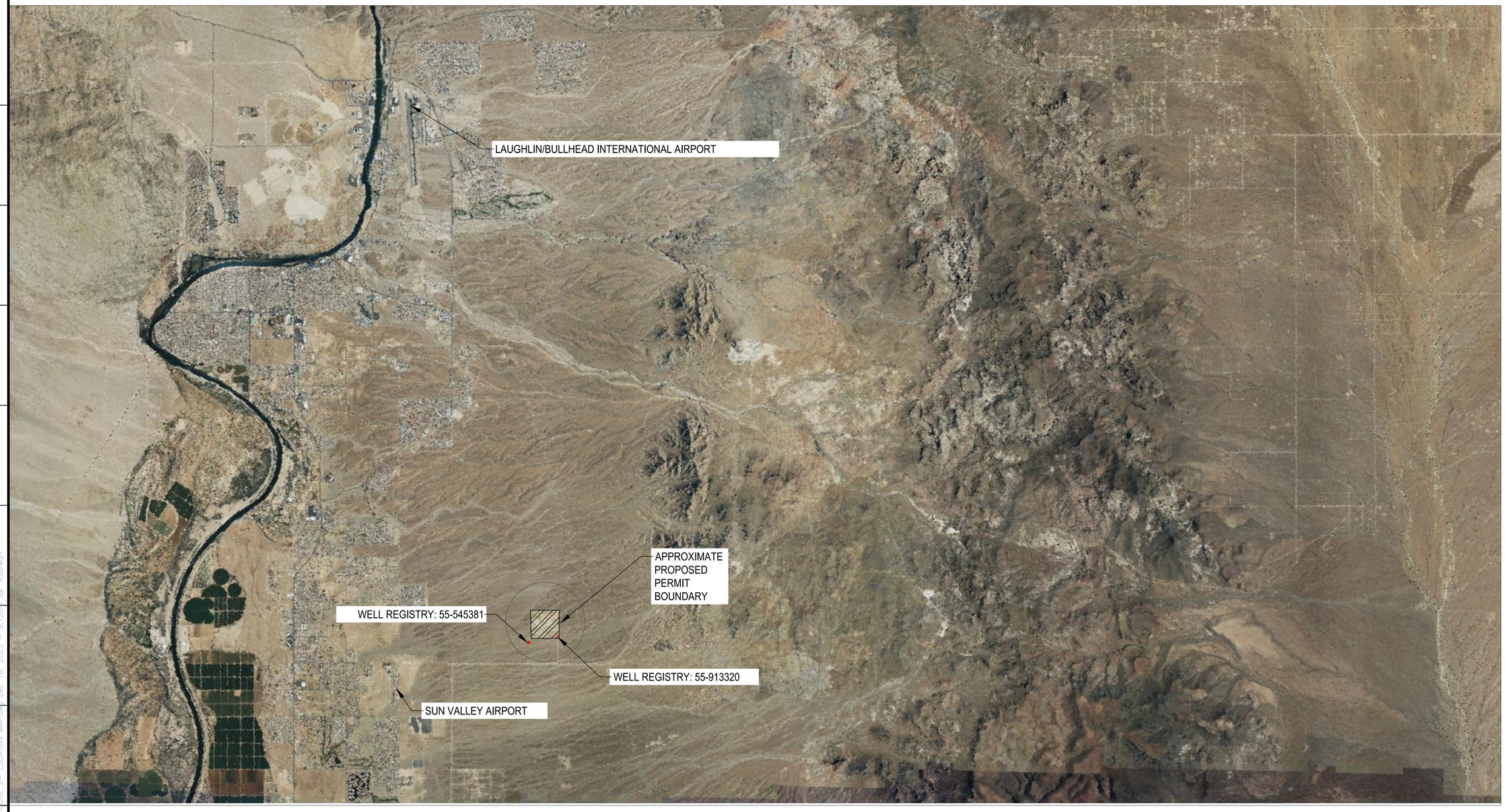
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD. FILE: F/ENGINEERS | APP. BY: MPB

DATE: 10-31-2025

SCALE: AS SHOWN

FIGURE: 1

C:\Users\47472a_a\AppData\Local\Temp\AcPublish_14952\[FIGURE 1 - VICINITY MAP.dwg] Dec 18, 2025 - 9:12am By: ASmart



NOTES:

1) THE SOURCE OF AERIAL IMAGERY USED IN THIS DRAWING IS FROM BING IMAGERY.
2) RADIUS OF 1.5 MILES SHOWING APPROXIMATE LOCATION OF REGISTERED WELLS.
3) WELLS INFORMATION AND LOCATIONS ARE FROM ARIZONA DEPARTMENT OF WATER RESOURCES "WELL REGISTRY".

N

GRAPHIC SCALE

5000 2500 0 5000 10000 15000

1":5000'

NO. | REVISION | DATE

SHEET TITLE: LOCATION MAP

PROJECT TITLE: 2025 MOHAVE VALLEY LANDFILL MASTER DEVELOPMENT PLANING

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA 1864 DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2356

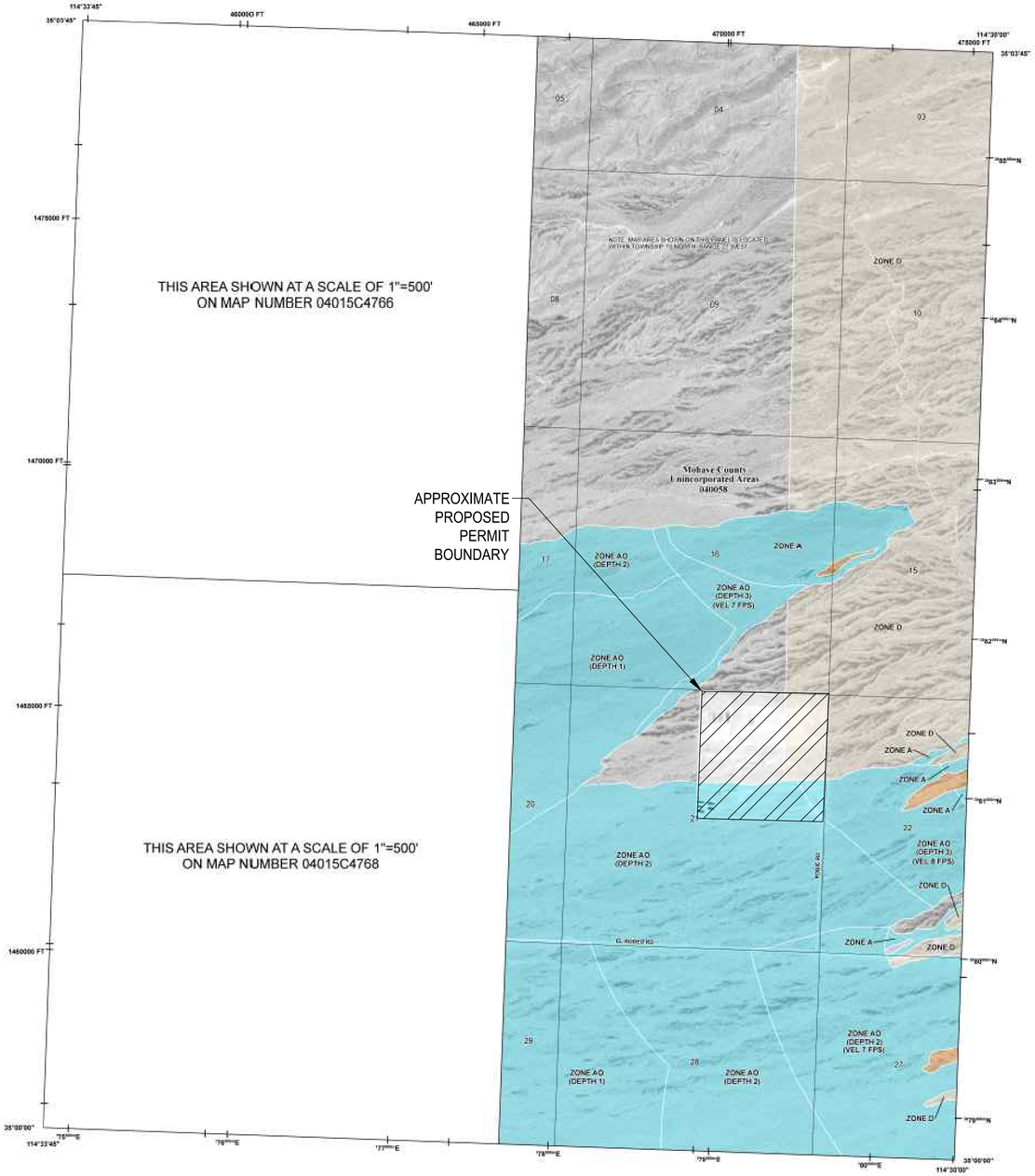
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F/ENGINEERS | APP. BY: MPB

DATE: 10-31-2025

SCALE: AS SHOWN

SHEET: 2

C:\Users\47472\...\AppData\Local\Temp\AcPublish_14952\FIGURE 2 - LOCATION MAP.dwg Dec 18, 2025 9:12a By: ASmart



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) *Zone A, V, A99*
		With BFE or Depth *Zone AE, AO, AH, VE, AR*
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
		Future Conditions 1% Annual Chance Flood Hazard *Zone X*
		Area with Reduced Flood Risk due to Levee See Notes *Zone X*
OTHER AREAS	NO SCREEN	Areas of Minimal Flood Hazard *Zone X*
		Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES		Channel, Culvert or Storm Sewer
		Accredited or Provisionally Accredited Levee, Dike or Floodwall
		Non-accredited Levee, Dike or Floodwall
	E 18.2	Cross Sections with 1% Annual Chance
	17.5	Water Surface Elevation (BFE)
	B	Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	513	Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary

SCALE

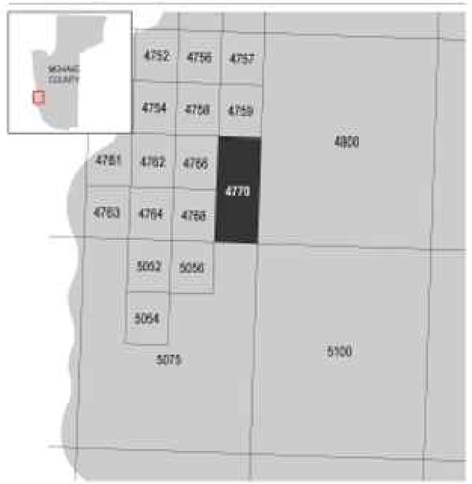
Map Projection:
Universal Transverse Mercator (UTM); North American Datum 1983; Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

0 1,000 2,000 4,000 Feet

0 250 500 1,000 Meters

PANEL LOCATOR



NOTES:

1) FLOODPLAIN DATA SHOWN IS FROM FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).
2) MOHAVE VALLEY LANDFILL LOCATED IN ZONE AO AND D.
3) IN REFERENCE TO FEMA ZONE AO: IS A HIGH RISK FLOOD HAZARD AREA CHARACTERIZED BY SHALLOW FLOODING,TYPICALLY SHEET FLOW WITH DEPTH 1 TO 3 FEET. ZONE D: INDECATES AREAS WITH POSSIBLR BUT UNDETERMINED HAZARDS.

NO.	REVISION	DATE

SHEET TITLE: FLOODPLAIN MAP

PROJECT TITLE: 2025 MOHAVE VALLEY LANDFILL MASTER DEVELOPMENT PLANING

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

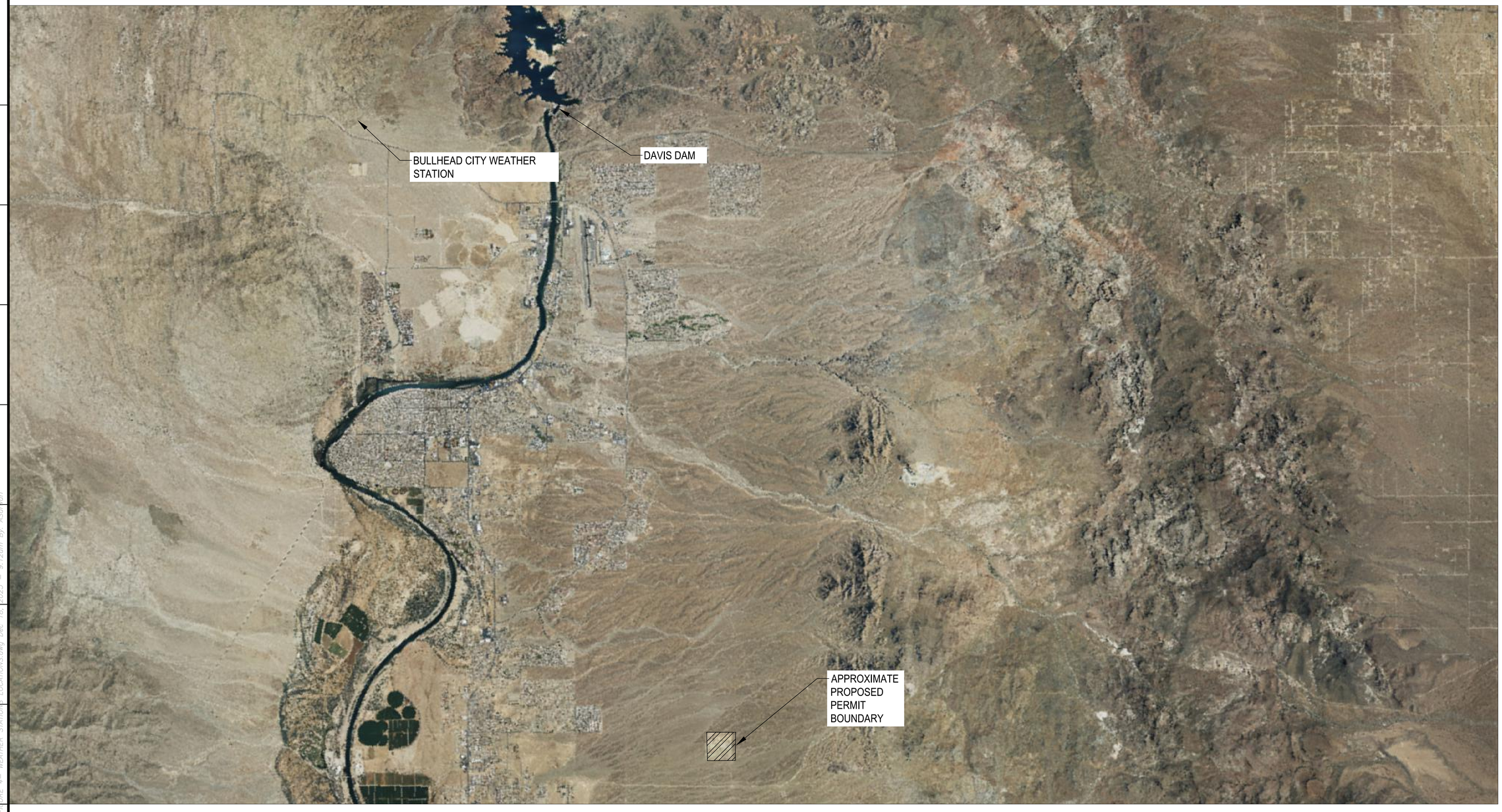
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F_ENGINEERS | APP. BY: MPB

DATE: 10-31-2025

SCALE: AS SHOWN

SHEET: 3

C:\Users\47478...\AppData\Local\Temp\AcPublish_14952\FIRE 3 - FLOODPLAIN MAP.dwg Dec 18, 2025 - 9:17am By: ASomani



NOTES:

1) THE SOURCE OF AERIAL IMAGERY USED IN THIS DRAWING IS FROM BING IMAGERY.
2) THE SOURCE OF APPROXIMATE LOCATIONS OF WEATHER STATIONS IS THE NATIONAL WEATHER SERVICE WEBSITE BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA).

N

GRAPHIC SCALE

5000 2500 0 5000 10000 15000

1":5000'

NO.	REVISION	DATE

SHEET TITLE: WEATHER STATION LOCATIONS

PROJECT TITLE: 2025 MOHAVE VALLEY LANDFILL MASTER DEVELOPMENT PLANING

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2356

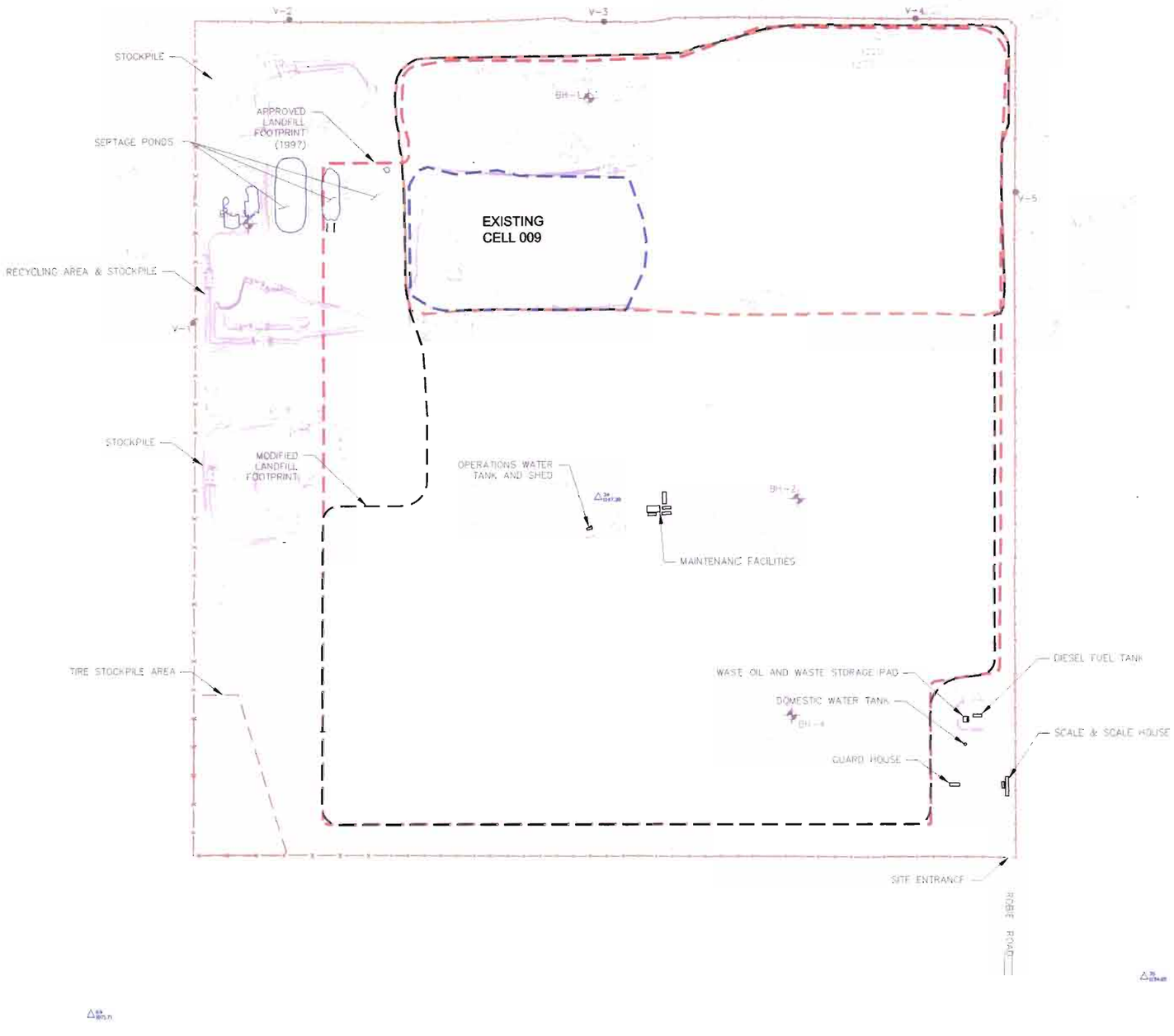
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F/ENGINEERS | APP. BY: MPB

DATE: 10-31-2025

SCALE: AS SHOWN

SHEET: 4

C:\Users\47472a_s\AppData\Local\Temp\AcPublish_14952\FIGURE 4- WEATHER STATION LOCATIONS.dwg Dec 18, 2025 - 9:12am By: ASantori



GRAPHIC SCALE

200' 0' 100' 200' 400' 800'

LEGEND

- EXISTING 10' FT CONTOUR
- EXISTING 2' FT CONTOUR
- EXISTING UNPAVED ROAD
- EXISTING FENCE
- EXISTING WATER BODY
- USED LANDFILL FOOTPRINT
- CELL 009 LIMIT
- MODIFIED LANDFILL FOOTPRINT
- APPROXIMATE APPROVED LANDFILL FOOTPRINT (1997)
- TIRE STOCKPILE AREA
- V-4 EXISTING LANDFILL GAS MONITORING PROBE
- BENCH MARK
- BH-4 EXPLORATION DRILL HOLE

NOTES:
1. EXISTING TOPOGRAPHY BASED ON AERIAL SURVEY PERFORMED BY RICK ENGINEERING COMPANY ON APRIL 22, 2009

REV. NO.	DATE	DESCRIPTION	DRAWN BY	DESIGNED BY	CHECKED BY	APPROVED BY
0	01/11/11	ISSUED FOR PERMITTING	WC	BGA	TVR	TVR

DATE OF ISSUE: 01/11/2011
DESIGNED BY: BGA
DRAWN BY: WC
CHECKED BY: TVR
APPROVED BY: TVR

VECTOR ENGINEERING, INC.
An Ausenco group company
THE AMERICAS • ASIA • AUSTRALIA
143E Spring Hill Drive, Grass Valley, CA 95945 +1-530-272-2448 +1-530-272-8533 fax

MOHAVE VALLEY LANDFILL
SOLID WASTE
FACILITY PLAN
MOHAVE COUNTY, ARIZONA

EXISTING CONDITIONS & SITE PLAN

DRAWING NO. G02
PROJECT NO. 021219.02

ISSUED FOR PERMITTING

LOCATION: N:\Mohave Valley Landfill - County\021219.02 Type III Change for Vertical Expansion\CAD\Final Drawings\Issued for Permitting\G

This drawing has not been published but rather has been prepared by Vector Engineering, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Vector Engineering, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose.

Appendix A-2

New Permit Drawings

DRAWINGS FOR THE

SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

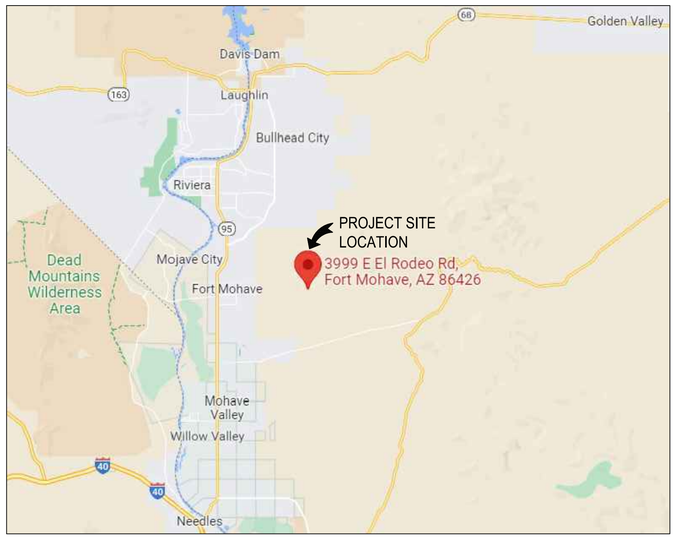
AT THE

MOHAVE VALLEY LANDFILL

3999 EL RODEO ROAD
FORT MOHAVE, AZ 86426

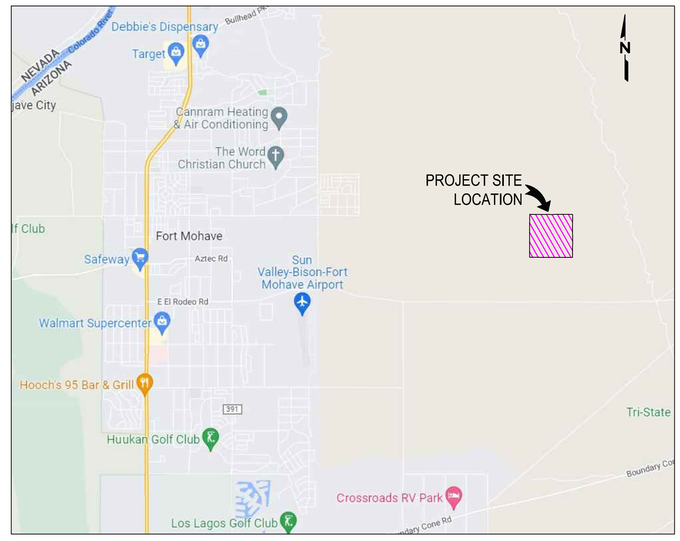
PREPARED FOR

MOHAVE COUNTY DEVELOPMENT SERVICES



VICINITY MAP
N.T.S.

DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	INDEX SHEET
3A	EXISTING SITE CONDITIONS
3B	PROPOSED FACILITY DEVELOPMENT PLANS
4	EXISTING AND PROPOSED TOP OF SUBGRADE ELEVATIONS
5	LEACHATE MANAGEMENT SITE PLAN
6	FINAL COVER GRADING PLAN
7	STORMWATER MANAGEMENT PLAN
8	TYPICAL CROSS-SECTIONS
9	LEACHATE POND GRADING PLAN LAYOUT
10	LEACHATE POND GRADING PLAN CROSS SECTIONS
11-16	TYPICAL DETAILS



LOCATION MAP
N.T.S.

FOR PERMITTING PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: COVER SHEET

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

ACAD FILE: F:\ENGINEERS
APP. BY: MPB
DWN. BY: MM
CHK. BY: AAS
PROJ. NO.: 01216008.10
DSN. BY: MM

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 1

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP – Eng & Permitting\Task 1\Design Plan set\1– TITLE SHEET MOHAVE LF 2025.dwg Dec 18, 2025 – 11:12am By: edoctor

CONTROL STATEMENT:

UNITS:	INTERNATIONAL FEET (ift)
COORDINATE SYSTEM:	US STATE PLANE 1983
ZONE:	ARIZONA WEST (0203)
DATUM:	NAD83 (2011), EPOCH 2010.00
ELLIPSOID:	GEODETIC REFERENCE SYSTEM OF 1980
GEOID MODEL:	GEOID18

LOCAL HORIZONTAL SITE SETTINGS:

PROJECT LATITUDE:	35°01'08.71491"N
PROJECT LONGITUDE:	114°30'37.08200"W
GRID NORTH:	1463158.246ift
GRID EAST:	472354.330ift
PROJECT NORTH:	57532.223ift
PROJECT EAST:	36520.368ift
PROJECT ELEVATION:	1177.350ift
GROUND SCALE FACTOR:	1.00005707904
ROTATION:	0°21'04.335"

Mohave Landfill Control Point Table (Grid)

Point #	Grid Northing	Grid Easting	Elevation	Raw Description
17601	1462444.1030	473190.7713	1200.110	NAIL W/WASHER
17604	1462370.9546	469179.5305	1055.751	NAIL W/WASHER
17603	1465992.6522	469114.0679	1092.300	NAIL W/WASHER
17602	1466001.9261	472942.7532	1239.800	NAIL W/WASHER
50	1463158.2460	472354.3300	1177.350	½ REBAR

CONTACT INFORMATION:

OWNER:
MOHAVE COUNTY DEVELOPMENT SERVICES
ATTENTION: LUKE V. BRAZDYS
3250 E KINO AVE,
KINGMAN, AZ 86409
PHONE: (928) 757-0903

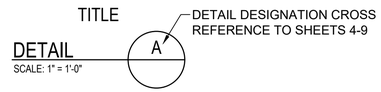
ENGINEER:
SCS ENGINEERS
ATTENTION: MICHAEL BRADFORD P.E. - PROJECT DIRECTOR
6100 S MAPLE AVENUE, STE 118, TEMPE AZ 85283
MAIN LINE: (602) 840-2596
CELL: (602) 826-9398

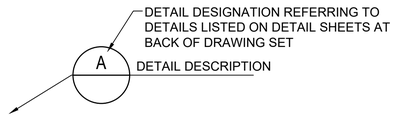
REGULATORY AUTHORITY:
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
SOLID WASTE MANAGEMENT DIVISION
ATTENTION: SOLID WASTE MANAGEMENT DIVISION CHIEF
1110 W. WASHINGTON ST.
PHOENIX, AZ 85007
PHONE: (602)-771-2300

ABBREVIATIONS

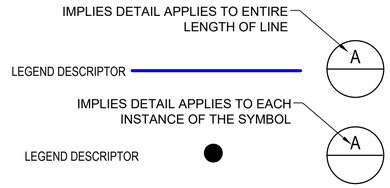
ADEQ	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
CB	CATCH BASIN
DIA	DIAMETER
DWG	DRAWING
ELEV	ELEVATION
EX/EXIST	EXISTING
FT	FEET
FUT	FUTURE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
IN	INCHES
INV	INVERT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MSL	MEAN SEA LEVEL
NOM	NOMINAL
NSPS	NEW SOURCE PERFORMANCE STANDARDS
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
℄	PROPERTY LINE
SDR	STANDARD DIMENSION RATIO
TYP	TYPICAL
VERT	VERTICAL
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

CALL OUT LEGEND





LEGEND



EXPIRES
06/30/2026

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: INDEX SHEET

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT:

MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2596

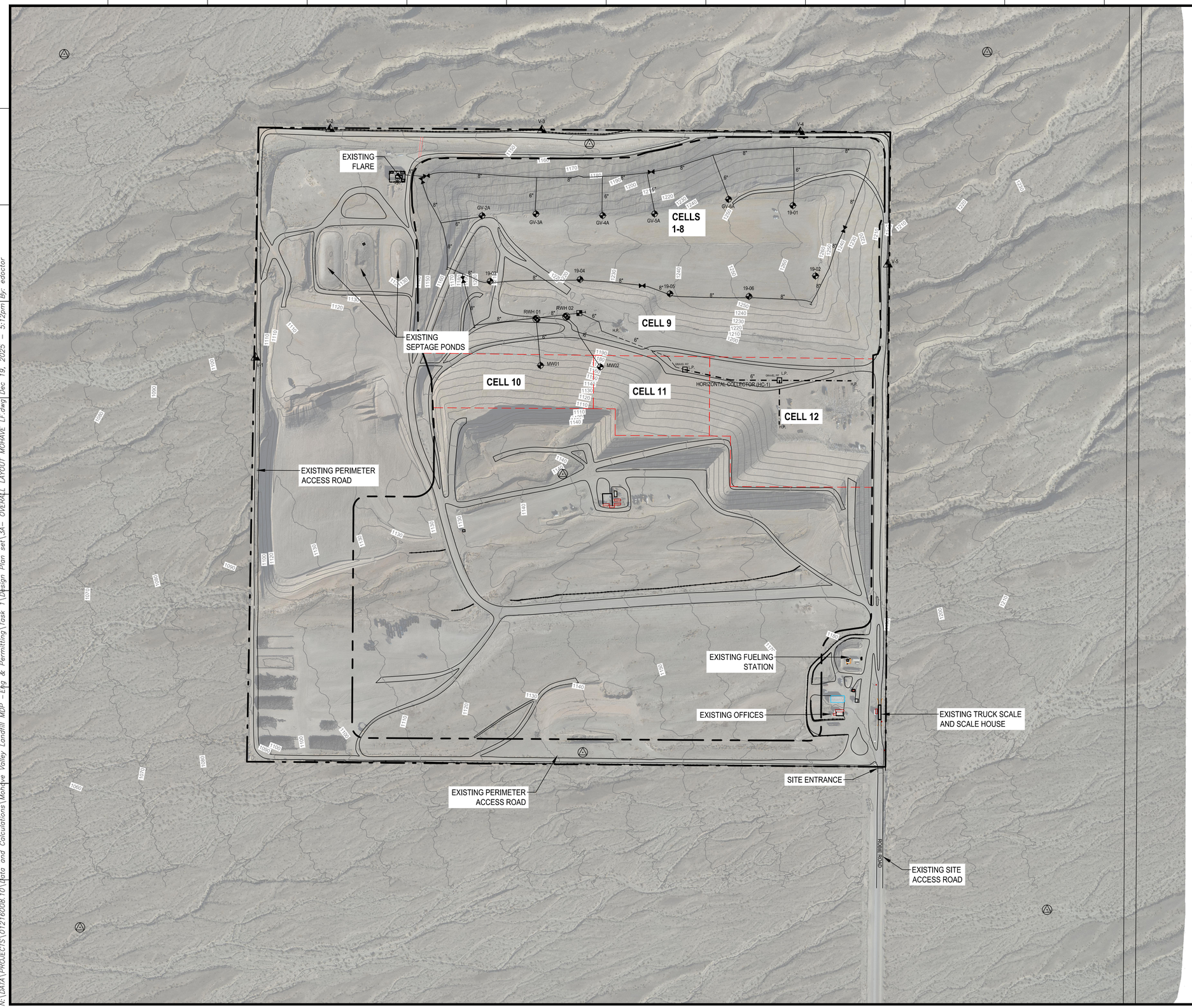
PROJ. NO: 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F:\ENGINEERS | APP. BY: MPB

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 2

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\2- INDEX SHEET.dwg Dec 19, 2025 - 5:12pm By: edoctor



N

GRAPHIC SCALE

200 100 0 200 400 600

1" = 200'

LEGEND

- 1100 — EXISTING TOPOGRAPHY, 10-FT INTERVAL (1)(2)
- APPROXIMATE LANDFILL PROPERTY BOUNDARY(3)
- APPROXIMATE PERMITTED LIMITS OF WASTE (3)
- APPROXIMATE CELL BOUNDARY (3)
- CONTROL POINTS
- V-X — EXISTING PERIMETER MONITORING PROBE
- 19-0X — EXISTING LFG VERTICAL EXTRACTION WELL
- GV-XA — EXISTING LFG VERTICAL EXTRACTION WELL - REDRILL
- RWH01 — EXISTING LFG REMOTE WELLHEAD
- HC-1 — EXISTING LFG COLLECTOR WELLHEAD
- CS — EXISTING CONDENSATE SUMP
- 8" — EXISTING ABOVE-GRADE 8" HDPE LFG PIPE
- 6" — EXISTING ABOVE-GRADE 6" HDPE LFG PIPE
- 6" — EXISTING 6" HDPE SDR-11 PERF PIPE
- EXISTING ISOLATION VALVE
- GRAVEL PIT — EXISTING GRAVEL PIT

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET. AERIAL IMAGE IS AN APPROXIMATE LOCATION BASED ON AN ALIGNMENT USING SITE BOUNDARIES.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: EXISTING CONDITIONS AND FACILITY DEVELOPMENT PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2595

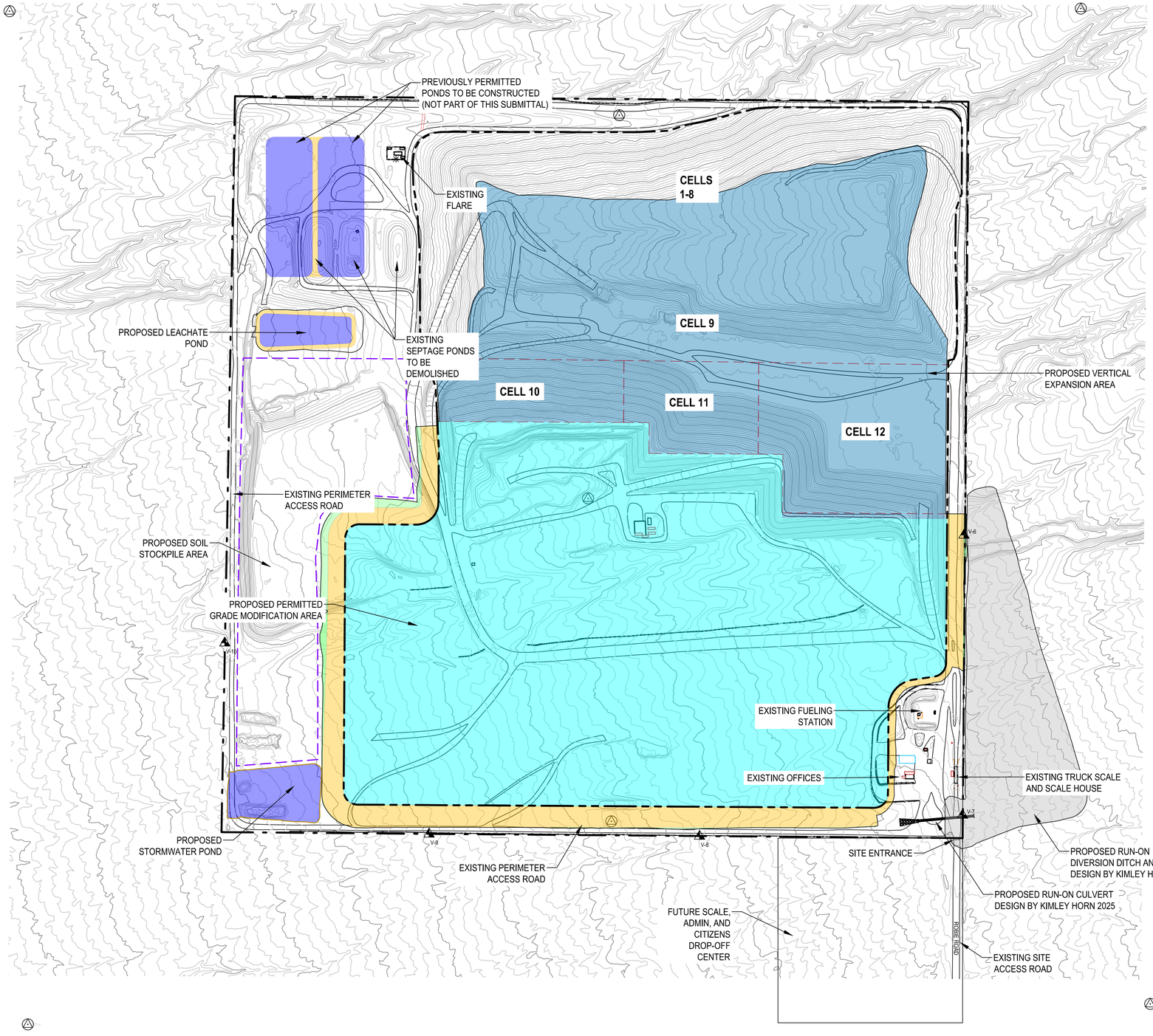
PROJ. NO: 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F1ENGINEERS | APP. BY: MPB

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 3A

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP – Eng & Permitting\Task 1\Design Plan set\3A– OVERALL LAYOUT MOHAVE LF.dwg Dec 19, 2025 – 5:12pm By: edoctor



N

GRAPHIC SCALE

200 100 0 200 400 600

1" = 200'

LEGEND

- 1100 — EXISTING TOPOGRAPHY, 2-FT INTERVAL (1)(2)
- APPROXIMATE LANDFILL PROPERTY BOUNDARY(3)
- APPROXIMATE PERMITTED LIMITS OF WASTE (3)
- APPROXIMATE CELL BOUNDARY (3)
- PROPOSED SOIL STOCKPILE AREA
- APPROXIMATE LIMITS OF PROPOSED WORK
- PROPOSED PONDS
- PROPOSED ROAD & DRAINAGE
- PROPOSED PERMITTED GRADE MODIFICATION AREA (SEE SHEET 4)
- PROPOSED VERTICAL EXPANSION AREA (SEE SHEET 6)
- PROPOSED BASIN (DESIGN BY KIMLEY HORN)
- CONTROL POINTS
- V-X FUTURE PERIMETER MONITORING PROBES

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET. AERIAL IMAGE IS AN APPROXIMATE LOCATION BASED ON AN ALIGNMENT USING SITE BOUNDARIES.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE | REVISION | NO.

SHEET TITLE: PROPOSED FACILITY DEVELOPMENT PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

47980 MICHAEL P. BRADFORD Registered Professional Engineer ARIZONA, U.S.A. 3/31/26

EXPIRES 06/30/2026

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

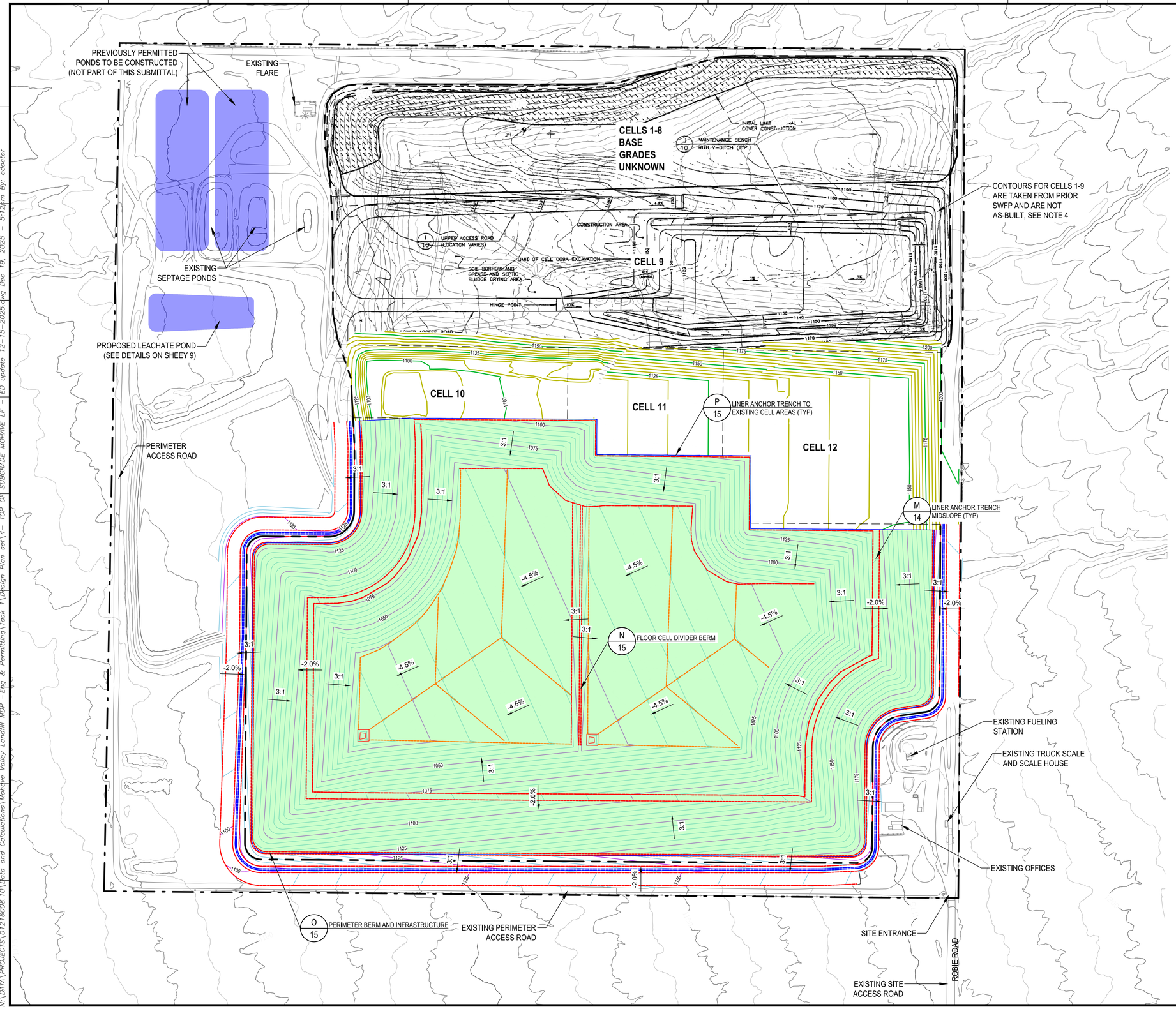
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | APP. BY: MPB | ACAD FILE: ENGINEERS

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 3B

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP – Eng & Permitting\Task 1\Design Plan set\3B– OVERALL PROPOSED LAYOUT MOHAVE LF.dwg Dec 19, 2025 – 5:12pm By: edoctor



N

GRAPHIC SCALE

150 75 0 150 300 450

1" = 150'

LEGEND

EXISTING FEATURES

- 1100 — TOPOGRAPHY, 2-FT CONTOURS (1)(2)
- 1100 — AS-BUILT EXCAVATION, 2-FOOT CONTOURS (4)
- APPROXIMATE LANDFILL PROPERTY BOUNDARY(3)
- APPROXIMATE PERMITTED LIMITS OF WASTE (3)
- APPROXIMATE CELL BOUNDARY (3)
- FENCE
- BUILDING/STRUCTURE
- ROAD OR BENCH

PROPOSED FEATURES

- 1100 — SUBGRADE, 2-FT CONTOURS
- GRADE BREAK
- LEACHATE FLOW LINE (SEE SHEET 5)
- STORM WATER FLOW LINE (SEE SHEET 7)
- LINER ANCHOR AND LINER LIMITS
- GEOSYTHETIC BOTTOM LINER AREA
- PROPOSED PONDS

A 11 Q 15

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY FIRMATEK, LLC. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.
4. AS-BUILT EXCAVATION CONTOURS FOR CELLS 10, 11, AND 12 WERE PROVIDED BY THE CLIENT. THE EXCAVATION GRADES FOR CELL 9 ARE SHOWN BASED ON THE PERMIT DRAWING SET, DRAWING 3 "CELL 9A EXCAVATION PLAN," PREPARED BY VECTOR, DATED 1997.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

47980 MICHAEL P. BRADFORD Registered Professional Engineer ARIZONA, U.S.A. 3/31/26

EXPIRES 06/30/2026

NO.	REVISION	DATE

SHEET TITLE: EXISTING AND PROPOSED TOP OF SUBGRADE ELEVATIONS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

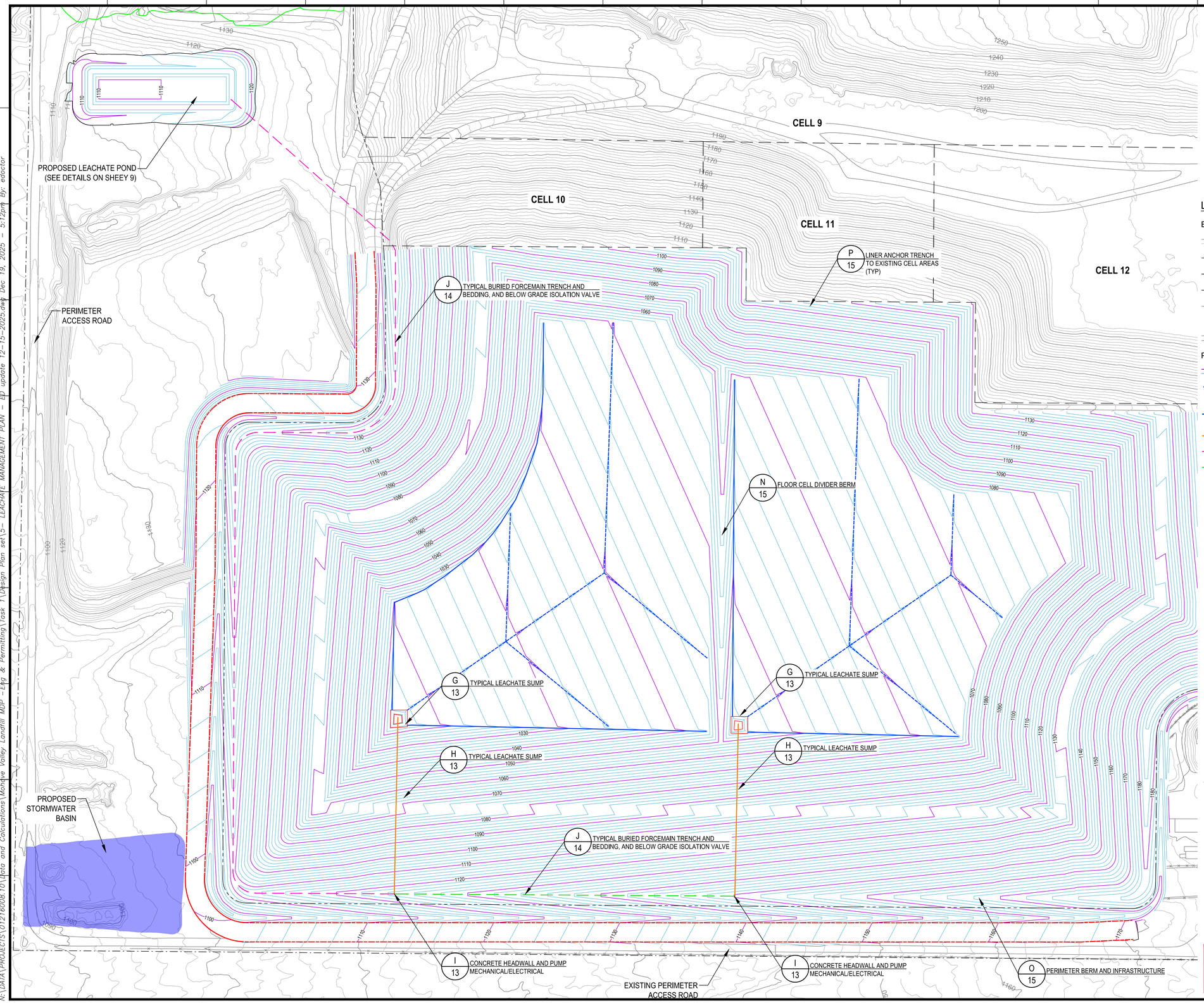
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | Chk. BY: AAS | APP. BY: MPB | ACAD FILE: ENGINEERS

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 4

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\4 - TOP OF SUBGRADE MOHAVE LF - ED update 12-15-2025.dwg Dec 19, 2025 - 5:12pm By: edoctor



GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

47980 MICHAEL P. BRADFORD Date Signed: 3/31/25 REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A.
EXPIRES 06/30/2026

DATE | REVISION | NO.

SHEET TITLE: LEACHATE MANAGEMENT SITE PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT:

SEAL OF MOHAVE COUNTY ARIZONA 1864 DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 345-2396

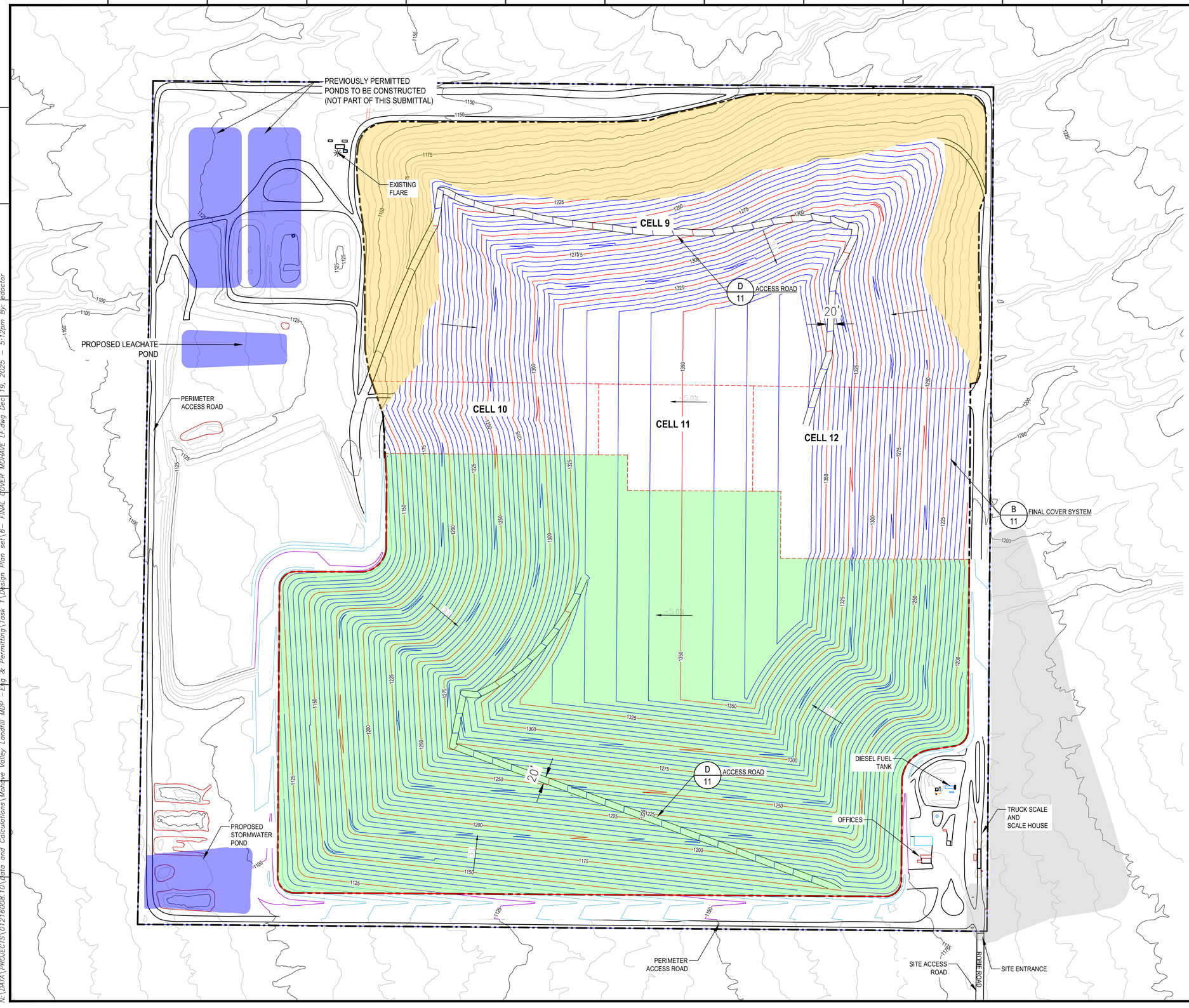
ACAD FILE: F:\ENGINEERS
DWN: BY: MM | CHK: BY: AAS | APP: BY: MPB
PROJ. NO. 01216008.10 | DSN: BY: MM

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 5

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\5- LEACHATE MANAGEMENT PLAN - ED update 12-15-2025.dwg Dec 19, 2025 - 5:12pm By: edoctor



N

GRAPHIC SCALE

150 75 0 150 300 450

1" = 150'

LEGEND

EXISTING FEATURES

- 1100 — TOPOGRAPHY, 5-FT CONTOURS (1)(2)
- APPROXIMATE LANDFILL PROPERTY BOUNDARY(3)
- APPROXIMATE PERMITTED LIMITS OF WASTE (3)
- APPROXIMATE CELL BOUNDARY (3)
- FENCE
- BUILDING/STRUCTURE
- ROAD OR BENCH
- AREA AT FINAL GRADE

PROPOSED FEATURES

- 1100 — FINAL COVER, 5-FT CONTOURS
- 1100 — PROPOSED PONDS, PERIMETER ROAD
- DEVELOPMENT AREA FOR FUTURE LINED CELLS
- BASE LINER/FINAL COVER ANCHOR TRENCH (Q 15)
- PROPOSED POND
- PROPOSED BASIN (DESIGN BY KIMLEY HORN)

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE

REVISION

NO.

SHEET TITLE: FINAL COVER GRADING PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

47980
MICHAEL P.
BRADFORD
3/31/26
REGISTERED
PROFESSIONAL
ENGINEER
ARIZONA, U.S.A.
EXPIRES
06/30/2026

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

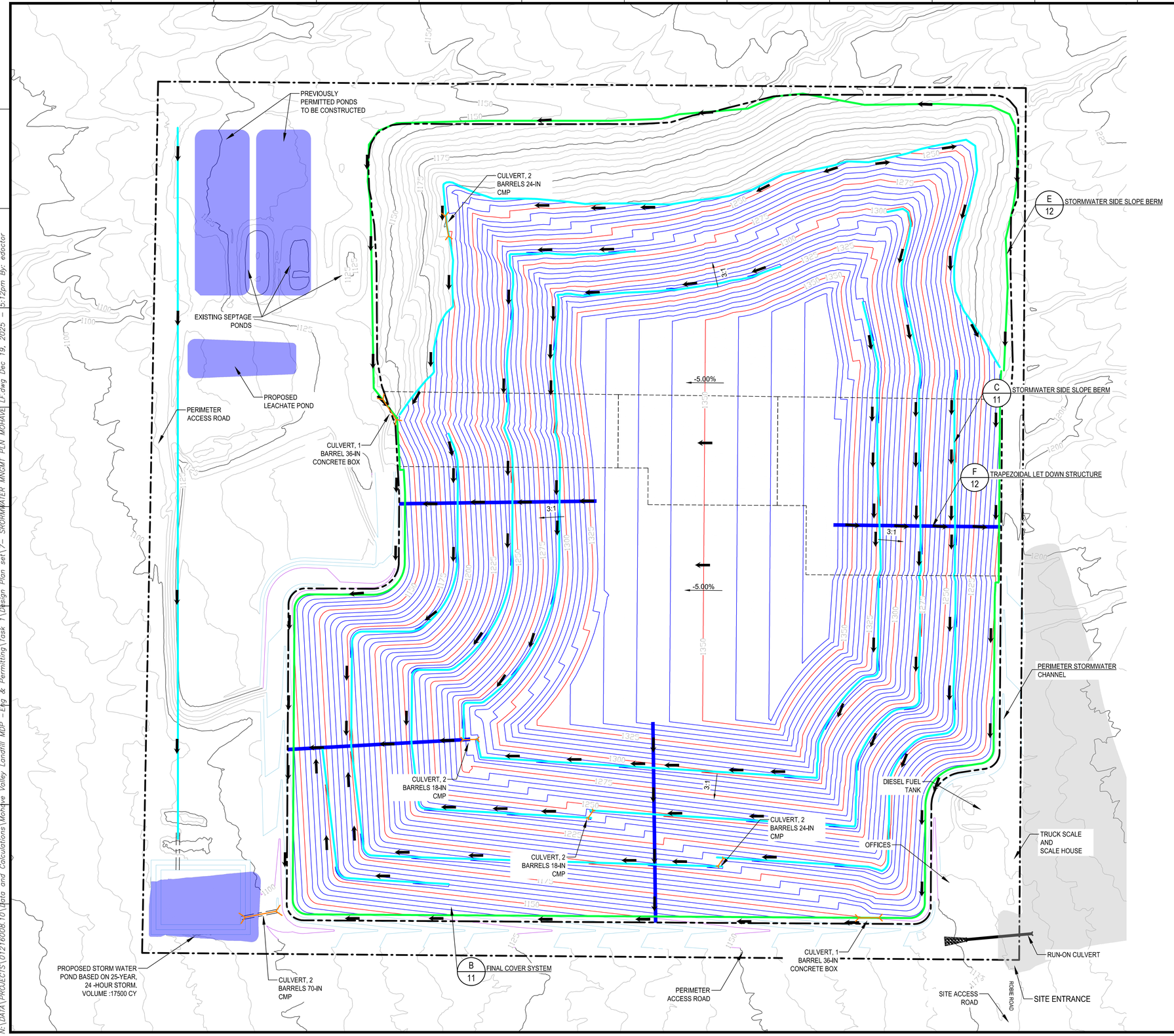
ACAD FILE: F:\ENGINEERS
APP. BY: MPB
DWN. BY: MM
CHK. BY: AAS
PROJ. NO. 01216008.10
DSN. BY: MM

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 6

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\6- FINAL COVER MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: pdoctor



N

GRAPHIC SCALE

150 75 0 150 300 450

1" = 150'

LEGEND

EXISTING FEATURES

- 1100 — TOPOGRAPHY, 5-FT CONTOURS (1)(2)
- APPROXIMATE LANDFILL PROPERTY BOUNDARY(3)
- APPROXIMATE PERMITTED LIMITS OF WASTE (3)
- APPROXIMATE CELL BOUNDARY (3)
- FENCE
- BUILDING/STRUCTURE
- ROAD OR BENCH

PROPOSED FEATURES

- 1100 — FINAL COVER, 5-FT CONTOURS
- GRADE BREAK
- STORM WATER CHANNELS
- TOE CHANNEL
- TRAPEZOIDAL LET DOWN STRUCTURES (E 12, C 11, F 12)
- FLOW DIRECTION
- CULVERT
- PROPOSED POND
- PROPOSED BASIN (DESIGN BY KIMLEY HORN)

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE | REVISION | NO.

SHEET TITLE: STORMWATER MANAGEMENT PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

47980 MICHAEL P. BRADFORD Date Signed 3/31/26 ARIZONA, U.S.A.

EXPIRES 06/30/2026

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

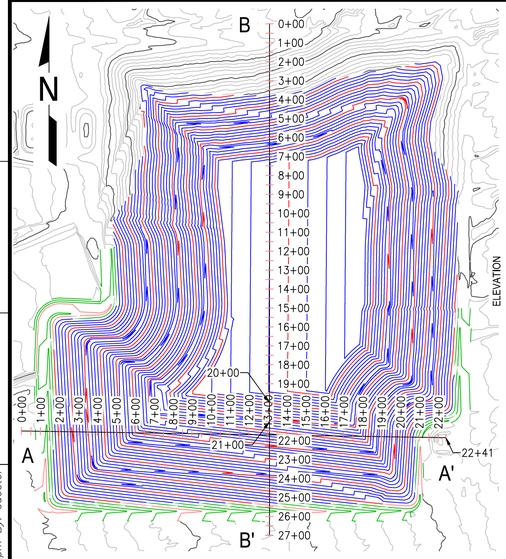
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | APP. BY: MPB | ACAD FILE: F:\ENGINEERS

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 7

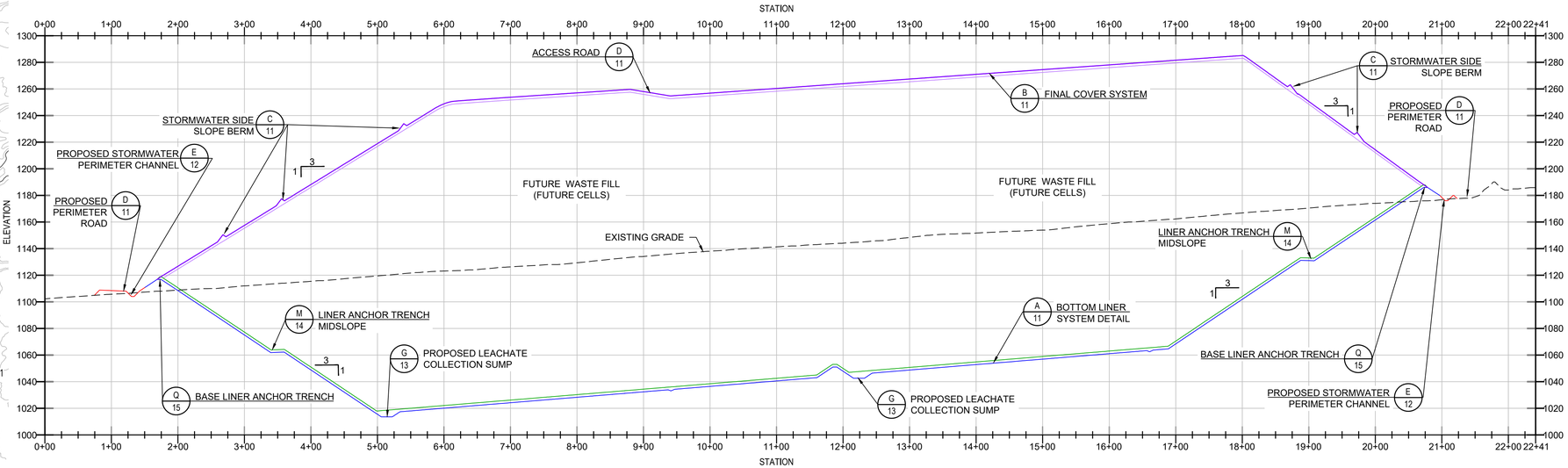
N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\7- SRORMWATER MNGMT PLN MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor



GRAPHIC SCALE

400 200 0 400 800 1200

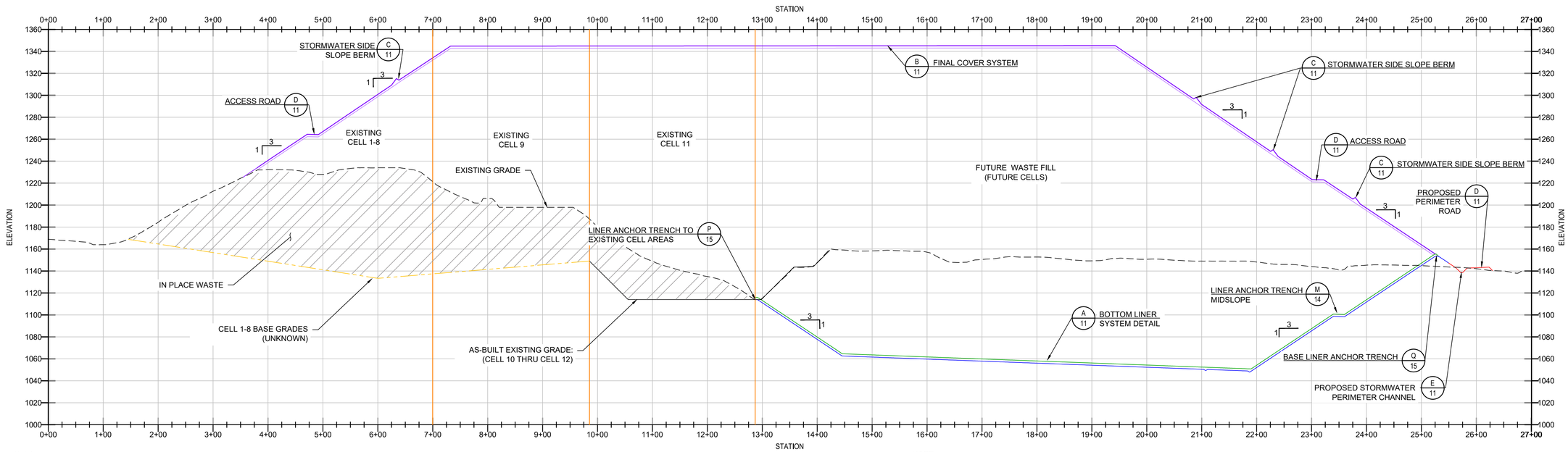
1" = 400'



SECTION A-A'

SCALE:
HORIZONTAL 1" = 100'
VERTICAL 1" = 50'

9



SECTION B-B'

SCALE:
HORIZONTAL 1" = 100'
VERTICAL 1" = 50'

9

LEGEND:

- EXISTING GRADE
- CELL 10-12 AS-BUILTS
- PROPOSED PERIMETER INFRASTRUCTURE
- PROPOSED TOP OF WASTE
- PROPOSED TOP OF COVER
- PROPOSED TOP OF SUBGRADE
- PROPOSED TOP OF PROTECTIVE COVER (BOTTOM OF WASTE)
- CELL BOUNDARY
- CELL 1-8 UNKNOWN BASE GRADES

NOTE:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY FIRMATEK, LLC. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET..
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.
4. PERIMETER INFRASTRUCTURE GRADES SHOWN ARE SUBJECT TO CHANGE TO ACCOMMODATE FIELD CONDITIONS AT THE TIME OF CELL CONSTRUCTION. SEE DRAWING 7 FOR GENERAL STORM WATER MANAGEMENT PLAN.
5. PLAN VIEW THIS SHEET IS INTENDED ONLY TO SHOW PROPOSED FINAL COVER CONTOURS, FOR DETAILED STORMWATER MANAGEMENT PLAN SEE SHEET 7.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE
REVISION
NO.

SHEET TITLE: FINAL COVER GRADING PLAN

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT:

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2586

ACAD FILE: F:\ENGINEERS
APP. BY: MPB
DWN. BY: MM
CHK. BY: AAS
PROJ. NO: 01216008.10
DSN. BY: MM

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 8

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\8- CROSS SECTIONS.dwg Dec 19, 2025 - 5:12pm By: edoctor

PERVIOUSLY PERMITTED PONDS
TO BE CONSTRUCTED

1128
1126
1124
1122
1120
1118
1116
1114
1112
1110

A 10 1+00

3:1

LEACHATE POND CONTAINMENT
BERM AND ANCHOR TRENCH U 16

B 10 0+00

T 16 LEAK DETECTION SUMP

1+00 2+00 3+00 4+00

B' 10

1%

1%

2%

LEAK PIPE SLOPE RISER
DETAIL V 16

A' 10 1+63

N

GRAPHIC SCALE

20 10 0 20 40 60

1" = 20'

LEGEND

EXISTING FEATURES

100 EXISTING TOPOGRAPHY, 2-FT INTERVAL

PROPOSED FEATURES

100 PROPOSED POND CONTOURS, 2-FT INTERVAL

LINER SYSTEM ANCHOR TRENCH S 16

POND LINER SYSTEM AREA R 16

GRADING BREAK LINE

PREVIOUSLY PERMITTED PONDS

47980
MICHAEL P.
BRADFORD
Date Signed 3/31/26
ARIZONA, U.S.A.
EXPIRES
06/30/2026

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE | REVISION | NO.

SHEET TITLE: LEACHATE POND GRADING PLAN LAYOUT

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT:

SEAL OF MOHAVE COUNTY ARIZONA 1864 DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 940-2598

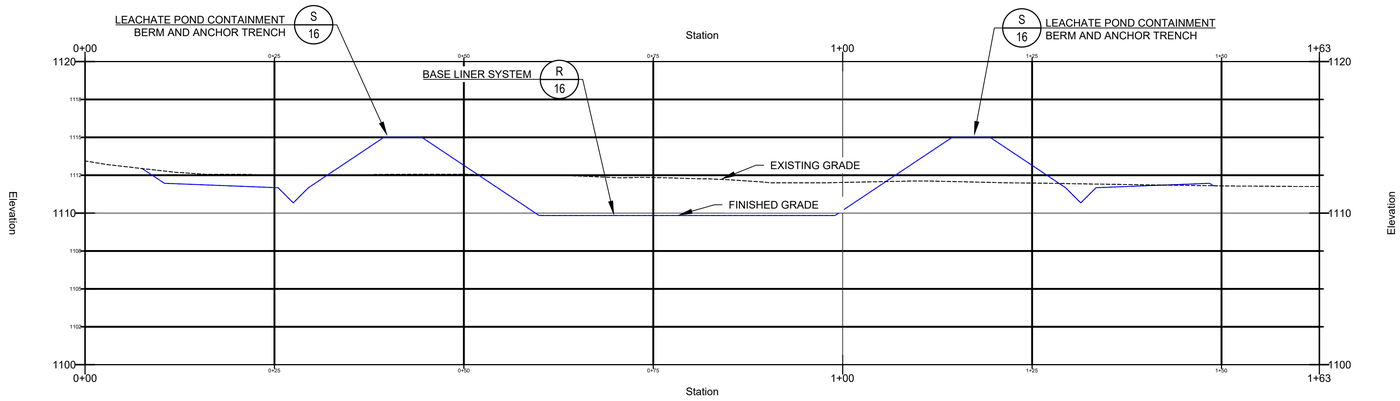
PROJ. NO: 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AAS | ACAD FILE: F:\ENGINEERS | APP. BY: MPB

DATE: 12-18-2025

SCALE: AS SHOWN

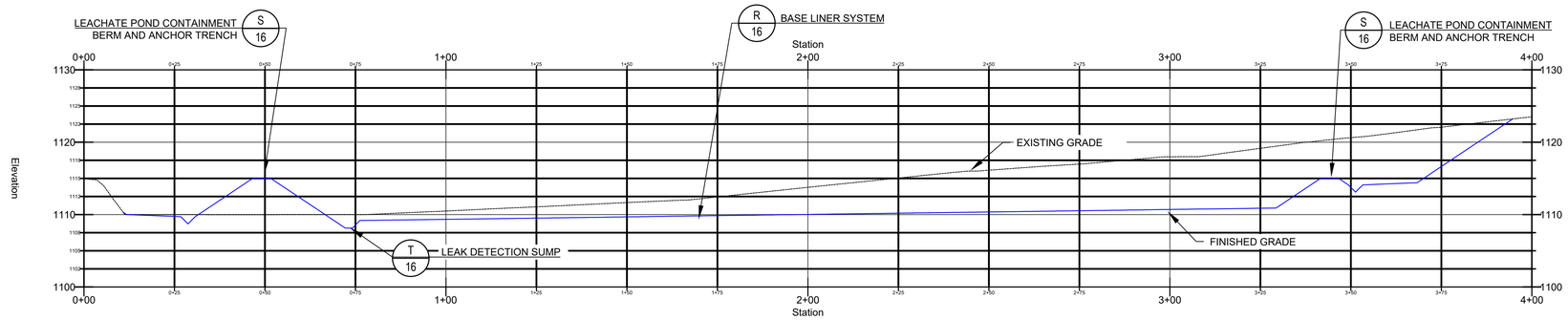
SHEET: 9

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP – Eng & Permitting\Task 1\Design Plan set\pond sizing and grading (DWG)\LEACHATE POND GRADING PLAN – 12-18-2025.dwg Dec 19, 2025 – 5:12pm By: ejactor



SECTION A/10

SCALE:
HORIZONTAL 1" = 10'
VERTICAL 1" = 5'



SECTION B/10

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

N

GRAPHIC SCALE
30 15 0 30 60 90
1" = 30'

LEGEND:

EXISTING GRADE

PROPOSED TOP OF SUBGRADE

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: LEACHATE POND GRADING PLAN CROSS SECTION

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA • 1864 • DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

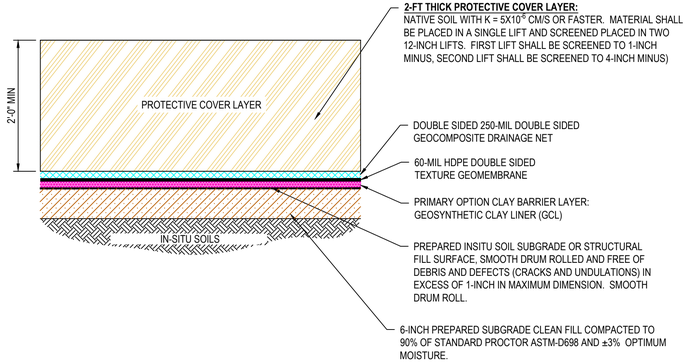
DSN. BY:	PROJ. NO.	DWN. BY:	CHK. BY:	ACAD FILE:	APP. BY:
MM	01216008.10	MM	AAS	F:\ENGINEERS	MPB

DATE: 12-18-2025

SCALE: AS SHOWN

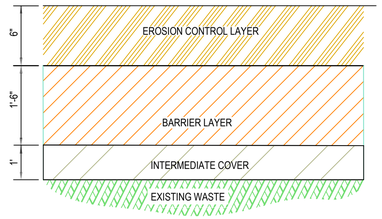
SHEET: 10

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP – Eng & Permitting\Task 1\Design Plan set\pond sizing and grading (DWG)\LEACHATE POND GRADING PLAN – 12-18-2025.dwg Dec 19, 2025 – 5:12pm By: ebactor



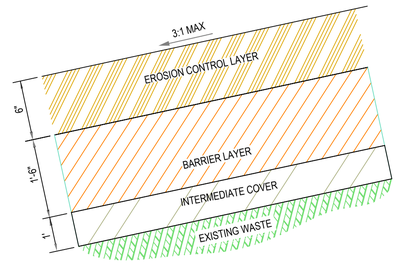
BOTTOM LINER SYSTEM DETAIL

DETAIL A/11 — N.T.S



TOP DECK SYSTEM

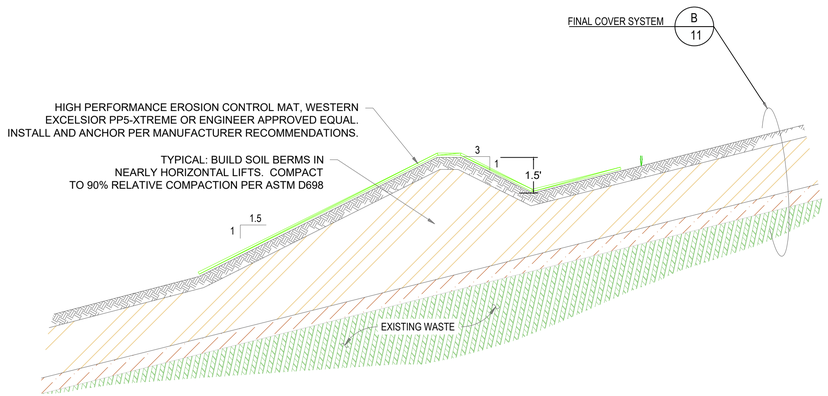
NOTE:
SEE DETAIL C THIS SHEET FOR CREST DRAIN



SIDE SLOPE SYSTEM

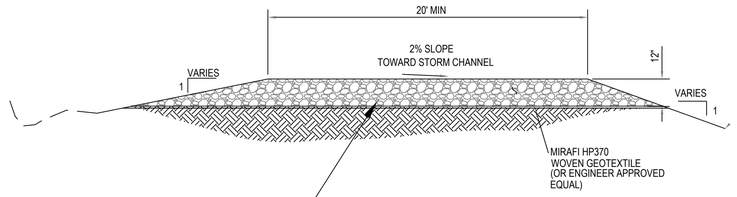
FINAL COVER SYSTEM

DETAIL B/11 — N.T.S



STORMWATER SIDE SLOPE BERM

DETAIL C/11 — N.T.S.



ACCESS ROAD (TYP.)

DETAIL D/11 — N.T.S.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: MOHAVE COUNTY ARIZONA · SEAL OF · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

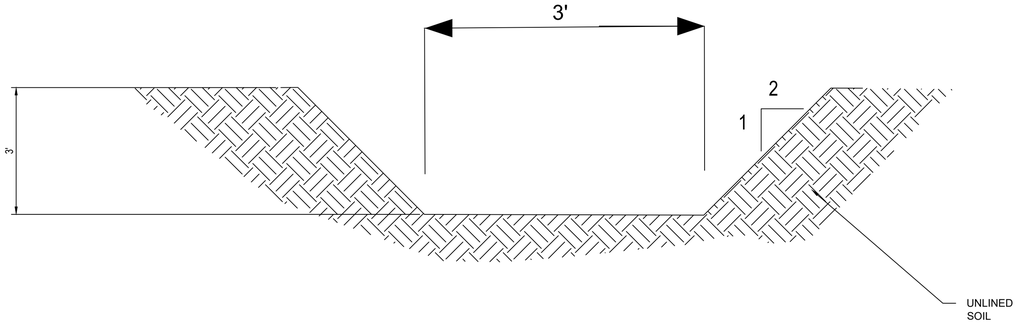
PROJ. NO.	DSN. BY:	DWN. BY:	CHK. BY:	ACAD. FILE:	APP. BY:
01216008.10	MM	MM	AA	F:\ENGINEERS	MPB

DATE: 12-12-2025

SCALE: AS SHOWN

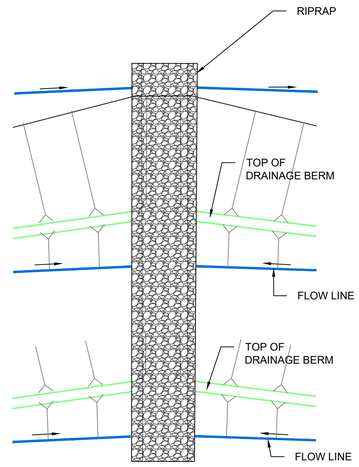
SHEET: 11

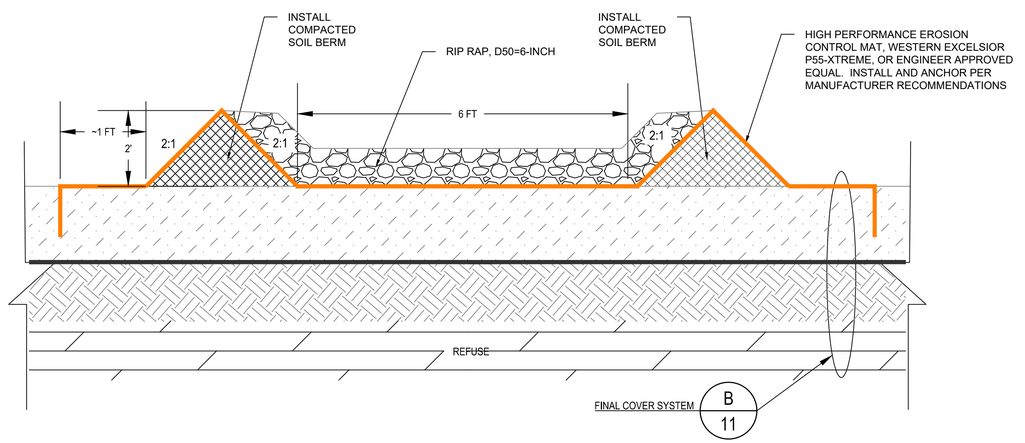
N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor



TOE CHANNEL (TYP)

DETAIL E/12 N.T.S.





TRAPEZOIDAL LET DOWN STRUCTURE

DETAIL F/12 N.T.S.

47980
MICHAEL P.
BRADFORD
3/31/26
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.
EXPIRES
06/30/2026

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX (562) 427-0805

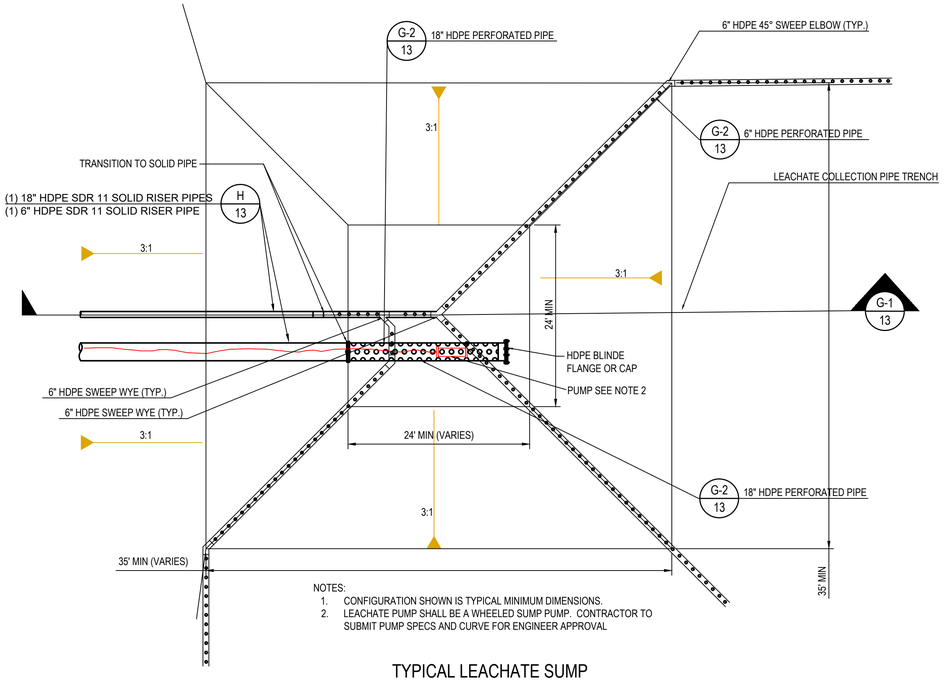
PROJ. NO. 01216008.10 | DSN. BY: MM | DWN. BY: MM | CHK. BY: AA | APP. BY: MPB | ACAD FILE: F-ENGINEERS

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 12

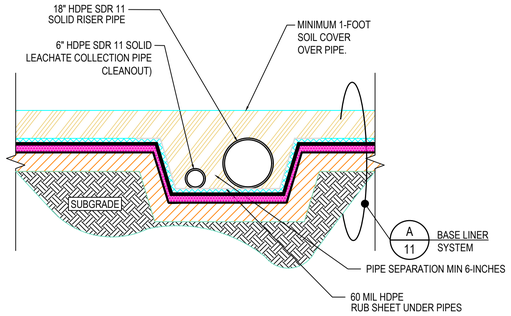
N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor



NOTES:
1. CONFIGURATION SHOWN IS TYPICAL MINIMUM DIMENSIONS.
2. LEACHATE PUMP SHALL BE A WHEELED SUMP PUMP. CONTRACTOR TO SUBMIT PUMP SPECS AND CURVE FOR ENGINEER APPROVAL

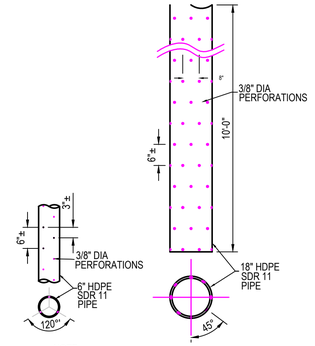
TYPICAL LEACHATE SUMP

DETAIL G/13
N.T.S



LEACHATE SUMP RISER PIPES

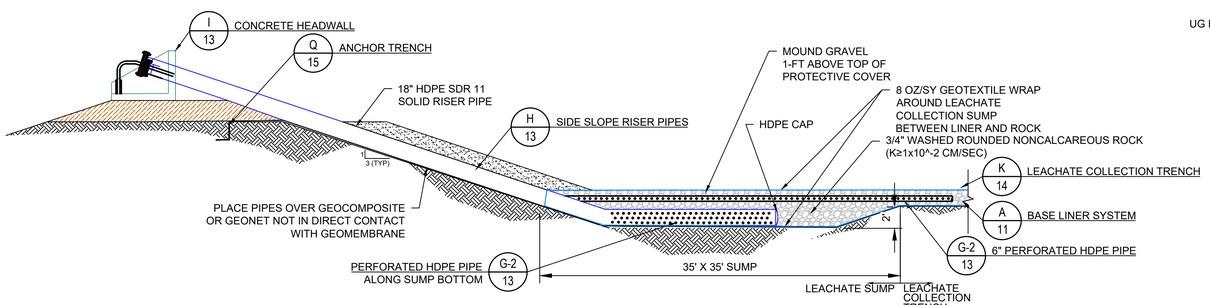
DETAIL H/13
N.T.S



NOTE:
PERFORATIONS BUILT TO MANUFACTURER STANDARD.

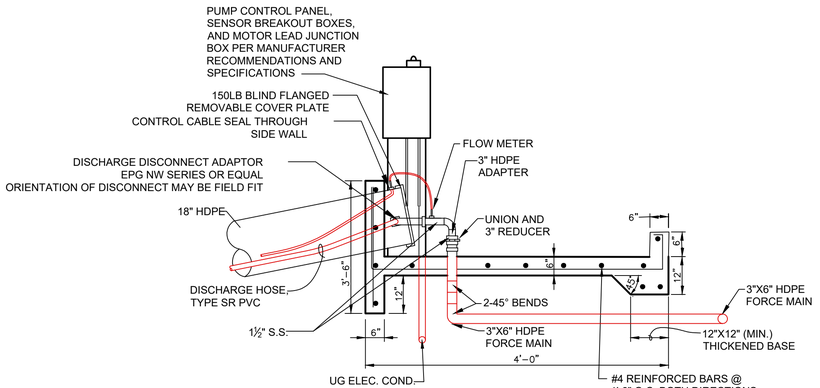
LEACHATE COLLECTION PIPE PERFORATIONS

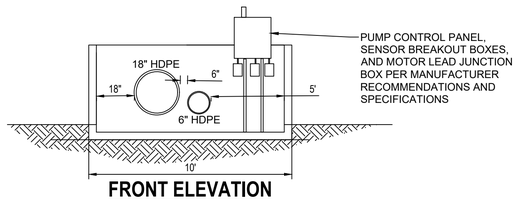
DETAIL G-2/13
N.T.S



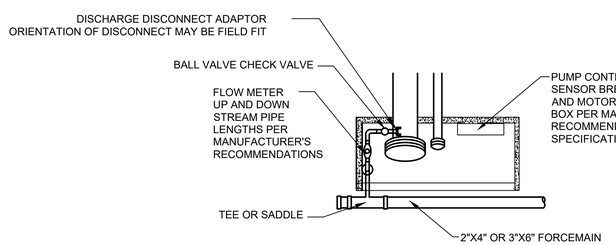
LEACHATE COLLECTION SUMP

DETAIL G-1/13
N.T.S.





FRONT ELEVATION



ASSMBLY DETAIL

CONCRETE HEADWALL AND PUMP MECHANICAL/ELECTRICAL

DETAIL I/13
N.T.S

DETAIL N/L12 NOTES:
1. ELECTRICAL AND POWER CONNECTIONS TO BE PROVIDED BY LICENSED ELECTRICIAN
2. CAP ALL RISER PIPE ENDS WITH HDPE FLANGED ADAPTOR WITH D.I. BACKUP RING AND BLIND FLANGE150LB BOLT PATTERN AND STAINLESS STEEL BOLTS AND NUTS.
3. DISCHARGE ASSEMBLY VALVES, FITTINGS AND METERS, TO MATCH DISCHARGE HOSE PIPE DIAMETER PRIOR TO 3" FM REDUCER. ASSEMBLY MATERIALS SHALL BE HDPE OR PE AND BUTT FUSED TOGETHER.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE | REVISION | NO.

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA · DITAT DEUS · 1864

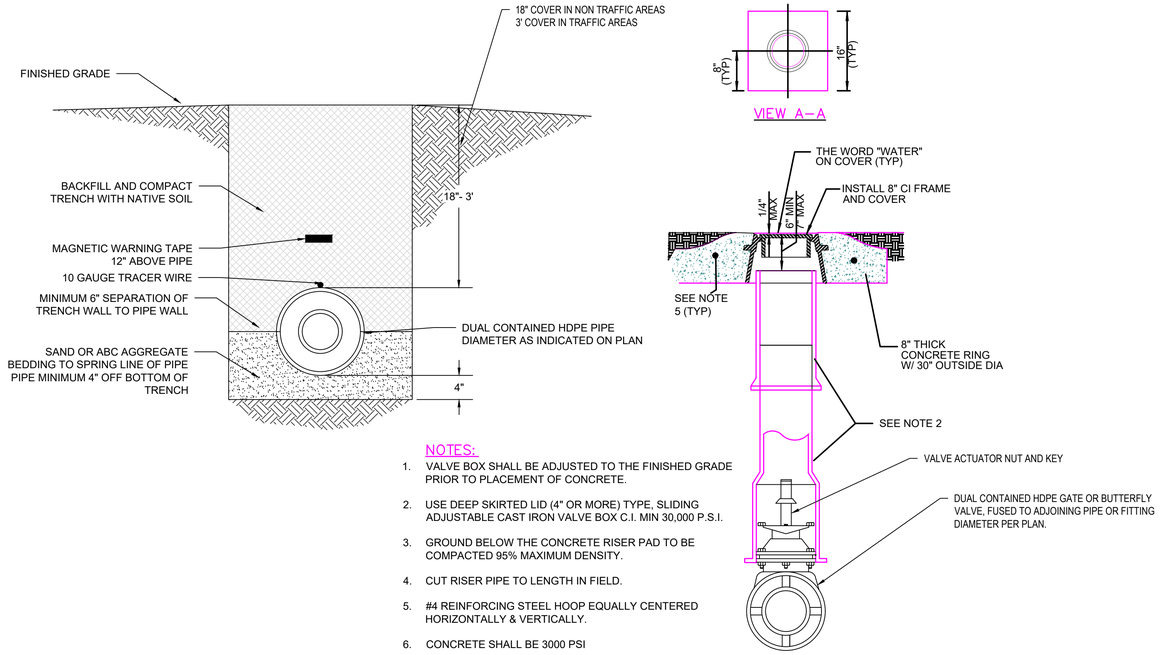
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX. (562) 427-0805

ACAD FILE: F:\ENGINEERS
APP. BY: MPB
DWN. BY: MM
CHK. BY: AA
PROJ. NO: 01216008.10
DSN. BY: MM

DATE: 12-18-2025
SCALE: AS SHOWN
SHEET: 13

47980 MICHAEL P. BRADFORD
Date Signed: 3/31/26
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
EXPIRES 06/30/2026

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor

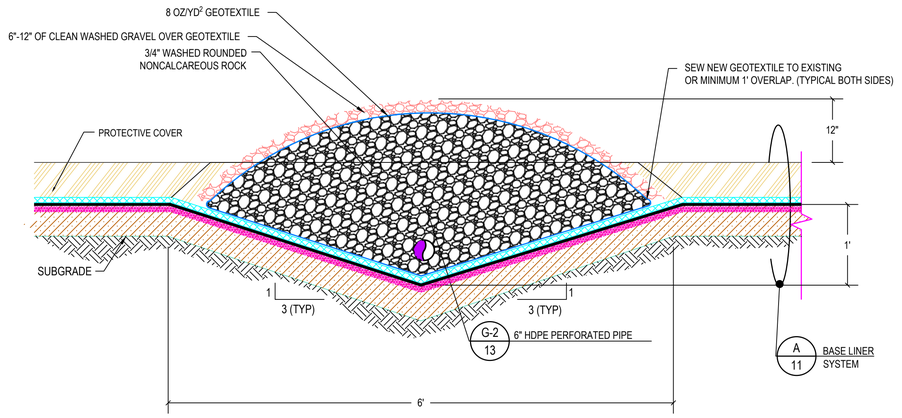


NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE PRIOR TO PLACEMENT OF CONCRETE.
2. USE DEEP SKIRTED LID (4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE BOX C.I. MIN 30,000 P.S.I.
3. GROUND BELOW THE CONCRETE RISER PAD TO BE COMPACTED 95% MAXIMUM DENSITY.
4. CUT RISER PIPE TO LENGTH IN FIELD.
5. #4 REINFORCING STEEL HOOP EQUALLY CENTERED HORIZONTALLY & VERTICALLY.
6. CONCRETE SHALL BE 3000 PSI

TYPICAL BURIED FORCEMAIN TRENCH AND BEDDING, AND BELOW GRADE ISOLATION VALVE

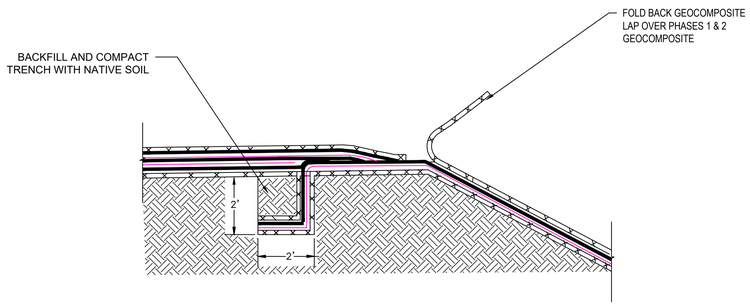
DETAIL J/14
SCALE: NOT TO SCALE



AT CENTRAL TRENCH

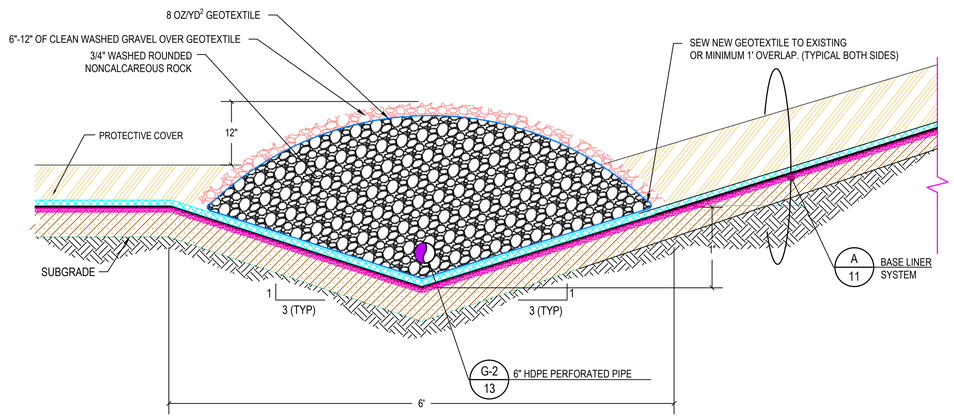
LEACHATE COLLECTION PIPE AND TRENCH

DETAIL K/14
N.T.S.



LINER ANCHOR TRENCH MIDSLOPE

DETAIL M/14
N.T.S.



AT TOE OF SLOPE

LEACHATE COLLECTION PIPE AND TRENCH

DETAIL L/14
N.T.S.

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

DATE | REVISION | NO.

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

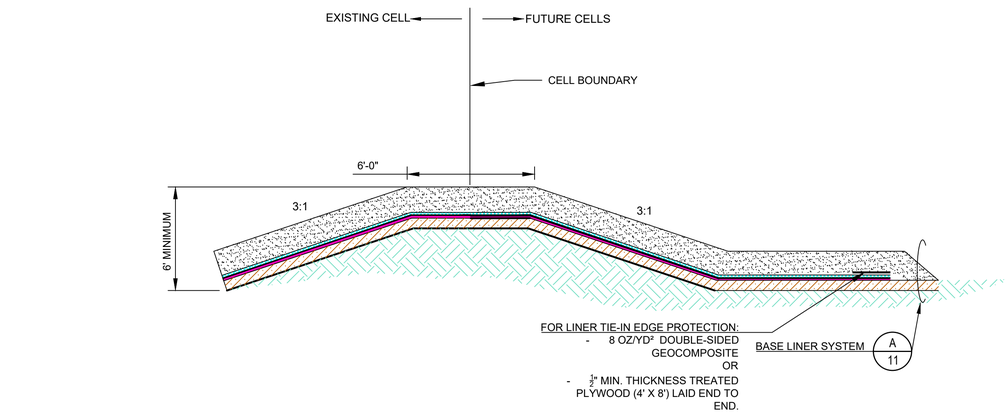
CLIENT: MOHAVE COUNTY ARIZONA SEAL OF MOHAVE COUNTY 1864 DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX (562) 427-0805

ACAD FILE: F:\ENGINEERS
DWN: BY: MM
CHK: BY: AA
APP: BY: MPB
PROJ. NO. 01216008.10
DSN: BY: MM

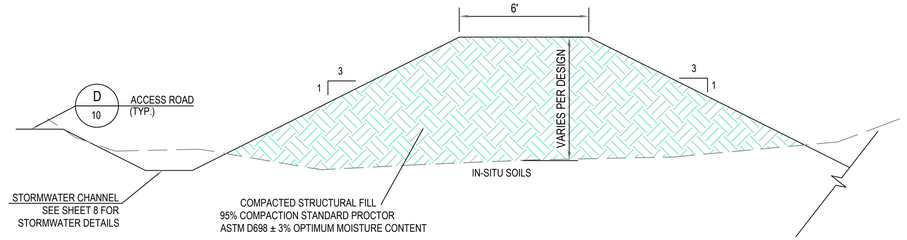
DATE: 12-18-2025
SCALE: AS SHOWN
SHEET: 14

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor



FLOOR CELL DIVIDER BERM & FUTURE TIE IN LEADING EDGE

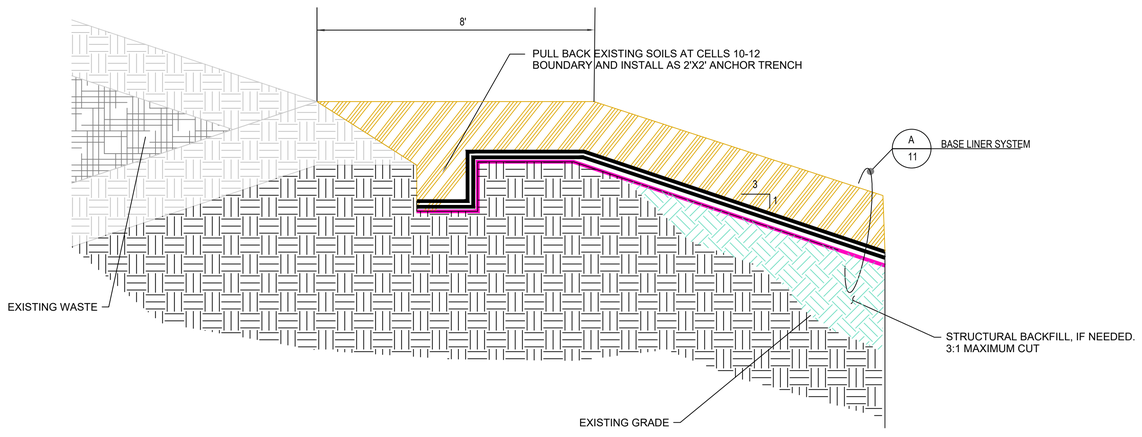
DETAIL N
N.T.S. 15



NOTE:
BOTTOM LINER AND ANCHOR TRENCH NOT SHOWN FOR CLARITY

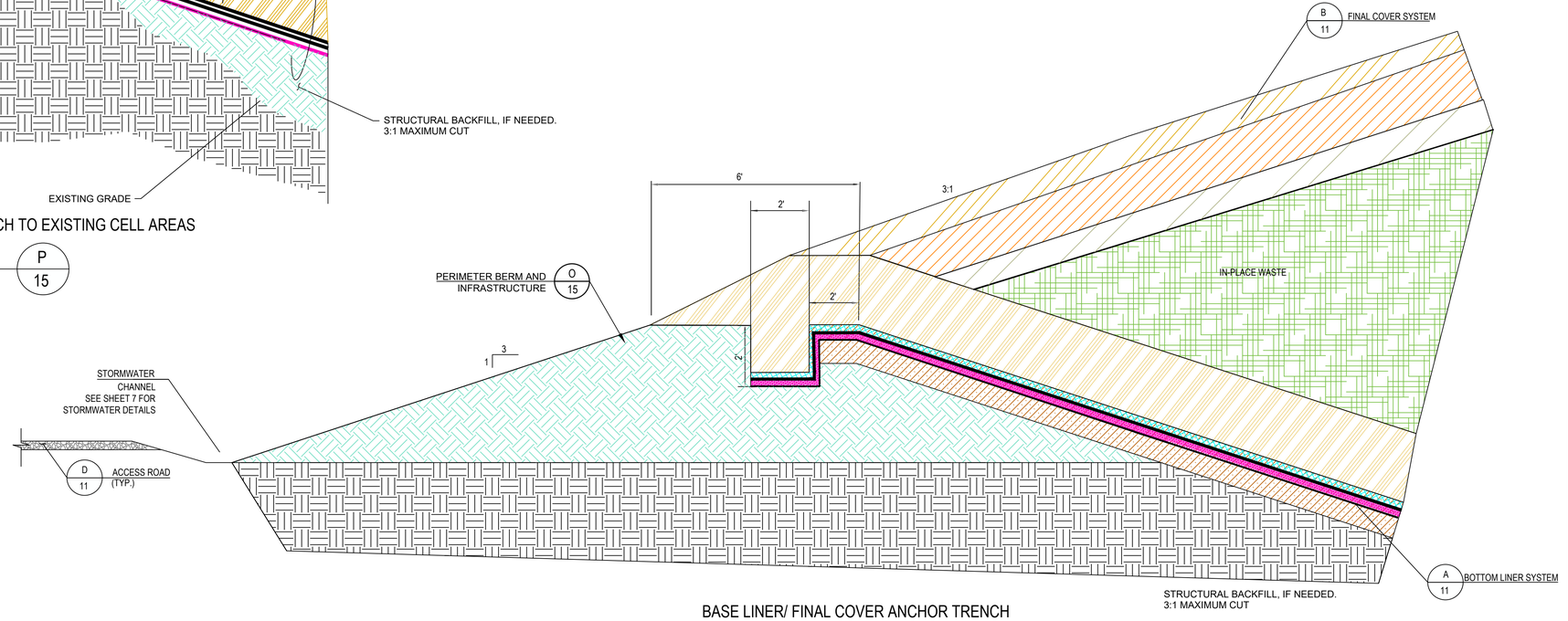
PERIMETER BERM AND INFRASTRUCTURE

DETAIL O
N.T.S. 15



LINER ANCHOR TRENCH TO EXISTING CELL AREAS

DETAIL P
N.T.S. 15



BASE LINER/ FINAL COVER ANCHOR TRENCH

DETAIL Q
N.T.S. 15

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA · 1864 · DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

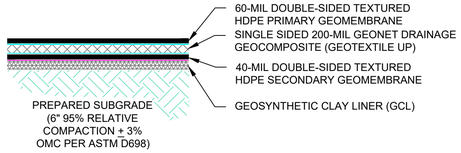
DSN: BY:	PROD. NO.	CHK. BY:	DWN. BY:	APP. BY:	ACAD FILE:
MM	01216008.10	AA	MM	MPB	F:\ENGINEERS

DATE: 12-18-2025

SCALE: AS SHOWN

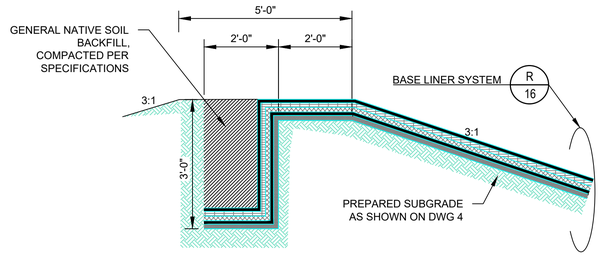
SHEET: 15

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor



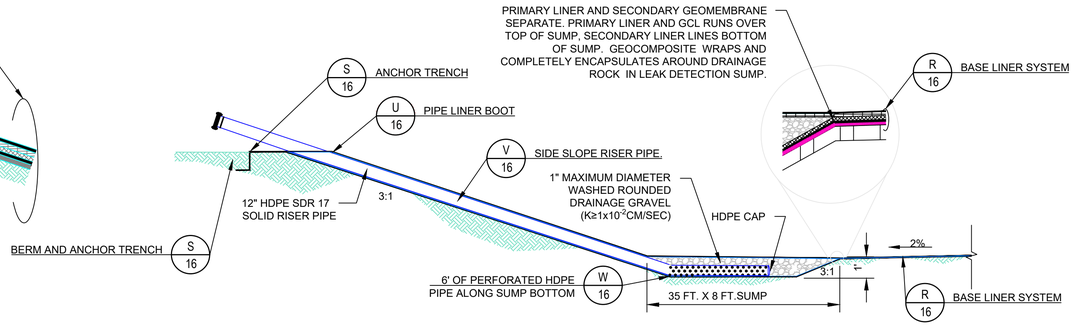
POND BASE LINER SYSTEM

DETAIL R/16 N.T.S.



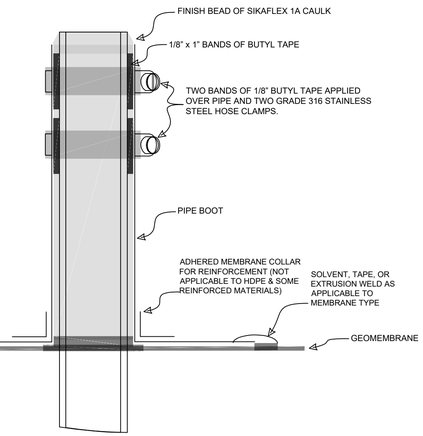
LEACHATE POND CONTAINMENT BERM AND ANCHOR TRENCH

DETAIL S/16 N.T.S.



POND LEAK DETECTION SUMP

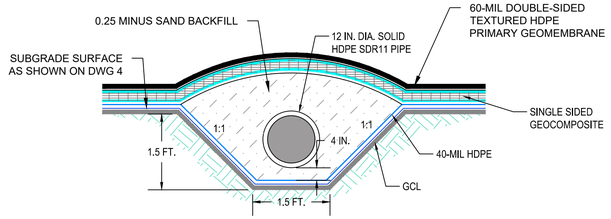
DETAIL T/16 N.T.S.



VERTICAL WALL PIPE BOOT DETAIL – PROFILE VIEW

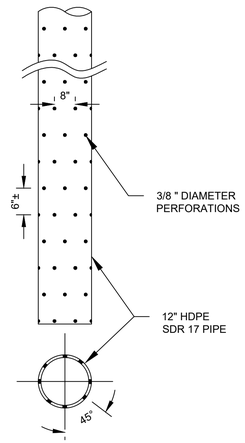
LINER PIPE BOOT

DETAIL U/16 N.T.S.



LEAK PIPE SLOPE RISER DETAIL

DETAIL V/16 N.T.S.



NOTE:
PERFORATIONS BUILT TO MANUFACTURER STANDARD.

PIPE PERFORATIONS

DETAIL W/16 N.T.S.

47980 MICHAEL P. BRADFORD 3/31/26 Date Signed REGISTERED PROFESSIONAL ENGINEER ARIZONA, U.S.A.
EXPIRES 06/30/2026

PERMIT DRAWINGS
NOT FOR CONSTRUCTION

NO.	REVISION	DATE

SHEET TITLE: DETAILS

PROJECT TITLE: SOLID WASTE FACILITY PLAN 2026 TYPE IV MODIFICATION

CLIENT: SEAL OF MOHAVE COUNTY ARIZONA 1864 DITAT DEUS

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

ACAD FILE: F:\ENGINEERS
DWN: BY: MM
CHK: BY: AA
APP: BY: MPB
PROJ. NO. 01216008.10
DSN: BY: MM

DATE: 12-18-2025

SCALE: AS SHOWN

SHEET: 16

N:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Design Plan set\9- LINER DETAILS MOHAVE LF.dwg Dec 19, 2025 - 5:12pm By: edoctor

Appendix B

Climatological Data

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Summary of Monthly Normals 1991-2020

Generated on 11/13/2025

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 531 ft. Lat: 35.1411° N Lon: 114.5686° W

Station: **BULLHEAD CITY, AZ US USC00021050**

Precipitation (in.)								
	Totals	Mean Number of Days				Precipitation Probabilities Probability that precipitation will be equal to or less than the indicated amount		
	Means	Daily Precipitation				Monthly Precipitation vs. Probability Levels		
Month	Mean	>= 0.01	>= 0.10	>= 0.50	>= 1.00	0.25	0.50	0.75
01	1.01	3.0	2.2	0.7	0.1	0.03	0.44	1.80
02	1.15	3.0	2.1	0.8	0.2	0.31	0.84	1.57
03	0.76	2.2	1.7	0.7	0.1	0.05	0.41	0.95
04	0.14	0.8	0.5	0.1	0.1	0.00	0.00	0.21
05	0.08	0.4	0.2	0.0	0.0	0.00	0.00	0.07
06	0.01	0.2	0.1	0.0	0.0	0.00	0.00	0.00
07	0.23	1.2	0.6	0.1	0.1	0.00	0.11	0.26
08	0.48	1.4	1.0	0.4	0.1	0.00	0.14	0.68
09	0.18	1.3	0.7	0.1	0.0	0.00	0.05	0.36
10	0.50	1.4	0.9	0.4	0.2	0.00	0.07	0.27
11	0.39	1.1	0.8	0.2	0.0	0.00	0.10	0.48
12	0.47	2.0	1.0	0.3	0.1	0.00	0.16	1.02
Summary	5.40	18.0	11.8	3.8	1.0	0.39	2.32	7.67

Empty or blank cells indicate data is missing or insufficient occurrences to compute value

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Summary of Monthly Normals 1991-2020

Generated on 11/13/2025

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 531 ft. Lat: 35.1411° N Lon: 114.5686° W

Station: **BULLHEAD CITY, AZ US USC00021050**

Temperature (°F)

	Mean						Cooling Degree Days						Heating Degree Days				Mean Number of Days					
							Base (above)						Base (above)									
Month	Daily Max	Daily Min	Mean	Long Term Max Std Dev	Long Term Min Std Dev	Long Term Avg Std Dev	55	57	60	65	70	72	55	57	60	65	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
01	65.0	44.8	54.9	3.1	2.2	2.3	62.0	36.8	14.9	1.2	0.0	0.0	65.1	101.9	173.0	314.3	0.0	0.0	30.7	0.0	0.7	0.0
02	69.8	46.6	58.2	3.9	2.9	3.1	119.1	83.0	42.5	9.0	0.8	0.1	29.5	49.4	92.8	199.3	0.0	0.0	28.0	0.0	0.2	0.0
03	78.6	50.6	64.6	4.4	2.6	3.3	303.3	247.1	169.9	72.8	19.9	9.7	5.7	11.5	27.3	85.2	0.2	4.1	31.0	0.0	0.0	0.0
04	87.4	56.7	72.0	3.2	2.1	2.5	511.8	452.1	364.3	225.6	110.6	75.7	0.2	0.6	2.7	14.1	2.7	14.7	30.0	0.0	0.0	0.0
05	96.3	65.8	81.1	3.9	3.2	3.5	807.5	745.5	652.6	498.0	347.5	290.6	0.0	0.0	0.0	0.5	15.3	26.3	31.0	0.0	0.0	0.0
06	106.7	73.3	90.0	3.0	2.4	2.5	1050.0	990.0	899.9	749.9	600.1	540.3	0.0	0.0	0.0	0.0	26.8	29.7	30.0	0.0	0.0	0.0
07	110.7	81.1	95.9	1.8	2.7	2.1	1267.8	1205.8	1112.8	957.8	802.8	740.8	0.0	0.0	0.0	0.0	30.6	31.0	31.0	0.0	0.0	0.0
08	109.3	80.8	95.1	1.8	2.2	1.8	1241.5	1179.5	1086.4	931.4	776.4	714.5	0.0	0.0	0.0	0.0	30.4	30.9	31.0	0.0	0.0	0.0
09	102.7	72.6	87.6	2.4	1.9	1.7	979.5	919.5	829.4	679.5	529.7	469.9	0.0	0.0	0.0	0.0	24.1	29.2	30.0	0.0	0.0	0.0
10	89.4	61.2	75.3	3.2	2.4	2.4	629.4	567.5	475.3	325.6	190.3	143.7	0.1	0.2	1.0	6.3	4.9	19.1	31.0	0.0	0.0	0.0
11	74.2	50.5	62.4	3.5	3.3	3.2	234.9	185.7	122.6	51.1	14.2	7.0	14.4	25.1	52.1	130.6	0.0	0.8	30.0	0.0	0.1	0.0
12	63.6	43.9	53.7	2.4	2.2	1.8	45.7	25.3	8.9	0.9	0.0	0.0	84.4	125.9	202.4	349.5	0.0	0.0	31.0	0.0	1.1	0.0
Summary	87.8	60.7	74.2	3.1	2.5	2.5	7252	6638	5779	4503	3392	2992	199	315	551	1100	135.0	185.8	364.7	0.0	2.1	0.0

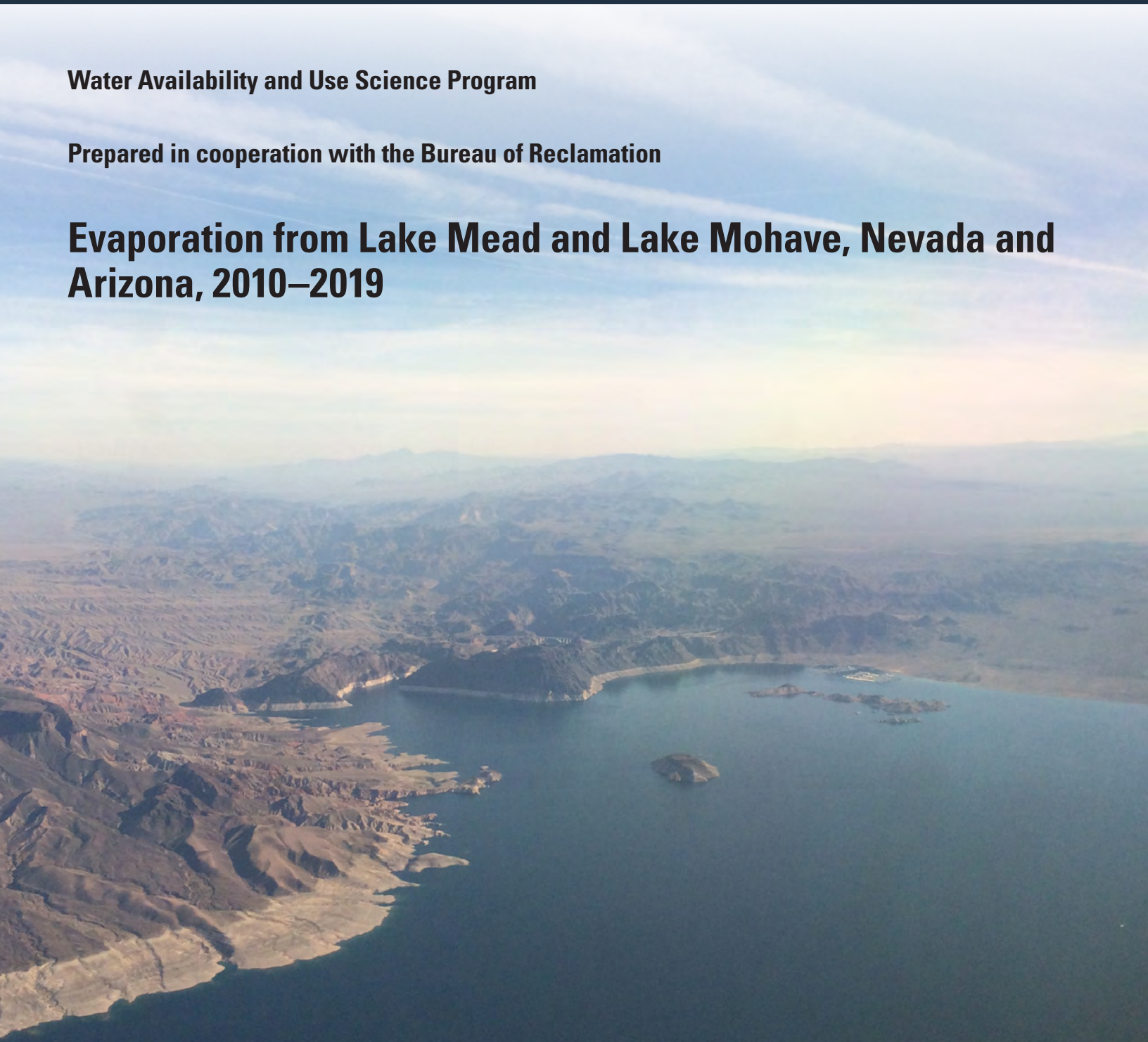
Empty or blank cells indicate data is missing or insufficient occurrences to compute value

USGS
science for a changing world

Water Availability and Use Science Program

Prepared in cooperation with the Bureau of Reclamation

Evaporation from Lake Mead and Lake Mohave, Nevada and Arizona, 2010–2019



Open-File Report 2021–1022

U.S. Department of the Interior
U.S. Geological Survey

Cover photo: Looking south at Boulder Basin in Lake Mead. Photograph taken by Michael Rosen, April 5, 2015.

Evaporation from Lake Mead and Lake Mohave, Nevada and Arizona, 2010–2019

By Katherine J. Earp and Michael T. Moreo

Water Availability and Use Science Program
Prepared in cooperation with the Bureau of Reclamation

Open-File Report 2021–1022

U.S. Department of the Interior
U.S. Geological Survey

U.S. Geological Survey, Reston, Virginia: 2021

For more information on the USGS—the Federal source for science about the Earth, its natural and living resources, natural hazards, and the environment—visit https://www.usgs.gov or call 1–888–ASK–USGS.

For an overview of USGS information products, including maps, imagery, and publications, visit https://store.usgs.gov/.

Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Although this information product, for the most part, is in the public domain, it also may contain copyrighted materials as noted in the text. Permission to reproduce copyrighted items must be secured from the copyright owner.

Suggested citation:
Earp, K.J., and Moreo, M.T., 2021, Evaporation from Lake Mead and Lake Mohave, Nevada and Arizona, 2010–2019: U.S. Geological Survey Open-File Report 2021–1022, 36 p., https://doi.org/10.3133/ofr20211022.

ISSN 2331-1258 (online)

Contents

Abstract....1
Introduction....1
Purpose and Scope....3
Previous Studies....3
24-Month Study....4
Description of Study Area....4
Lake Mead....5
Lake Mohave....6
Methods of Study....6
Energy Balance....6
Eddy Covariance Turbulent Flux Measurements....7
Latent-Heat Flux (Q_e)....7
Sensible-Heat Flux (Q_h)....8
Energy Balance Closure....8
Available Energy Measurements....9
Net Radiation (Q_n)....9
Change in Stored Heat (Q_x)....9
Advected Heat (Q_v)....12
Vapor Pressure Difference....12
Sites....12
Instrumentation for Turbulent Flux Measurements....13
Instrumentation for Available Energy Measurements....14
Data Collection and Reduction Procedures....15
Gap Filling Missing or Bad Turbulent-Flux Data....16
Evaporation from Lake Mead and Lake Mohave....16
Monthly Estimates....17
Available Energy....17
Water-Temperature Profiles....19
Inflow and Outflow Water Temperatures....19
Turbulent Fluxes....25
Annual Available Energy....25
Annual Turbulent Fluxes....25
Uncertainty Analysis and Limitations....25
Annual Estimates....29
Comparison to Existing Rate Coefficients....30
References Cited....33

Figures

1. Map showing overview of Lake Mead and Lake Mohave in Lake Mead National Recreation Area in Nevada and Arizona 2
2. Diagram showing major energy-budget components diagram 7
3. Map showing overview showing eddy covariance and floating platform sites in Boulder Basin, Lake Mead, Nevada and Arizona 10
4. Map showing overview showing eddy covariance and floating platform sites, Lake Mohave, Nevada and Arizona 11
5. Photograph showing eddy covariance station showing turbulent flux sensors position, Lake Mead, Nevada and Arizona 14
6. Photograph showing floating platform showing available energy sensor positioning, Lake Mohave, Nevada and Arizona 15
7. Graphs showing monthly minimum, mean, and maximum evaporation at Lake Mead, Nevada and Arizona, March 2010 through April 2019 and Lake Mohave, Nevada and Arizona, May 2013 through April 2019; and monthly mean evaporation at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 20
8. Graphs showing mean monthly, available energy, net radiation, change in stored heat, and advected heat, Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 21
9. Graph showing mean monthly inflow and outflow water temperatures at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 22
10. Graphs showing mean water-temperature profiles by depth at Lake Mead, Nevada and Arizona, March 2010 through October 2016; and at Lake Mohave, Nevada and Arizona, May 2013 through October 2016 23
11. Graph showing monthly mean inflow and outflow water temperatures at Lake Mead, Nevada and Arizona, March 2010 through April 2019, and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 24
12. Graphs showing mean monthly turbulent flux, latent-heat flux, sensible-heat flux, and Bowen ratio, Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 26
13. Graphs showing annual available energy, net radiation, change in stored heat, and advected heat, Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019 27
14. Graphs showing annual turbulent flux, latent-heat flux, sensible-heat flux, and energy balance ratio, Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019 28
15. Graph showing mean monthly vapor pressure difference at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019 29
16. Graphs showing probable minimum, most probable, and probable maximum annual evaporation at Lake Mead and Lake Mohave; and most probable annual evaporation at Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019 31
17. Graphs showing Lake Mead and Lake Mohave, Nevada and Arizona, mean monthly evaporation estimates for this study compared to 24-month study evaporation coefficients, March 2013 through April 2019 32

Tables

1. Monthly evaporation coefficients used in the Bureau of Reclamation's 24-Month Study on projected hydrologic conditions and water use of Lake Mead and Lake Mohave, Nevada and Arizona 5
2. Location and general description of measurement sites, Lake Mead and Lake Mohave, Nevada and Arizona 13
3. Turbulent flux and available energy data gaps at Lake Mead and Lake Mohave, Nevada and Arizona, 2015–18....16
4. Annual energy balance and summary statistics, Lake Mead, Nevada and Arizona, January 2011 through December 2018 17
5. Annual energy balance and summary statistics, Lake Mohave, Nevada and Arizona, January 2014 through December 2018 18
6. Monthly evaporation and summary statistics, Lake Mead, Nevada and Arizona, March 2010 through April 2019....18
7. Monthly evaporation and summary statistics, Lake Mohave, Nevada and Arizona, May 2013 through April 2019 19
8. Annual evaporation and summary statistics, Lake Mead, Nevada and Arizona, January 2011 through December 2018....30
9. Annual evaporation and summary statistics, Lake Mohave, Nevada and Arizona, January 2014 through December 2018 30

Conversion Factors

International System of Units to U.S. customary units

Multiply	By	To obtain
	Length	
centimeter (cm)	0.3937	inch (in.)
millimeter (mm)	0.03937	inch (in.)
meter (m)	3.281	foot (ft)
kilometer (km)	0.6214	mile (mi)
meter (m)	1.094	yard (yd)
	Area	
square meter (m^2)	0.0002471	acre
hectare (ha)	2.471	acre
square kilometer (km^2)	247.1	acre
square meter (m^2)	10.76	square foot (ft^2)
hectare (ha)	0.003861	square mile (mi^2)
square kilometer (km^2)	0.3861	square mile (mi^2)
	Volume	
cubic meter (m^3)	0.0002642	million gallons (Mgal)
cubic centimeter (cm^3)	0.06102	cubic inch (in^3)
cubic meter (m^3)	35.31	cubic foot (ft^3)
cubic meter (m^3)	0.0008107	acre-foot (acre-ft)
million cubic meter (Mm^3)	0.8107132	kilo acre-foot (Kaf)

Multiply	By	To obtain
	Flow rate	
cubic meter per second (m^3/s)	70.07	acre-foot per day (acre-ft/d)
cubic meter per year (m^3/yr)	0.000811	acre-foot per year (acre-ft/yr)
meter per second (m/s)	3.281	foot per second (ft/s)
cubic meter per second (m^3/s)	35.31	cubic foot per second (ft^3/s)
cubic meter per day (m^3/d)	264.2	gallon per day (gal/d)
cubic meter per second (m^3/s)	22.83	million gallons per day (Mgal/d)
millimeter per year (mm/yr)	0.03937	inch per year (in/yr)
kilometer per hour (km/h)	0.6214	mile per hour (mi/h)
	Mass	
gram (g)	0.03527	ounce, avoirdupois (oz)
kilogram (kg)	2.205	pound avoirdupois (lb)
	Pressure	
kilopascal (kPa)	0.009869	atmosphere, standard (atm)
kilopascal (kPa)	0.01	bar
kilopascal (kPa)	0.1450	pound per square inch (lb/ft^2)
	Density	
kilogram per cubic meter (kg/m^3)	0.06242	pound per cubic foot (lb/ft^3)
gram per cubic centimeter (g/cm^3)	62.4220	pound per cubic foot (lb/ft^3)
	Energy	
joule (J)	0.0000002	kilowatthour (kWh)
joule per cubic meter (J/m^3)	0.00000738	watthour per cubic foot (Wh/ft^3)
watt per square meter (W/m^2)	0.0222	calorie per second per square foot ($cal/s/ft^2$)
	Frequency	
hertz (Hz)	1	cycle per second

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows: °F = (1.8 × °C) + 32.

Datum

Vertical coordinate information is referenced to the North American Vertical Datum of 1988 (NAVD 88).

Horizontal coordinate information is referenced to the North American Datum of 1983 (NAD 83).

Altitude, as used in this report, refers to distance above the vertical datum.

Lake Mead elevation, as used in this report, is referenced to the U.S. Geological Survey datum, adjustment of 1912, locally known as “Power House Datum.”

Abbreviations

24MS	24-Month Study
AOP	Annual Operating Plan
BREB	Bowen ratio energy budget
CSAT3	Sonic anemometer
EBR	Energy balance ratio
EC	Eddy covariance
KH2O	Krypton hygrometer
LMNRA	Lake Mead National Recreation Area
MDV	Mean diurnal variation
Q_e	Latent-heat flux
Q_h	Sensible-heat flux
Q_n	Net radiation
Q_s	Solar radiation
Q_v	Advected heat
Q_x	Change in stored heat
Reclamation	Bureau of Reclamation
RM	River mile
SNWP	Southern Nevada Water Project
USGS	U.S. Geological Survey

Evaporation from Lake Mead and Lake Mohave, Nevada and Arizona, 2010–2019

By Katherine J. Earp and Michael T. Moreo

Abstract

Evaporation-rate estimates at Lake Mead and Lake Mohave, Nevada and Arizona, were based on eddy covariance and available energy measurements from March 2010 through April 2019 at Lake Mead and May 2013 through April 2019 at Lake Mohave. The continuous data needed to compute monthly evaporation were collected from floating-platform and land-based measurement stations located at each reservoir. Collected data include latent- and sensible-heat fluxes, net radiation, air temperature, wind speed, humidity, and water-temperature profiles. Data collection, analysis methods, and monthly evaporation results for Lake Mead through February 2012 were documented in a U.S. Geological Survey (USGS) Scientific-Investigations Report, 2013–5229. Monthly evaporation and associated datasets for both reservoirs through April 2015 were published in a USGS Data Release (https://doi.org/10.5066/F79C6VG3). Average annual evaporation at Lake Mead was 1,896 millimeters (mm), which is a 10 percent difference from the 1,718 mm average annual evaporation at Lake Mohave; this was primarily due to differences in available energy. Average annual available energy at Lake Mead was 139 watts per square meter (W/m^2), which is an 18 percent difference from the 116 W/m^2 average annual available energy at Lake Mohave. Differences in available energy are driven by differences in advected heat between Lake Mead and Lake Mohave; advected heat at Lake Mohave is lower due to colder inflows and warmer outflows. Lake Mead monthly evaporation estimates for this study compare reasonably well to the Bureau of Reclamation's 24-Month Study (24MS) evaporation coefficients, which are based on pioneering studies from the 1950s. Temporal trends in this study indicate that the effects of heat storage at Lake Mead were underestimated in the 24MS, particularly during the fall months when energy was released from the lake. Mean monthly evaporation rates at Lake Mead were greater than Lake Mohave from June through November during the study period. The seasonal pattern of evaporation at Lake Mohave in this study indicates that the effects of available energy were underestimated in the 24MS coefficients for this reservoir, and that evaporation was substantially overestimated from spring through summer during the study period of 2013 through 2019.

Introduction

Lake Mead is part of a system of dams and reservoirs that control the Colorado River and enable its efficient use (fig. 1). Water demand has steadily increased since the implementation of the Colorado River Compact of 1922 as the upper- and lower-basin states have built the infrastructure needed to capture their full apportionment. From 2000 to 2010, the stage of Lake Mead fell approximately 40 meters (m; 131 feet, ft), raising concerns among water managers about future water shortages. Future water shortages in the Colorado River system could result from decreased runoff caused by continuing short-term drought and long-term climate change. Accordingly, imbalances between the water supply and demand may continue. Increasingly scarce water resources have underscored a need to improve water accounting and projection accuracy.

The Bureau of Reclamation (Reclamation) Lower Colorado Region is responsible for delivering water from the lower Colorado River to Arizona, California, Nevada, and Mexico. These responsibilities include (1) accounting for diversions, consumptive use, and return flows; and (2) projecting Lower Basin water availability. Reclamation operates a model called the 24-Month Study (24MS) that projects future Colorado River reservoir volumes and potential dam operations based on hydrologic conditions at the time of this study, projected hydrologic conditions, and operational policies and guidelines (https://www.usbr.gov/lc/region/g4000/24mo.pdf). Each month, the 24MS simulates water budgets and projects future reservoir conditions and potential dam operations for the next 24-month period. Increasing the accuracy of the 24MS model and improving projected hydrologic conditions are high priorities for Reclamation.

In cooperation with Reclamation, the U.S. Geological Survey (USGS) conducted a study to improve 24MS model projections by improving monthly estimates of evaporation from Lake Mead and Lake Mohave. Reservoir evaporation is a water-budget term used in the model that is based on poorly documented modifications to original USGS estimates (Harbeck and others, 1958). In this study, the continuous data needed to compute monthly evaporation were collected from floating-platform and land-based measurement stations located at each reservoir. Collected data include latent- and sensible-heat fluxes (Q_e and Q_h), net radiation (Q_n), air temperature,

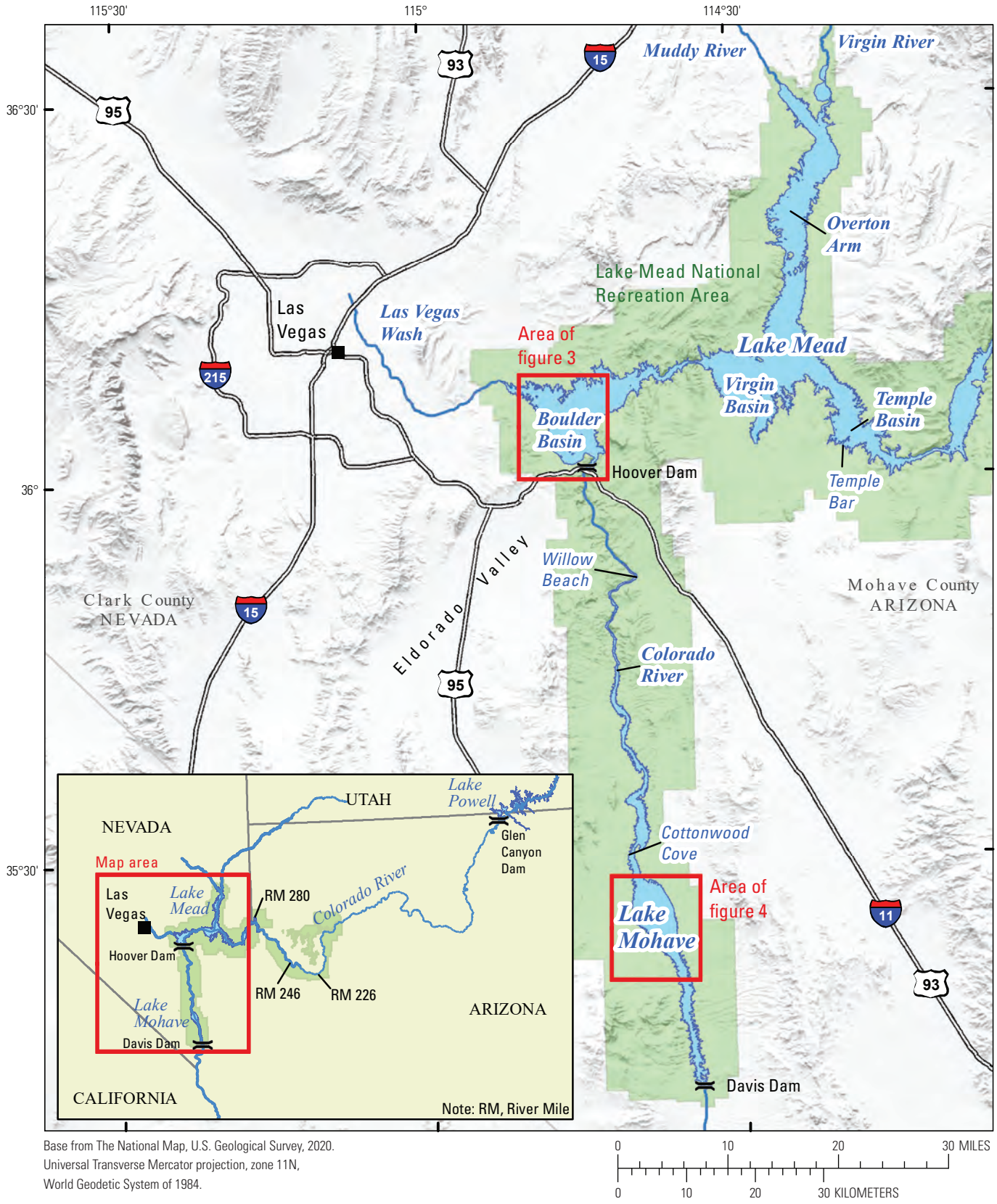


Figure 1. Overview of Lake Mead and Lake Mohave in Lake Mead National Recreation Area in Nevada and Arizona.

wind speed, humidity, and water-temperature profiles. Measurements began in March 2010 at Lake Mead and May 2013 at Lake Mohave and ended in May 2019 for both lakes. There were three prior publications released for this study: (1) data collection, analysis methods, and monthly evaporation results for Lake Mead through February 2012 were documented in a USGS Scientific-Investigations Report (Moreo and Swancar, 2013; https://pubs.usgs.gov/sir/2013/5229/pdf/sir2013-5229.pdf); (2) monthly evaporation and associated datasets for both reservoirs through April 2015 were published in a USGS Data Release (Moreo, 2015; https://www.sciencebase.gov/catalog/item/55f6fba8e4b0477df11bff2b); and (3) meteorological data from both lakes following the removal of the floating platforms in September 2016 at Lake Mohave and in April 2017 at Lake Mead were published in a USGS Data Release (Moreo, 2018; https://www.sciencebase.gov/catalog/item/5a74e8c1e4b00f54eb1c82df). Some of the text in this report is drawn from Moreo and Swancar (2013).

Purpose and Scope

The purpose of this report is to present updated monthly evaporation estimates for Lake Mead and Lake Mohave using the eddy covariance (EC) and energy balance methods. This report enhances the 2013 Moreo and Swancar report by providing additional years of data. Monthly evaporation-rate estimates are based on EC and available energy measurements from March 2010 through April 2019 at Lake Mead and May 2013 through April 2019 at Lake Mohave. The results are expected to improve water-budget and projection accuracy of Reclamation's 24MS model (Moreo and Swancar, 2013).

Previous Studies

The earliest attempt to estimate evaporation from Lake Mead based on meteorological and limnological data was by Anderson and Pritchard (1951). Their work was part of a series of comprehensive surveys conducted by the USGS, Reclamation, the U.S. Navy Electronics Laboratory, and others to evaluate sedimentation and salinity in 1948–49 (Smith and others, 1960). Lake temperature profiles were measured monthly at more than 60 locations. The Bowen ratio energy budget (BREB) method was used to estimate an annual evaporation rate of 1,626 millimeters (mm; 64 inches, in.). Their study highlighted the need to more fully develop the BREB method at a lake where evaporation was known. These same agencies then participated in a landmark study of lake evaporation at Lake Hefner, Oklahoma in 1950–51 (U.S. Geological Survey, 1954). This location was chosen because, in contrast to Lake Mead, the water budget could be determined with sufficient accuracy (plus or minus 5 percent) to serve as a control for testing evaporation methods including energy budget and mass transfer. The study group subsequently moved back to Lake Mead in 1952–53 to conduct further research into methods and the equipment needed to measure evaporation accurately (Harbeck and others, 1958). The BREB method was chosen as the control to test mass-transfer equations, even though the method was not expected to be as accurate as the water-budget control at Lake Hefner. The annual evaporation estimates for the BREB and mass-transfer methods were in such close agreement, partly because these methods were not completely independent as applied, that the investigators combined them for an average annual evaporation rate of 2,172 mm (86 in.) for Lake Mead (Harbeck and others, 1958). The resulting average evaporation volume of 1,079 million cubic meters (Mm^3); 875 kilo acre feet, Kaf) is nearly three times Nevada's annual allocation from the Colorado River of 370 Mm^3 (300 Kaf). As a more practical way to estimate monthly evaporation than these large-scale study efforts, a mass-transfer equation was devised whereby monthly evaporation could be estimated with a combination of variables measured at Lake Mead and at the Las Vegas airport (Harbeck and others, 1958). This equation was used by Reclamation to estimate evaporation until 1994. The mean annual evaporation rate for the period 1953–94 was 1,930 mm (76 in.), but the mean for 1953–73 was 2,032 mm (80 in.), and the mean for 1974–94 was 1,829 mm (72 in.; Westenburg and others, 2006). The lower annual evaporation rates during the latter period also were more variable, which may have resulted either from a series of programmatic modifications or faulty equipment. Westenburg and others (2006) established four floating platforms in different basins in Lake Mead for varying lengths of time between 1997 and 1999. Using the BREB method, they estimated an annual evaporation rate of 2,286 mm (90 in.).

Harbeck and others (1958) concluded that, for cost effectiveness, operational estimates of evaporation from Lake Mead are obtainable with data collected in Boulder Basin (fig. 1). The areal variation in water temperature is minimal based on observations of water-temperature profiles in Boulder Basin, Virgin Basin, Overton Arm, and Temple Bar (fig. 1; Harbeck and others, 1958). Similarly, Anderson and Pritchard (1951) concluded that a single water-temperature profile measurement in Boulder Basin reasonably represents the entire lake. These conclusions are supported by analyses of water-temperature profiles contained within this report and additional data reported in Veley and Moran (2012). Based on a less than 2-percent difference in net incoming radiation from the four stations in the Lake Mead area used by Harbeck and others (1958), there is "no basis to conclude that there is a significant areal variation in radiation." A maximum deviation in the Bowen ratio of 0.079 between these four sites indicated a maximum variation in evaporation of 8 percent.

Westenburg and others (2006) evaluated the spatial variation in monthly evaporation at three open-water sites and one partially wind-sheltered site using the BREB method and concluded that the spatial variation in evaporation was minimal for open-water areas of Lake Mead. The spatial variations in evaporation reported by both Westenburg and others (2006) and Harbeck and others (1958) are within the 5–10 percent uncertainty range for the EC method reported by Foken (2008, p. 122).

Anderson and Pritchard (1951) determined that a single temperature profile was representative of all of Lake Mead for the purpose of quantifying change in stored heat (Q_x) based on 12 surveys over a year at 60 locations distributed throughout the lake. They found that differences between temperature profiles in shallow and deep parts of the lake were not significant and that "energy storage for any standard layer and the monthly change in this storage are essentially uniform regardless of the depth of the water." Similarly, a Wilcoxon signed-rank statistical test of monthly Q_x was calculated, using temperature data from floating platforms at Sentinel Island, Temple Basin, and Virgin Basin (Veley and Moran, 2012), and found no significant difference between the median monthly Q_x for paired values from any two of these locations (p=0.64 to 0.93).

Moreo and Swancar (2013) measured evaporation from Lake Mead using the EC and BREB methods for the 2-year period beginning in March 2010. When corrected for energy imbalances, annual EC evaporation was 2,070 and 1,880 mm (81.5 and 74.0 in.) for 2010 and 2011, within the range of previous estimates. There was a 9-percent decrease in the evaporation rate and a 10-percent increase in the lake surface area during the second year of the study compared to the first. These offsetting factors resulted in a nearly identical 720 million cubic meters (m^3; 584,000 acre-feet, acre-ft) evaporation volume for both years. Monthly evaporation rates were best correlated with wind speed, vapor pressure difference, and atmospheric stability. Differences between monthly mean evaporation and mean monthly evaporation were as much as 20 percent. Net radiation provided most of the energy available for evaporative processes; however, advected heat (Q_v) from the Colorado River was an important energy source during the second year of the study (Moreo and Swancar, 2013). Peak evaporation lagged peak Q_n by 2 months because a greater proportion of the Q_n that reaches the lake goes to heating up the water column during the spring and summer months. As most of this stored energy is released in the later summer and fall months, higher evaporation rates are sustained during fall months even though Q_n declines. The release of stored heat also fueled nighttime evaporation, which accounted for 37 percent of total evaporation. The annual energy balance ratio (EBR) was 0.90 on average and varied only 0.01 between the 2 years, thus implying that 90 percent of estimated available energy was accounted for by turbulent energy measured using the EC method. More than 90 percent of the turbulent-flux source area represented the open-water surface, and 94 percent of 30-minute turbulent-flux measurements originated from wind directions where the fetch ranged from 2,000 to 16,000 m. Evaporation uncertainties were estimated to be 5–7 percent.

Moreo and Swancar (2013) also employed the BREB method to measure evaporation from Lake Mead primarily as a validation of EC evaporation measurements at annual timescales. There was good agreement between annual corrected EC and BREB evaporation estimates, providing strong validation of these two largely independent methods. Annual BREB evaporation was 6 and 8 percent greater than EC evaporation for the 2 study years, and both methods indicated that there was a similar decrease in evaporation from the first to the second year. Both methods produced negative Q_h during the same months, and there was a strong correlation between monthly Bowen ratios ($R^2 = 0.94$). The correlation between monthly evaporation rates ($R^2 = 0.65$), however, was not as strong. Monthly differences in evaporation were attributed primarily to heat storage estimate uncertainty.

24-Month Study

The 24MS projects monthly hydrologic conditions and operations for Colorado River System reservoirs for the next 2 years. The 24MS is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (https://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf; Bureau of Reclamation, 2007) and is used to develop the Annual Operating Plan (AOP). The AOP is the cooperative working document among Colorado River users that contains the plan of dam and reservoir operations for this year. The 24MS computer model projects future reservoir conditions and potential dam operations for the system of reservoirs given existing reservoir conditions, inflow forecasts and projections, and a variety of operational policies and guidelines.

Monthly evaporation from Lake Mead is a water-budget term used in the model that is based on poorly documented modifications to early estimates of lake evaporation (Harbeck and others, 1958). Evaporation estimates in the 24MS are developed by applying monthly evaporation coefficients to monthly lake volumes. The 24MS evaporation coefficients change month to month to reflect seasonal variation but do not change on an annual basis (table 1). Evaporation estimates in this study represent monthly evaporation for each year of the period of record, 2010–19 for Lake Mead and 2013–19 for Lake Mohave and can be used to refine the 24MS model for future evaporation projections.

Description of Study Area

The Colorado River runs nearly 1,450 miles (mi) from its headwaters in Colorado and Wyoming to a historical terminus in the Gulf of California. The Colorado River Basin is over 637,000 square kilometers (km^2; 246,000 square miles, mi^2) and includes parts of seven states in the United States—Wyoming, Colorado, Utah, New Mexico, Arizona, Nevada, and California; and two Mexican states, Sonora and Baja California. Several dams impound and control the river, with the two largest being Glen Canyon Dam (forming Lake Powell) and Hoover Dam (forming Lake Mead; fig. 1). The Colorado River is unregulated between Lake Powell and Lake Mead, with most of that distance occurring through the Grand Canyon. Downstream of Lake Mead, a series of reservoirs

Table 1. Monthly evaporation coefficients used in the Bureau of Reclamation's 24-Month Study on projected hydrologic conditions and water use of Lake Mead and Lake Mohave, Nevada and Arizona.

[ft, foot]

Months	Lake Mead (ft)	Lake Mohave (ft)
January	0.36	0.36
February	0.33	0.36
March	0.37	0.48
April	0.46	0.61
May	0.53	0.81
June	0.64	0.93
July	0.80	0.93
August	0.85	0.84
September	0.70	0.68
October	0.51	0.56
November	0.51	0.40
December	0.44	0.35

were built to further regulate the river for hydropower and delivery to downstream users, including Lake Mohave (Davis Dam), and Lake Havasu (Parker Dam; Lake Havasu is outside of the Lake Mead Recreation Area and is not included in fig. 1).

The Lake Mead National Recreation Area (LMNRA) consists of Lake Mead and Lake Mohave (fig. 1). The climate in the LMNRA is hot, arid, and windy. This warm, arid environment is conducive to high rates of evaporation. Sparsely vegetated, gentle to moderately sloping alluvial fans and steep, barren, rocky cliffs surround Lake Mead. Generally, the adjacent hills rise to low or moderate height above the lake surface. Lake Mohave is surrounded by sparsely vegetated, steep, and narrow canyon walls, and adjacent hills rise to low or moderate height above the lake surface. Both lakes are exposed to winds from the southwest to southeast in the summer and west/northwest winds during the winter (U.S. Department of Commerce, 1953).

There are four historical National Weather Service cooperator sites (https://www.nws.noaa.gov/om/coop/; http://www.wrcc.dri.edu/summary/Climsmnv.html) with longer periods of record in the area—Callville Bay (7 km northeast of Lake Mead EC2; period of record 1989–2011; http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?nv1371), Willow Beach (27 km south-southeast of Lake Mead EC2 and 57 miles north of Lake Mohave EC1; period of record 1967–2008; http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?az9376), Temple Bar (40 km west of Lake Mead EC2; period of record 1987–2009; http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?az8516), and Laughlin (22 miles south of Lake Mohave EC1; period of record 1988–2016; https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?nv4480). There is little variation between these sites in terms of temperature and precipitation amounts. The average of the mean daily maximum temperature for the sites is about 43 degrees Celsius (°C; 110 degrees Fahrenheit, °F) in July and 17 °C (62 °F) in December, and the average of the mean daily minimum temperature for the sites is about 27 °C (80 °F) in July and 4 °C (39 °F) in December. Period of record annual precipitation was 13.87 centimeters (cm; 5.46 in.) at Callville Bay, 14.12 cm (5.56 in.) at Willow Beach, 14.27 cm (5.62 in.) at Temple Bar, and 13.66 cm (5.38 in) at Laughlin. From January 2014 to December 2018, the annual mean wind speed measured at the Lake Mead EC station was 4.4 meters per second (m/s; 9.8 mi/hr) and was 4.1 m/s (9.2 mi/hr) at the Lake Mohave EC station. These measured wind speeds are similar to the mean annual wind speed of 3.9 m/s recorded at the Las Vegas airport from 1984 to 2010 (National Weather Service, 2013).

Lake Mead

Lake Mead is the largest reservoir by volume in the nation, and provides drinking water, irrigation, and hydropower to more than 25 million people in three states (Nevada, California, and Arizona; Holdren and Turner, 2010; https://www.usbr.gov/projects/index.php?id=540). Lake Mead was formed following the 1935 completion of Hoover Dam and it took 6 years for the Colorado River to fill the reservoir. The Colorado River accounts for approximately 97 percent of inflows to Lake Mead (Westenburg and others, 2006; Turner and others, 2012). The remaining 3 percent of inflows are from the Las Vegas Wash, Muddy River, Virgin River, and ephemeral streams (Westenburg and others, 2006; Turner and others, 2012). From 1935 through 2001 the computed average combined inflow was 13,400 Mm^3 per year (yr; 10,860 Kaf/yr; Ferrari, 2008). During the 1999–2010 drought period, average inflows were reduced to 10,100 Mm^3/yr (8,190 Kaf/yr; Turner and others, 2012). Average inflows for the period of this study, 2010 through 2019, were 12,008 Mm^3/yr (9,735 Kaf/yr).

The watershed area draining to Lake Mead is approximately 435,000 km^2 (168,000 mi^2), or 5 percent of the United States (Thomas, 1954). The reservoir is at full capacity when the water-level elevation is 374.6 m (1,229 ft) above mean sea level. At full capacity, the total storage is 34,069 Mm^3 (27,620 Kaf) and the surface area is 659.3 km^2 (162,916 acres; Tighi and Callejo, 2011).

Lake Mead consists of a series of basins separated by narrower reaches. Boulder Basin (the most downstream basin nearest to Hoover Dam) and Virgin Basin (the next upstream basin) account for approximately 60 percent of the total storage in the lake (Thomas, 1954). Lake depths are up to approximately 140 m (460 ft) and widths range from 200 m (656 ft) in the narrow canyons to 16 kilometers (km; 10 mi) in the larger basin areas. Lake water generally is clear, and small currents are related to lake circulation (Thomas, 1954). The average residence time of water moving through Lake Mead has been estimated as 3.9 years (Westenburg and others, 2006) and 2.6 years (Turner and others, 2012).

Flow through Hoover Dam is through the four intake towers located above the dam. Water supply for the powerplant turbines is drawn through the intake towers by a combination of upper gates at an elevation of 1,050 ft and lower gates at an elevation of 895 ft. Water flows from the intake towers through a series of penstocks where flow is measured, then the water flows out through the tailrace where water quality and temperature are measured.

Lake Mohave

Lake Mohave extends approximately 67 mi along a series of narrow canyons from Hoover Dam to Davis Dam, straddling the southern Nevada and northwestern Arizona border (fig. 1). Davis Dam was completed in 1953 as one of the last dams on the Colorado River and was built with a primary purpose to regulate Hoover Dam releases for delivery to Mexico (Ohmart and others, 1988). The lake follows the original river channel and has a maximum width of 6.4 km (4 mi) and a maximum depth of 36.5 m (120 ft). Although water level is largely controlled by releases from Davis Dam, the reservoir is primarily riverine from below Hoover Dam through Black Canyon, before transitioning to true reservoir conditions in Eldorado Canyon (National Park Service, 2020). South of Eldorado Canyon, Lake Mohave gradually widens to its widest point in Cottonwood Cove.

Inflow to Lake Mohave is provided by releases from Hoover Dam and averaged 11,250 Mm^3/yr (9,120 Kaf/yr) for the period of record of this study, May 2013–May 2019 (https://www.usbr.gov/lc/region/g4000/24mo/index.html). The reservoir is at full capacity when the water-level elevation is 197.2 m (647 ft) above mean sea level. At full capacity, the total storage is 2,242 Mm^3 (1,818 Kaf), and the surface area is 113.3 km^2 (28,000 acres; https://www.usbr.gov/projects/index.php?id=47). Monthly mean lake elevations ranged from 634.8 to 644.7 ft for the period of record for this study. The average residence time has been estimated at 60 days (Rosen and others, 2012).

The crest of Davis Dam is at an elevation of 655 ft, just above the high-water elevation of 647 ft (Bureau of Reclamation, 1955). The height of the dam is 200 ft, with a dead storage pool elevation of 533 ft. The powerplant on Davis Dam is supplied with water through spillways and an outlet structure. Outflow water temperature is measured downstream of the spillway and represents surface-water temperature of the lake. Temperatures entering Lake Mohave from Hoover Dam are cold throughout the year (averaging 14 °C) and stay cold throughout Black Canyon because shade from the steep walls of the canyon help maintain the temperature. Temperatures in the downstream Cottonwood Cove can be much warmer in the summer, which leads to a convergence zone in Eldorado Canyon as cold, nutrient-rich upstream water flows under the warmer lake water (National Park Service, 2020). The two waters are considered to have thoroughly mixed by the point at which water temperature is measured at the Davis Dam outflow.

Methods of Study

The following is an abbreviated discussion of the methods, which are fully provided in Moreo and Swancar (2013) and continued for this study. Methods to estimate lake evaporation generally fall into three categories: (1) aerodynamic methods, (2) energy balance methods, and (3) methods that combine these two approaches (Allen and others, 1998; Finch and Hall, 2005; Rosenberry and others, 2007). Eddy covariance is a micrometeorological method that also falls into the first category; when EC is corrected for energy balance closure it falls within the third category. The BREB method is in the second category.

The selection of a method or methods to estimate evaporation, each with its own strengths and weaknesses, is typically dictated by study objectives, the size and complexity of the study area, and costs. The primary objective of this study was to provide accurate monthly evaporation rates, which are expected to improve 24MS water budget and model output accuracy. The EC method was chosen as the primary method because it provides the most direct and least uncertain measure of monthly evaporation (Moreo and Swancar, 2013). Furthermore, even though the focus of this report is on monthly estimates, one significant advantage of the EC method over other methods is the ability to accurately measure daily and sub-daily evaporation. Processes that control open-water evaporation become more evident at these shorter time steps (Blanken and others, 2003; Liu and others, 2009; Granger and Hedstrom, 2011).

In this study, evaporation is calculated from latent heat following the Stull equation (Stull, 1988). The evaporation rate, E, in m/s is shown in the equation below:

$$E = \frac{Q_e * 1.8}{2501 - 2.37 * T_a} \quad (1)$$

where

Q_e is the latent-heat flux, or the energy used for evaporation, in watts per square meter (W/m^2), and

T_a is the air temperature in °C.

Although latent heat is the primary component in evaporation calculations using the EC method, other energy gains and losses are used to refine evaporation results. Final evaporation results were adjusted using energy balance closure procedures.

Energy Balance

Excluding the energy fluxes considered negligible for the previous study, the energy balance of Lake Mead and Lake Mohave can be explained by the following equation (fig. 2; Moreo and Swancar, 2013):

$$Q_n - Q_x + Q_v = Q_e + Q_h \quad (2)$$

where

Q_n is the net radiation,
Q_x is the change in stored heat,
Q_v is the net heat advected into the lake,
Q_e is the latent-heat flux, or the energy used for evaporation, and
Q_h is the sensible-heat flux, or the energy conducted between the lake and the atmosphere.

All Q terms are expressed in W/m^2. The left side of the equation represents available energy, and the right side represents turbulent energy. Each of the energy fluxes in equation 2 is measured independently for the EC method.

Eddy Covariance Turbulent Flux Measurements

Eddies are turbulent airflow caused by wind, surface roughness, and convective heat flow in the atmospheric surface layer (Swinbank, 1951; Brutsaert, 1982; Kaimal and Finnigan, 1994). Eddies transfer energy and mass between land and water surfaces and the atmosphere (Brutsaert, 1982). The sum of Q_e and Q_h is referred to as turbulent flux, or turbulent energy, in W/m^2. The EC method provides the most direct measure of turbulent exchange available (Baldocchi, 2003; Foken, 2008; Stannard and others, 2013). Fluxes of water vapor and heat can be measured directly without the application of empirical constants by finding the covariance between these scalars and vertical wind speed (Foken, 2008; Campbell Scientific, Inc., 2010b). Evaporation (positive Q_e) occurs when water vapor in upward moving eddies is greater than in downward moving eddies. Likewise, Q_h is positive (from the surface to the atmosphere) when upward moving eddies are warmer than downward moving eddies.

Latent-Heat Flux (Q_e)

Latent-heat flux (Q_e), as defined for this study, is the energy removed from the lakes during the liquid-to-vapor phase change of water and is the product of the latent heat of vaporization of water (λ) and water-vapor flux density. The latent heat of vaporization, although slightly temperature dependent, is nearly constant. Water-vapor flux density is calculated as the covariance of instantaneous deviations from the time-averaged product of water-vapor density and vertical wind speed. Eddy covariance derived Q_e can be expressed mathematically as the equation below:

$$Q_e = \lambda \overline{w' \rho_v'} \quad (3)$$

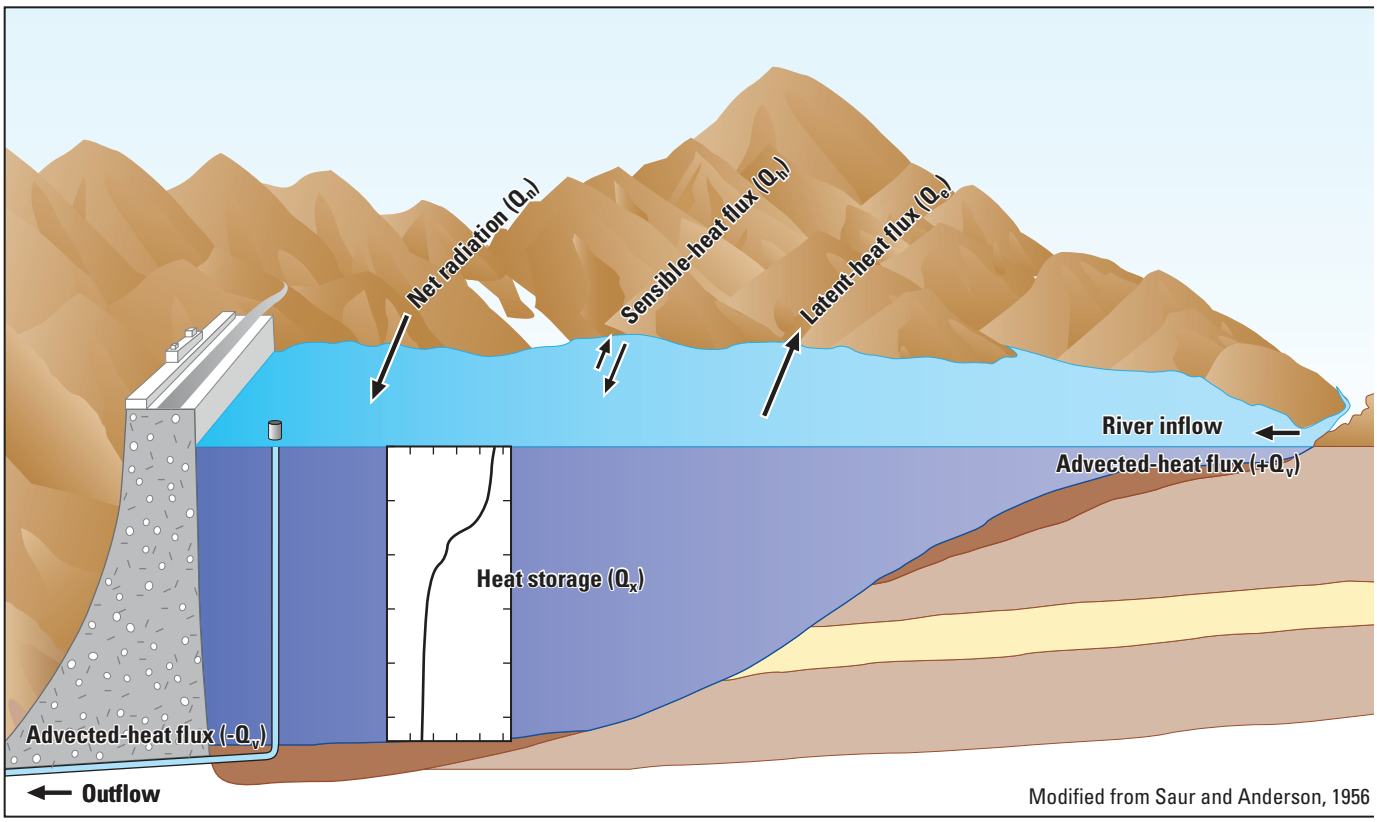


Figure 2. Major energy-budget components diagram.

where

w is the vertical component of wind speed, in m/s,

ρ_v is the water vapor density, in grams (g) per m^3, and

$'$ are the primes that are deviations from mean values, and the overbar denotes mean value.

Deviations from mean values were measured at 10 hertz (Hz; 10 times per second), and mean values were computed over a 30-minute period. The Q_e is converted to evaporation using equation 1.

Sensible-Heat Flux (Q_h)

Sensible-heat flux (Q_h) is the movement of heat energy that results from a temperature difference between the surface of the lake and the atmosphere. The EC method computes Q_h from air temperature and vertical wind speed as the equation below:

$$Q_h = \rho_a C_p \overline{w' T_a'} \quad (4)$$

where

ρ_a is the air density, in kilogram (kg) per m^3,

C_p is the specific heat of air, in joules (J) per kg °C,

w is the vertical component of wind speed, in m/s,

T_a is air temperature, in °C, and

$'$ are the primes that are deviations from mean values, and the overbar denotes mean value.

Energy Balance Closure

Eddy covariance evaporation estimates in this study were adjusted for energy balance closure. Forced closure of the energy balance equation involves balancing the latent- and sensible-heat energy against independently measured available energy, as described in Moreo and Swancar (2013). Foken and others (2012) suggest that a first-order approximation for closing the energy balance can be achieved by applying the Bowen ratio to calculated evaporation. The Bowen ratio, the ratio of Q_h to Q_e, has been traditionally important in determining energy balance in evapotranspiration studies (Bowen, 1926).

In this study, the EBR or the ratio of turbulent fluxes to available energy, is used to quantify energy balance closure (Moreo and Swancar, 2013). The EBR is computed as follows in the equation below:

$$EBR = \frac{Q_e + Q_h}{Q_n - Q_x + Q_v} \quad (5)$$

where

Q_e is the latent-heat flux, or the energy used for evaporation,

Q_h is the sensible-heat flux, or the energy conducted between the lake and the atmosphere,

Q_n is the net radiation,

Q_x is the change in stored heat, and

Q_v is the net heat advected into the lake.

If all known energy fluxes appear in the energy budget equation and all energy fluxes are measured accurately, then the EBR would equal unity; this concept is commonly called energy balance closure. In reality, the sum of EC turbulent energy is consistently less than the sum of available energy, with various explanations given for the source of the discrepancy (Wilson and others, 2002; Foken, 2008; Foken and others, 2012; Leuning and others, 2012). Wilson and others (2002) studied the results of other investigators and reported annual EBR values ranging from 0.39 to 1.69 for 50 site-years of data at 22 EC sites, with an average value of 0.8, thus implying that on average 80 percent of available energy is accounted for by turbulent energy measurements. This lack of energy balance closure is quantifiable because the EC system measures latent- and sensible-heat energy independently.

Foken and others (2012) suggest that the lack of closure at many EC sites is not related to errors in the EC method but instead is related to atmospheric conditions that cannot be measured using the EC method. When airflow contacts significant landscape heterogeneities, large eddies are formed and a secondary atmospheric circulation pattern is developed; therefore, these secondary circulation patterns are not uniformly distributed over an area. Furthermore, these secondary circulation patterns are characterized by the transfer of energy from small to very large (greater than 1 km) eddies. The time of passage of these very large eddies likely is too long for the typical 30-minute to 1-hour averaging periods to capture; however, longer averaging periods begin to violate the principles of stationarity. The resulting advective flux divergence is difficult to detect.

In this study, energy balance closure is achieved by dividing evaporation estimates by the annual EBRs. When the EBR is less than 1, measured evaporation is adjusted upwards for closure, and the corrected results represent maximum evaporation. When the EBR is greater than 1, turbulent fluxes are overestimated compared to available energy so measured evaporation must be adjusted downwards for closure, and the adjusted results represent minimum evaporation. In this study, reported evaporation is the average of the measured and corrected evaporation.

Available Energy Measurements

Available energy is comprised of net radiation (Q_n), change in stored heat (Q_x), and advected heat (Q_v). Two of the available energy parameters (Q_n and Q_x) were measured directly by the USGS using instrumentation installed on floating platforms for this study. Advected heat was calculated using temperature and inflow and outflow data collected by Reclamation and USGS.

Net Radiation (Q_n)

Net radiation (Q_n) was measured either directly using net radiometers or indirectly using solar radiometers and an established relationship between measured Q_n and solar radiation (Q_s). Net radiation was measured from the floating platforms and Q_s was measured from the land-based EC stations. At Lake Mead, Q_n was measured using net radiometers from the Sentinel Island floating platform (May 21, 2010, to April 22, 2013; Moreo and Swancar, 2013) and the Boulder Basin floating platform (April 22, 2013, to April 25, 2017; Moreo, 2018). At Lake Mohave, Q_n was measured using a net radiometer from the Lake Mohave floating platform (April 11, 2013, to September 30, 2016; Moreo, 2018). Solar radiation was measured at the Lake Mead EC station from March 28, 2015, to April 30, 2019, and at the Lake Mohave EC station from March 20, 2015, to April 30, 2019.

After the floating platforms were removed in 2016 for Lake Mohave and in 2017 for Lake Mead, Q_n was estimated from a period of paired Q_n /Q_s measurements at each lake. At Lake Mead, this estimation is based on the strong relation between Q_n measured at the Boulder Basin platform and Q_s measured at the EC2 site ($y=1.01x–86.24$, $r^2=0.97$, n=17,519 half-hourly measurements) and was applied from April 19, 2017, to April 30, 2019 (fig. 3). At Lake Mohave, this estimation is based on a strong relation between Q_n measured at the floating platform and Q_s measured at the EC1 site ($y=0.94x–78.31$, $r^2=0.92$, n=17,567 half-hourly measurements; fig. 4).

Change in Stored Heat (Q_x)

Change in stored heat (Q_x) was calculated from water-temperature profiles at the floating platforms. Temperatures to 76 m (250 ft) depth (or the maximum depth measured if greater than 76 m) at Lake Mead and temperatures to 26 m (85 ft or maximum depth) at Lake Mohave were used to calculate Q_x. Below 76 m depth, water temperature at Lake Mead varies little (Veley and Moran, 2012). The temperature data, as measured at various depths as layers, were combined with lake stage and bathymetric data to obtain Q_x using the following equation (modified from Anderson and Pritchard, 1951, p. 101, equation 93, and from Dave Stannard, U.S. Geological Survey, written commun., 2010):

$$Q_x = \frac{1}{t}\left[\begin{array}{c}\sum_{i-1}^{n} C_w\left(T_i^t - T_b\right)A_i^t TH_i + C_w\left(T_c^t - T_b\right)A_c^t TH_c^t - \\ \sum_{i-1}^{n} C_w\left(T_i^{t-1} - T_b\right)A_i^{t-1} TH_i + C_w\left(T_c^{t-1} - T_b\right)A_c^{t-1} TH_c^{t-1}\end{array}\right] \quad (6)$$

where

Q_x is the change in heat stored per unit surface area of a water body, in W/m^2,
1 refers to the first (top) layer,
t is the length of measurement period, in seconds,
n refers to the second from the bottom layer (constant thickness layer),
i (subscript) is the ith layer,
C_w is the volumetric specific heat of water, equal to 4.187×10^6 $J/m^3\,^\circ C$,
T is the average temperature of a layer, in $^\circ C$,
t (superscript) is the end of the measurement period,
T_b is the base temperature (assumed zero), in $^\circ C$,
t-1 (superscript) is the beginning of the measurement period,
A is the surface area of the lake, in m^2,
TH is the thickness of layer in which temperature change is measured in m, and
c (subscript) is the bottom layer (variable thickness layer).

Temperature profiles measured just after midnight (0000–0060 hour) on the first day of the month were used to quantify the monthly Q_x. Layer thickness (TH) was 5 m at Lake Mead and 2.5 m at Lake Mohave except for the top and bottom layers; the top layer was 1-m thick and the bottom layer thickness varied based on the lake level. The average temperature of each layer (T) was computed as the average of the temperatures measured at the top and the bottom of the layer. Surface area (A) for each layer was the average of the top and bottom layer areas, determined from lake stage and storage relationship (Tighi and Callejo, 2011). The total stored heat for the lake at the beginning of each month was the sum of the heat contents of all the layers. Change in stored heat was then calculated as the difference between the total stored heat from one month to the next. Following the end of the water-quality program in 2016 and the removal of the floating platforms, Q_x was estimated based on an average of the 3 previous years of data.

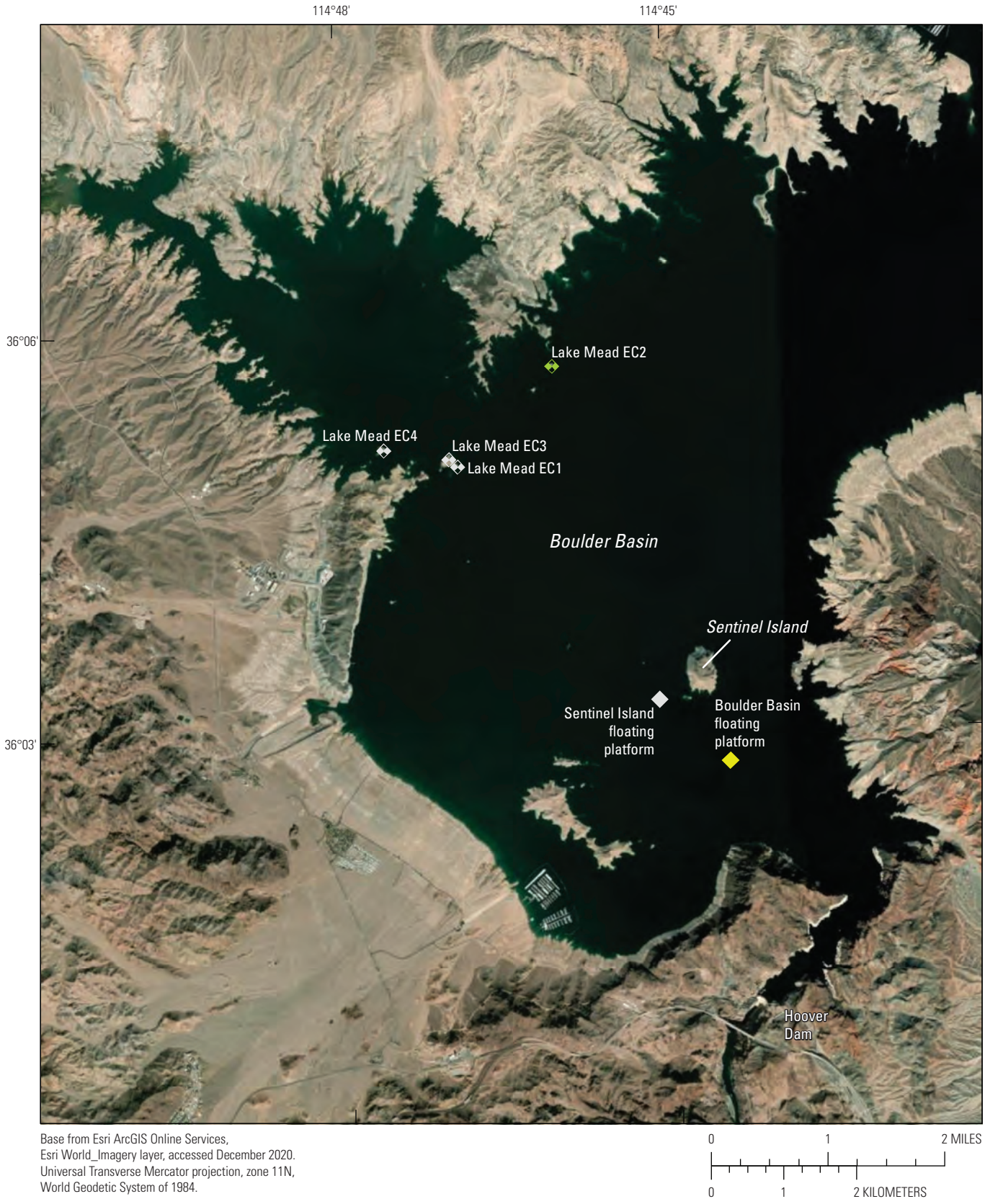


Figure 3. Overview showing eddy covariance (EC) and floating platform sites in Boulder Basin, Lake Mead, Nevada and Arizona.

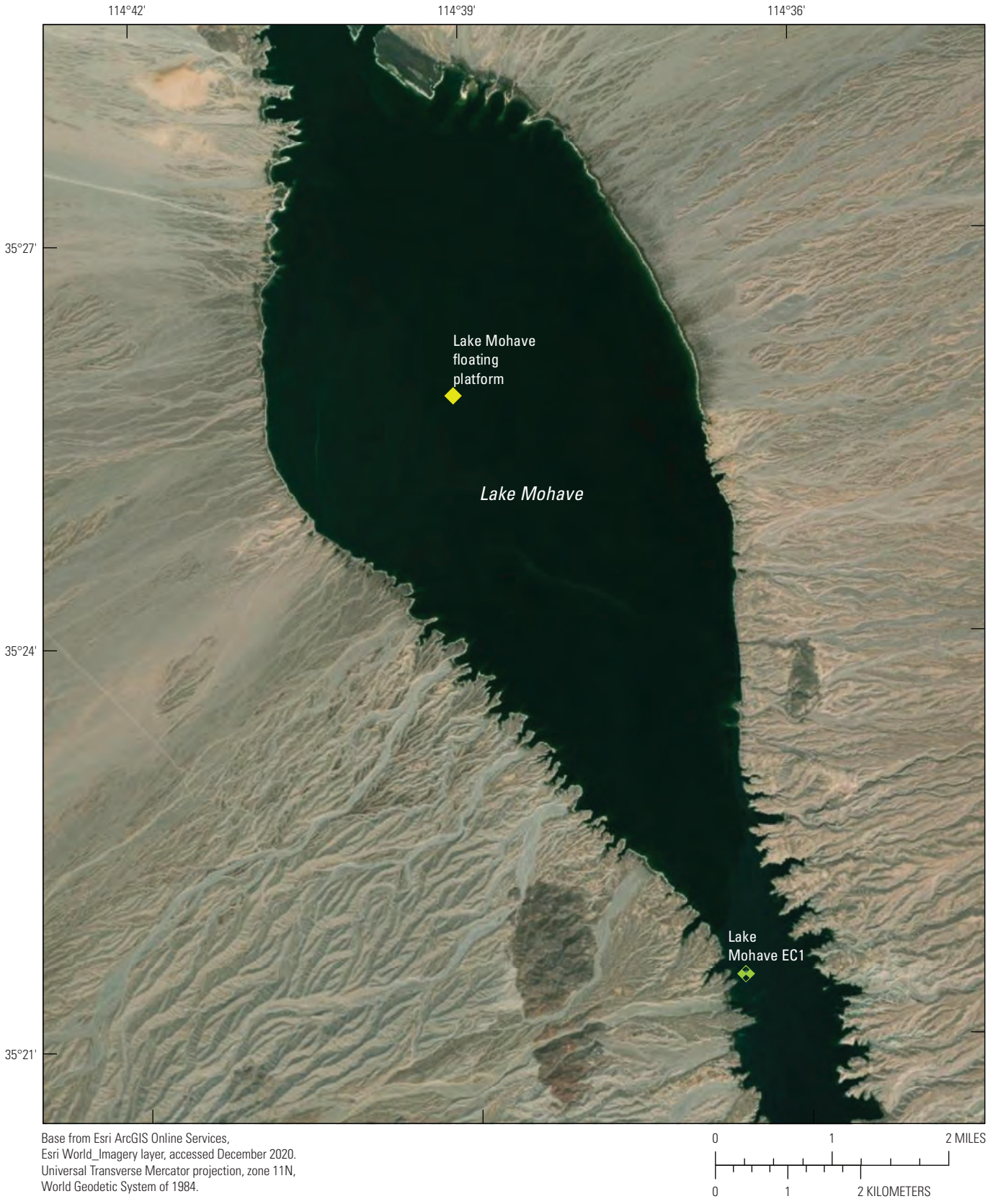


Figure 4. Overview showing eddy covariance (EC) and floating platform sites, Lake Mohave, Nevada and Arizona.

Advected Heat (Q_v)

Net Q_v to Lake Mead and Lake Mohave is the difference between inflowing and outflowing heat, which enters and leaves the lake along with water gains and losses. Net Q_v was calculated using the following equation (Omar and El-Bakry, 1981):

$$Q_v = \frac{\left[\sum_{i=1}^{n} C_w V_i (T_i - T_b) - \sum_{o=1}^{m} C_w V_o (T_o - T_b)\right]}{At} \quad (7)$$

where

i (subscript) is the ith layer of n inflows,
C_w is the volumetric specific heat of water, equal to 4.187 x 10^6 J/m^3 °C,
V is the volume of inflow or outflow during the period, in m^3,
T is the length of measurement period, in seconds,
T_i is the average temperature of a layer, in °C,
T_b is the base temperature (assumed zero), in °C,
o (subscript) is the oth of m outflows,
A is the surface area of the lake, in m^2, and
t is the length of measurement period, in seconds.

The primary inflow into Lake Mead is from the Colorado River and was calculated using Glen Canyon Dam releases. Major side inflows and outflows of Lake Mead are composed of the Virgin River, the Muddy River, withdrawals for municipal use in the Las Vegas Valley by the Southern Nevada Water Project (SNWP), and bank storage. All flow data were provided by the 24MS. Advected heat at Lake Mohave was calculated using Hoover Dam inflow and Davis Dam outflow temperature and flow data. Inflow temperatures to Lake Mead were estimated primarily using the USGS Grand Canyon Monitoring and Research Center monitoring site 09404220, Colorado River above Spencer Creek at river mile (RM) 246 (Voichick and Wright, 2007; Wright and others, 2009). Monthly averaged temperature data were computed using continuous 15-minute temperature data measured at either RM 226 or RM 246 (fig. 1). The upstream end of the lake was at approximately RM 280 during the study (fig. 1). Temperature changes in the river downstream from the last measurement point and their effects on Q_v and lake evaporation were assumed negligible based on the Colorado River temperature model developed by Wright and others (2009). A more detailed temperature discussion can be found in Moreo and Swancar (2013).

Temperature of the outflow from Lake Mead (Hoover Dam) is measured at the tailrace and was provided by Reclamation. All volume and temperature side flow data were provided by Reclamation's 24MS. Temperatures of the SNWP withdrawals from Lake Mead were used for the monthly average lake surface temperature. Temperatures of water going into and out of bank storage at Lake Mead were assumed to be equal to the monthly average lake surface temperature when the lake level was rising, and equal to the long-term (24-month) average lake surface temperature (a surrogate for groundwater temperature) when the lake level was falling. Lake Mead outflow temperature is assumed to be the same as Lake Mohave inflow temperature. Lake Mohave outflow temperature and flow data were measured at the tailrace of Davis Dam and provided by Reclamation.

Vapor Pressure Difference

Because evaporation is proportional to vapor pressure differences (Moreo and Swancar, 2013), vapor pressure differences can be computed at the floating platforms as an independent check on EC measurements. Saturation vapor pressure of the air at 1.74 m above the water surface (e_a) was measured with a CS HC2S3 temperature and relative humidity probe from the floating platforms at both lakes. Vapor pressure at the water-surface temperature (e_o) was computed with relative humidity and water-surface temperatures were measured with a CS 107 temperature probe.

Air temperature, water temperature, and relative humidity was measured from April 22, 2013, to April 25, 2017, at Lake Mead and from April 1, 2013, to September 30, 2016, at Lake Mohave. Average monthly vapor pressures and vapor pressure differences were calculated from 30-minute temperature and relative humidity data.

Sites

Floating platforms and EC stations were established in 2010 in Lake Mead and in 2013 in Lake Mohave (table 2). The sensors necessary to measure available energy were installed on the floating platforms, while sensors necessary to measure turbulent flux were installed at the EC sites. While floating platforms had previously been deployed on Lake Mead for various water-quality studies, deploying EC sensors from a raft is impractical because the wave-induced raft movement interferes with the EC measurements.

The ideal site placement for an EC station is one where the terrain surrounding the site is flat and homogeneous, and where the fetch for the surface-of-interest is longer than the turbulent-flux source area. Fetch is defined in this study as the upwind distance from the measurement point to the shore, and the surface-of-interest is open water. The fetch needs to be long enough for airflow measured by EC sensors to equilibrate to the open-water evaporating surface (Rosenberry and others, 2007). Eddy covariance stations were located on small rock outcrops exposed by declining lake levels in Lake Mead (fig. 3) and on the eastern tip of Cottonwood Island at Lake Mohave (fig. 4). Because of the shape of Cottonwood Island, an additional fetch filter was applied to turbulent flux measurements at Lake Mohave when wind passing over the western portion of the island was between 225 and 275

azimuth degrees. The fetch filter applied to less than 3 percent of the latent-heat and sensible-heat values (3,115 of 105,434 30-minute unit values were filtered when wind direction was over the island). The need for this filter was not identified until 2019, but because it addresses physical characteristics of the island (which did not change over the course of the study) this filter was retroactively applied to Lake Mohave data from May 2013 to April 2019.

The sites were usually visited each month for routine maintenance and data acquisition. Instrumentation were also checked and evaluated routinely and repaired or replaced as necessary. The net radiometer was checked for proper level and cleaned with water as necessary. The EC sensors, krypton hygrometers (KH20), and sonic anemometers (CSAT3) were cleaned and checked for positioning. The solar panels were cleaned of dust and debris and batteries were routinely refilled with distilled water. The precipitation gage measuring tube was recharged with mineral oil when emptied after measuring.

Instrumentation for Turbulent Flux Measurements

Two specialized sensors were used for turbulent flux measurements—a KH20 measured water-vapor density fluctuations, and a CSAT3 measured three-dimensional wind-vector and air-temperature fluctuations (fig. 5). A krypton lamp in the KH20 sensor emits an ultraviolet radiation signal along an approximately 1-cm path open to the atmosphere (Campbell Scientific, Inc., 2010a). The signal is attenuated according to the Beer-Lambert law as water vapor absorbs specific frequencies of ultraviolet radiation. A voltage output proportional to the attenuated signal is recorded and related to water-vapor density by a regression function. The CSAT3 measures turbulent fluctuations of horizontal and vertical wind speed using three pairs of non-orthogonally oriented transducers to transmit and receive an ultrasonic signal (Campbell Scientific, Inc., 2010b). The Doppler effect relates the flight time of the signal to wind speed (Campbell Scientific, Inc., 2010b). A CR3000 electronic datalogger (Campbell Scientific, Inc, 2018a) received output from these sensors at a frequency of 10 Hz (10 times per second). The centers of the KH2O and CSAT3 signal

Table 2. Location and general description of measurement sites, Lake Mead and Lake Mohave, Nevada and Arizona.

[**U.S. Geological Survey site identification**: Unique identification number for site as stored in files and databases of the U.S. Geological Survey. **Abbreviations**: USGS, U.S. Geological Survey; mm/dd/yyyy, month/day/year; EC, Eddy covariance]

Site name	U.S. Geological Survey site identification number	Longitude	Latitude	Period of reported measurements (mm/dd/yyyy)	Reference
Lake Mead EC1	360500114465601	3995454	699677	03/01/2010 to 05/24/2011	Moreo and Swancar, 2013
Lake Mead EC2	360500114465601	3996845	700974	05/24/2011 to 08/25/2011; 05/08/2013 to 05/01/2019	Moreo and Swancar, 2013; 2020 study
Lake Mead EC3	360500114465601	3995555	699560	08/25/2011 to 11/23/2011; 06/19/2012 to 05/08/2013	Moreo and Swancar, 2013; 2020 study
Lake Mead EC4	360500114465601	3995677	698662	11/23/2011 to 06/19/2012	Moreo and Swancar, 2013
Lake Mead Sentinel Island platform	360314114450500	3992265	702540	03/01/2010 to 04/22/2013	Moreo and Swancar, 2013
Lake Mead Boulder Basin platform	360246114443000	3991423	703436	04/22/2013 to 04/25/2017	Moreo, 2018
Lake Mohave EC1	352129114363501	3914696	717197	05/01/2013 to 04/30/2019	2020 study
Lake Mohave floating platform	352550114390700	3923324	713155	04/11/2013 to 09/30/2016	Moreo, 2018

paths were separated by 10 cm horizontally and both sensors were positioned vertically. Solar radiation was measured with an Apogee CS300 pyranometer (Campbell Scientific, Inc., 2018b), air temperature and relative humidity was measured with a Rotronic HC2S3 probe (Campbell Scientific, Inc., 2017), and rain was measured with a NovaLynx: 260-2510 standard rain gauge (NovaLynx, 2007). The orientation and positioning of the sensors were selected during each installation to minimize airflow disruptions that could be caused by the support structure and other sensors. All instruments were calibrated by the manufacturer shortly before installation and recalibrated according to manufacturer guidelines.

Instrumentation for Available Energy Measurements

The floating platforms were initially installed in Lake Mead as part of a large project to collect near-continuous, depth-dependent water-quality data (Veley and Moran, 2012). In 2013, evaporation instruments were added to the platform to provide data to calculate available energy, and an identical platform was installed on Lake Mohave (fig. 6). A Kipp & Zonen NR-LITE2 net radiometer, a CS300 pyranometer, a Campbell Scientific 107 water-surface temperature probe, an HC2S3 temperature and relative humidity probe, and a Windsonic1 2-D sonic anemometer were installed on the platforms during most of the study. Radiation sensors were oriented facing south to eliminate shading from other parts of the platform. Platform orientation was maintained using two anchors, with lines adjusted periodically as the lake stage rose and fell to maintain tension. Some shifting of the platform orientation and level was inevitable, especially during strong winds, but it was assumed to be less than 10 degrees in any direction and not to have affected the Q_n measurements substantially.

Water-temperature profiles of the lakes are required to calculate Q_x. An automated variable-depth winch on each platform lowered a multiparameter sonde to measure a water-temperature profile every 6 hours starting at midnight (Veley and Moran, 2012). The first water-temperature measurement was at 1 m depth, and each successive measurement was 5 m deeper until just above the lake bottom. The total depth of the temperature profile for Lake Mead during the study varied

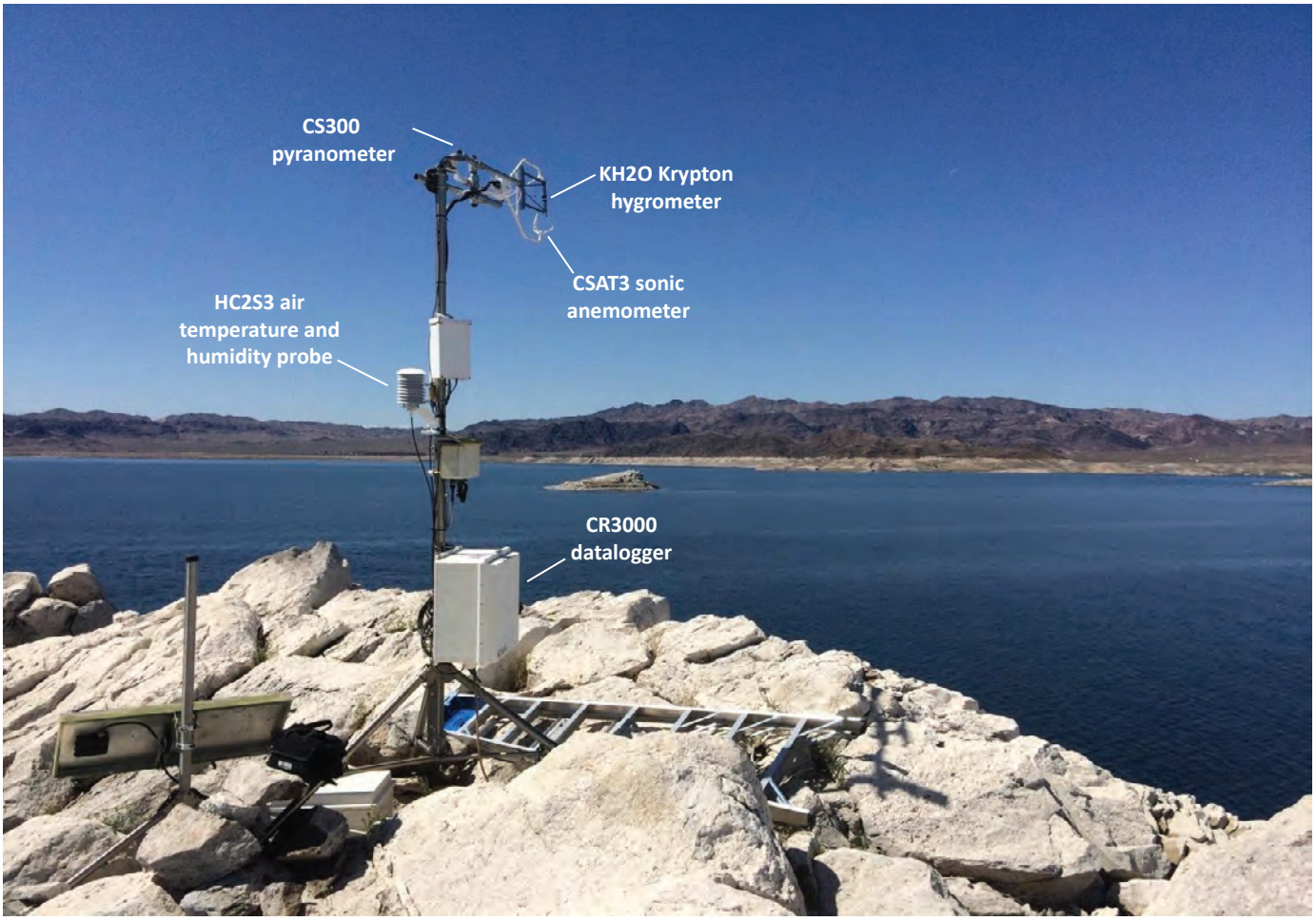


Figure 5. Eddy covariance station, EC2, showing turbulent flux sensors position, Lake Mead, Nevada and Arizona

from 61 m, when the lake stage was at its low point, to 81 m at its high point. Total depth at Lake Mohave ranged from 23.5 to 28.5 m while the floating platforms were active.

Net radiation was measured by three radiometers over the course of the study. The primary sensor at Lake Mead from 2010 until June 2012 was a 2-component (net shortwave and longwave radiation) radiometer (Model CNR2; Campbell Scientific, Inc., 2010c). From June 2012 to April 2017, Q_n was measured on the Lake Mead and Lake Mohave platforms using a NR-LITE2 net radiometer (fig. 6; Campbell Scientific, Inc., 2019). A 4-component (incoming and outgoing shortwave and longwave radiation) radiometer (Model CNR1) of higher quality than the other net radiometers used for the study was periodically deployed on Lake Mead for use as a reference meter for both lakes (Campbell Scientific, Inc., 2011). Net radiation measurements were adjusted to achieve consistency between sensors and station locations based on comparisons to readings from the CNR1. From April 2017 until May 2019, Q_s was measured using CS300 pyranometers at the Lake Mead and Lake Mohave EC stations and converted to Q_n using relations developed between coincident Q_s and Q_n measurements (fig. 5).

Data Collection and Reduction Procedures

Raw EC data were collected as a 10-Hz time series data and were post-processed using EdiRe software (Campbell Scientific, Inc., 2008). Thirty-minute, block-averaged covariances (eqs. 4 and 5) were computed from sampled 10-Hz data after filtering spikes (Højstrup, 1993) and removing any lag between CSAT3 and KH2O signal outputs.

Poor-quality or unrepresentative 30-minute flux data were identified and removed by applying filters for the following situations (1) attenuation of the KH2O millivolt output signal caused by water accumulation during precipitation events, (2) greater than 10 percent of the 18,000 individual measurements by the CSAT3 that make up a 30-minute block average either filtered or missing, or (3) spikes of KH20 Q_e and Q_h measurements outside of expected ranges (based on visual inspection of site-specific historical ranges and Ameriflux guidance from Law and others, 2005).

Several commonly used corrections were applied to raw EC measurements to compensate for limitations both in the EC theory and equipment design. To correct errors associated with small misalignments of the CSAT3, raw covariances were two-dimensionally rotated to align with the mean streamlines of airflow, which forced the mean vertical and

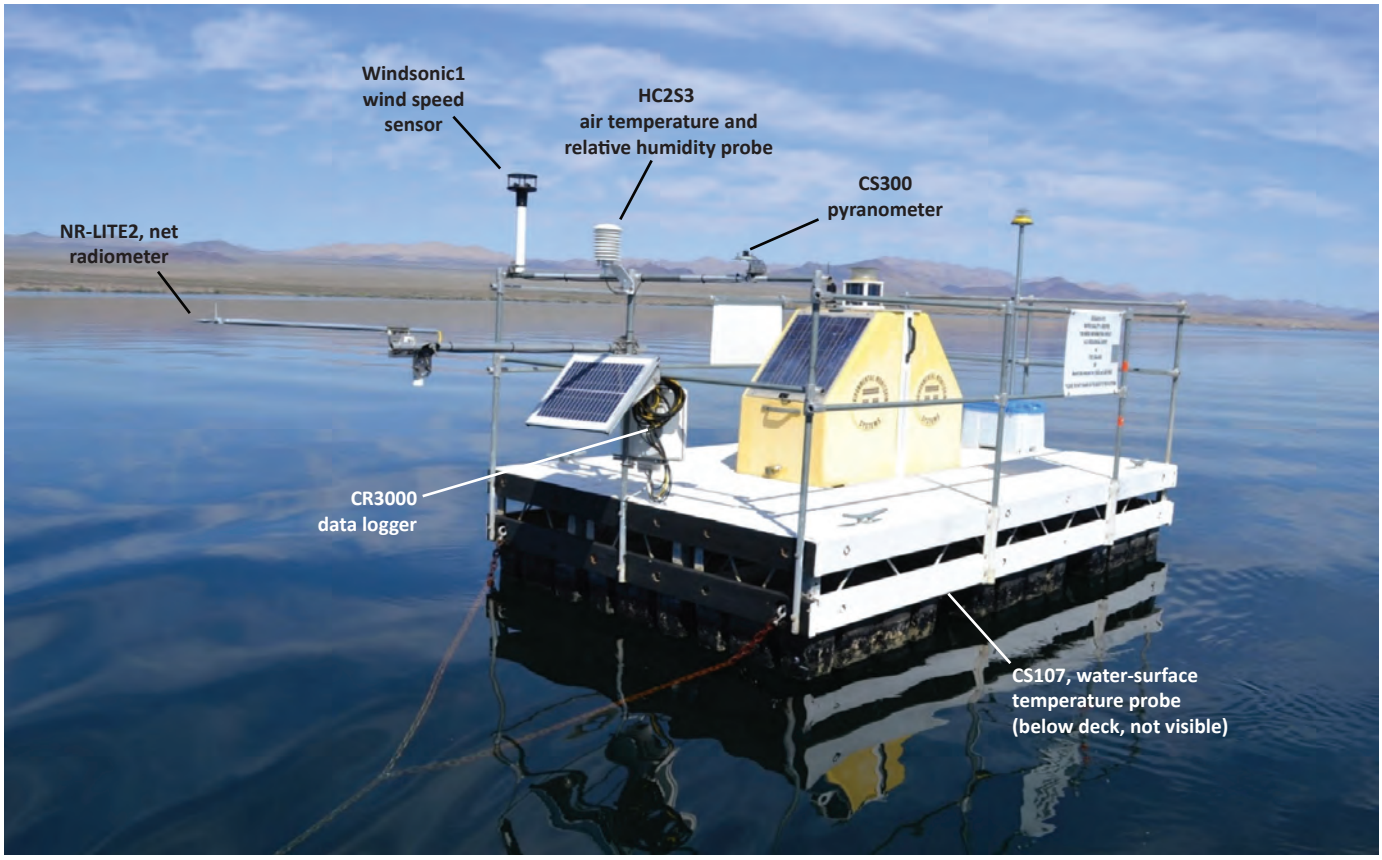


Figure 6. Floating platform showing available energy sensor positioning, Lake Mohave, Nevada and Arizona.

crosswind velocities to zero (Kaimal and Finnigan, 1994). Frequency response corrections were applied that compensate for the inability of eddy sensors to measure contributions from the largest (greater than 1 km) and smallest (less than 10 cm) eddies due to averaging time and sensor geometry such as path-length averaging and sensor separation (Moore, 1986). The contribution to non-zero average vertical wind speed caused by variations in the density of rising and falling air is corrected following Webb and others (1980). The slight attenuation of the KH20 signal caused by oxygen in the 1-cm signal path, which is proportional to the Q_h, was corrected as suggested by Tanner and Greene (1989). In addition, Q_h data were corrected for air density and sound-path deflection of sonic-derived temperatures (Schotanus and others, 1983). An additional filter was applied to Lake Mohave EC data to remove data when wind passed over the western portion of Cottonwood Island (from 225 to 275 compass degrees).

Net radiation was corrected for wind speed when wind speed was less than 5 m/s following the NR-LITE2 manual (Campbell Scientific, Inc., 2019). A CNR1 4-component reference radiometer was used to calibrate the CNR2 and NRLite2 net radiometers installed on the floating platforms. The calibration corrections are statistical regressions based on a period of dual service when both the NRLite2s and the CNR1 were active in 2015. A CNR1 regression equation of Y=1.0729x –1.3791 was applied to Q_n data at Lake Mead from March 1, 2013, to April 19, 2017. A CNR1 regression equation of Y=1.0862 x +3.77 was applied to Q_n data at Lake Mohave from March 1, 2013, to September 30, 2016.

Gap Filling Missing or Bad Turbulent-Flux Data

Once questionable data were identified and removed, the resulting gaps in 30-minute values were filled using estimated values. The estimation method depended on the gap length. Any gaps in Q_e or Q_h data occurring for less than 9 hours were filled by linear interpolation between values measured before and after the gap period. For larger gaps (table 3), the mean diurnal variation (MDV) method was applied. The MDV method replaces missing values with the average of measured values for the same half-hour period for the 7 days before and after the gap (Falge and others, 2001). Gaps in Q_e and Q_h greater than a month were estimated by subtracting partial monthly means from full monthly means of adjacent data and then dividing by the count of missing data points. Installed instrumentation performed as expected, with typical amounts of missing data for these installations. Approximately 10.8 percent of the Q_e data at Lake Mead and 7.9 percent of the Q_h data at Lake Mohave were filtered and gap-filled over the period of record.

Thirty-minute averaged, filtered, and gap-filled evaporation rates were summed into daily, monthly, and annual evaporation-rate estimates for the period of record (May 2010 through May 2019). Thirty-minute evaporation rates and EC data collected at the EC stations are archived in the USGS National Water Information System database (U.S. Geological Survey, 2021), which can be accessed at https://waterdata.usgs.gov/nwis, using the U.S. Geological site identification numbers listed in table 2.

Evaporation from Lake Mead and Lake Mohave

Evaporation for Lake Mead and Lake Mohave is calculated in 30-minute increments from latent-heat measurements, summed into monthly increments, and adjusted using annual energy balance data. Evaporation adjusted to force closure of the energy balance equation is summed into monthly and annual evaporation for each lake. Energy balance closure is necessary when turbulent fluxes and independently measured available energy are not equal at some determined time scale. The EBR is a commonly used metric to quantify energy balance closure. Energy balance ratios are unitless and are calculated as turbulent fluxes divided by available energy fluxes.

An EBR of 1 represents perfect energy balance. Wilson and others (2002) studied the results of several evaporation studies and reported an average annual EBR value of 0.80, implying that on average 80 percent of available energy is accounted for by turbulent-energy measurement. The annual EBR is considered more accurate than monthly EBRs in this study because estimating monthly Q_x and Q_v in lakes as large, complex, and dynamic as Lake Mead and Lake Mohave is

Table 3. Turbulent flux and available energy data gaps at Lake Mead and Lake Mohave, Nevada and Arizona, 2015–18.

[**Parameters**: Q_e, latent-heat flux; Q_h, sensible-heat flux; Q_n, net radiation. **Abbreviation**: mm/dd/yyyy, month/day/year]

From (mm/dd/yyyy)	To (mm/dd/yyyy)	Parameter established	Cause
Lake Mead			
08/13/2015	09/21/2015	Q_e, Q_h	Station tipped over
07/20/2016	09/07/2016	Q_e	Krypton hygrometer failed
Lake Mohave			
04/03/2017	05/04/2017	Q_e, Q_h, Q_n	Station tipped over
07/19/2018	08/16/2018	Q_e, Q_h, Q_n	Data download failure

subject to large uncertainties (Moreo and Swancar, 2013). Annual EBR values at Lake Mead ranged from 0.91 to 1.08, with a period of record mean of 0.98 (table 4). Annual EBR values at Lake Mohave ranged from 0.64 to 1.02, with a period of record mean of 0.82 (table 5).

In this study, evaporation computed from measured Q_e using EC was considered a probable minimum because measurements may have been affected by the adjacent desert. Probable maximum evaporation represents evaporation adjusted upwards for forced closure to satisfy the energy budget equation. A probable maximum was computed by adjusting measured annual turbulent fluxes using annual EBRs to achieve energy balance closure. Most probable evaporation represents the average between minimum and maximum evaporation and is used for all monthly calculations in this study.

Monthly Estimates

Monthly evaporation and summary statistics are presented in table 6 for Lake Mead and in table 7 for Lake Mohave. Evaporation estimates at both lakes are lowest in February and peak in August for Lake Mead (fig. 7*A*) and peak in September for Lake Mohave (fig. 7*B*). Monthly mean evaporation rates at Lake Mead are substantially greater than Lake Mohave from June through November (fig. 7*C*), which is attributable to a substantial difference in mean monthly available energy between the lakes.

Available Energy

There was a large difference in mean monthly available energy between the two lakes (fig. 8*A*). Available energy measurements at Lake Mead are mostly stable throughout the year while measurements at Lake Mohave rise sharply over the course of the summer and fall seasons. The range in monthly available energy at Lake Mead (82–190 W/m^2) was smaller than that measured at Lake Mohave (17–262 W/m^2). Available energy was greater at Lake Mead from January to September, and greater at Lake Mohave from October to December (fig. 8*A*).

Mean monthly Q_n was similar at both lakes, following a typical sinusoidal, mid-latitude, northern hemisphere pattern with a peak in June and trough in December (fig. 8*B*). Summer Q_n was slightly greater at the more northern Lake Mead, and winter Q_n was slightly greater at the more southern Lake Mohave. Net radiation at both lakes was greater than at most land-based sites because the surface reflectivity of clear, open water is low. The dip in Q_n at Lake Mohave in July and August is likely due to an underestimation of Q_n during a period of missing data from July 19, 2018, to August 16, 2018 (table 3).

Net radiation provided most of the energy available for evaporative processes; however, changes in Q_x and Q_v were both important energy fluxes during this study. The depth of Lake Mead and the inflow temperature of Lake Mohave resulted in a notable seasonal lag in energy availability. Heat storage is usually near zero when averaged over a year (when the lake level is relatively constant) because energy moves into and out of storage through the seasons. Although mean annual Q_x were similar and near zero for Lake Mead (–2 W/m^2) and

Table 4. Annual energy balance and summary statistics, Lake Mead, Nevada and Arizona, January 2011 through December 2018.

[**Units**: watts per square meter unless otherwise noted. Note: Annual change in stored heat (Q_x) values for the years 2016 through 2018 represent periods of data that were estimated following the removal of the floating platforms and were not independently measured. **Abbreviation**: EBR, energy balance ratio]

Year	Net radiation (Q_n)	Change in stored heat (Q_x)	Advected heat (Q_v)	Latent-heat flux (Q_e)	Sensible-heat flux (Q_h)	Available energy	Turbulent flux	EBR (unitless)	Bowen ratio (unitless)
2011	137	32	34	138	–7	139	131	0.94	–0.05
2012	133	–9	0	139	–9	142	130	0.91	–0.07
2013	126	–9	–2	133	–4	134	130	0.97	–0.03
2014	130	–7	–1	143	–12	135	131	0.97	–0.08
2015	131	–8	2	154	–7	141	147	1.05	–0.05
2016	130	–2	6	159	–10	138	149	1.08	–0.06
2017	131	–6	6	149	–11	142	138	0.97	–0.07
2018	128	–6	3	146	–13	137	133	0.97	–0.09
Period of record summary statistics									
Mean	131	–2	6	145	–9	138	136	0.98	–0.06
Standard deviation	3	14	12	9	3	8	8	0.05	0.02
Maximum	137	32	34	159	–4	142	149	1.08	–0.03
Minimum	126	–9	–2	133	–13	134	130	0.91	–0.09

Table 5. Annual energy balance and summary statistics, Lake Mohave, Nevada and Arizona, January 2014 through December 2018.

[**Units**: watts per square meter unless otherwise noted. **Note**: Annual change in stored heat (Q_x) values for the years 2016 through 2018 represent periods of data that were estimated following the removal of the floating platforms and were not independently measured. **Abbreviation**: EBR, energy balance ratio]

Year	Net radiation (Q_n)	Change in stored heat (Q_x)	Advected heat (Q_v)	Latent-heat flux (Q_e)	Sensible-heat flux (Q_h)	Available energy	Turbulent flux	EBR (unitless)	Bowen ratio (unitless)
2014	125	4	–19	117	–25	102	92	0.89	–0.22
2015	132	–7	–13	109	–21	126	89	0.7	–0.19
2016	139	0	–10	105	–22	130	83	0.64	–0.21
2017	134	1	–11	132	–28	122	104	0.85	–0.21
2018	115	1	–14	131	–29	100	102	1.02	–0.22
Period of record summary statistics									
Mean	129	0	–13	119	–25	116	94	0.82	–0.21
Standard deviation	10	4	3	13	4	14	9	0.15	0.01
Maximum	139	4	–10	132	–21	130	104	1.02	–0.19
Minimum	115	–7	–19	105	–29	100	83	0.64	–0.22

Table 6. Monthly evaporation and summary statistics, Lake Mead, Nevada and Arizona, March 2010 through April 2019.

[**Units**: millimeters, mm. **Abbreviation**: —, no data]

Year	January	February	March	April	May	June	July	August	September	October	November	December
2010	—	—	100	126	169	179	241	271	224	197	209	110
2011	79	111	90	122	161	180	185	203	180	187	177	166
2012	107	86	107	125	200	240	170	157	180	210	146	156
2013	114	87	60	115	151	177	168	186	200	204	133	149
2014	88	64	95	134	147	211	170	227	219	211	194	118
2015	82	82	104	169	165	187	211	201	202	188	210	153
2016	100	86	120	140	161	234	213	219	217	194	171	133
2017	110	74	115	145	160	209	207	225	221	194	150	152
2018	87	103	97	127	182	215	201	217	222	179	160	126
2019	97	111	81	119	—	—	—	—	—	—	—	—
Period of record summary statistics												
Mean	96	89	97	132	166	204	196	212	207	196	172	140
Standard deviation	13	16	17	16	16	24	25	32	18	11	28	19
Maximum	114	111	120	169	200	240	241	271	224	211	210	166
Minimum	79	64	60	115	147	177	168	157	180	179	133	110

Lake Mohave (0 W/m^2), monthly ranges of Q_x indicate a wider range between the two lakes. The mean monthly change in heat storage was more positive at Lake Mohave during the first half of the year (more energy going into storage) and more negative during the second half of the year than Lake Mead (more energy coming out of storage; fig. 8*C*). This difference between the lakes is driven by depth. Deep lakes will have greater Q_x than shallow lakes because the thicker water column can store more energy; therefore, lake depth has a substantial effect on seasonal evaporation patterns (Sacks and others, 1994; Blanken and others, 2003; Finch and Hall, 2005).

However, the primary component behind the difference in seasonal available energy between Lake Mead and Lake Mohave is Q_v. Advected heat at Lake Mead is lower in the winter months (November–April), while Q_v is lower at Lake Mohave during the summer months (May–October; fig. 8*D*).

Table 7. Monthly evaporation and summary statistics, Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

[**Units**: millimeters, mm. **Abbreviation**: —, no data]

Year	January	February	March	April	May	June	July	August	September	October	November	December
2013	—	—	—	—	145	166	128	170	181	188	105	158
2014	107	65	123	144	152	158	137	157	150	163	151	94
2015	90	81	114	172	145	129	165	165	156	149	202	144
2016	87	115	126	131	148	131	109	167	194	169	172	186
2017	115	49	99	118	185	178	168	207	255	172	124	191
2018	103	110	102	147	172	165	118	175	175	160	141	109
2019	101	97	106	126	—	—	—	—	—	—	—	—
Period of record summary statistics												
Mean	101	86	112	140	158	155	138	174	185	167	149	147
Standard deviation	39	40	43	56	17	20	24	18	38	13	35	40
Maximum	115	115	126	172	185	178	168	207	255	188	202	191
Minimum	87	49	99	118	145	129	109	157	150	149	105	94

Differences in Q_v between Lake Mead and Lake Mohave are due to differences in inflow and outflow water temperatures. Lake Mead inflow temperatures from the Colorado River are warmer over the course of a year, particularly during summer months, than outflow from Hoover Dam, resulting in positive Q_v (fig. 9). Lake Mohave inflow, released from Hoover Dam, includes cool water from deep in the water profile. Lake Mohave outflow, released from near the surface at Davis Dam, is much warmer than inflow. This temperature difference at Lake Mohave results in a persistent loss of energy (negative Q_v), resulting in less energy available for evaporation.

Water-Temperature Profiles

Water-temperature profiles were measured from the floating platforms at Lake Mead and Lake Mohave as part of the water-quality monitoring study (Veley and Moran, 2012). Lake Mead had a maximum sampling depth of 80 m at the floating platform (fig. 10*A*) and Lake Mohave had a maximum sampling depth of 28.5 m (fig. 10*B*). The thicker water column at Lake Mead allows for more energy storage, as evidenced by the pronounced thermocline and near constant low temperatures at the greater depths. The depth of Lake Mead allows it to store energy, effectively moderating fluctuating thermal conditions in the lake. In contrast, the shallower Lake Mohave reacts faster to changes in thermal conditions than Lake Mead. The shallow thermocline rapidly develops and advances at Lake Mohave beginning in June (correlating with peak Q_n), and the epilimnion, or the top layer of a thermally stratified lake, is most pronounced during the hot months of July–October. Because Q_s penetrates the full depth of Lake Mohave more thoroughly than Lake Mead, seasonal temperatures at depth warm and cool much more than Lake Mead. Maximum near-surface temperatures at both lakes occur in August (correlated to maximum air temperature), while minimum near-surface temperatures occur in January–February for Lake Mohave and February–March for Lake Mead. Lake Mead temperatures are higher over the winter because it takes additional time to cool its thicker water column than Lake Mohave.

Evaporation is mostly correlated with Q_n, but this relation is weaker with deeper lakes than shallow lakes (Moreo and Swancar, 2013). In deep lakes, a greater proportion of the Q_n goes to warming the deeper water column in the first half of the year when the lake is still cold, and therefore not as much Q_n is available to drive evaporation. In the fall, the opposite is true for deep lakes; more energy is released from deep storage during the second half of the year, which helps drive evaporation even though Q_n is decreasing. The deeper Lake Mead has a greater thermal mass and thus maintains stored heat per unit area better than Lake Mohave (fig. 8*C*).

Inflow and Outflow Water Temperatures

Temperatures of water flowing into Lake Mead are based on upstream Colorado River temperatures and follow a seasonal pattern, which generally is highest temperatures measured in July and lowest temperatures measured in January (fig. 11). Lake Mead monthly average inflow temperatures ranged from 8.4 to 19.4 °C over the period of record (fig. 11). Lake Mead outflow water temperatures at Hoover Dam are assumed to be the same as Lake Mohave inflow temperatures; these peak in November and have less variation throughout the year, ranging only 4.5 degrees over the period of record (12.1–16.8 °C; fig. 11). Lake Mohave outflow temperatures at Davis Dam peak in September and ranged from 10.4 to 21.8 °C over the period of record. For most of the year (March through November) Lake Mohave outflow temperatures are

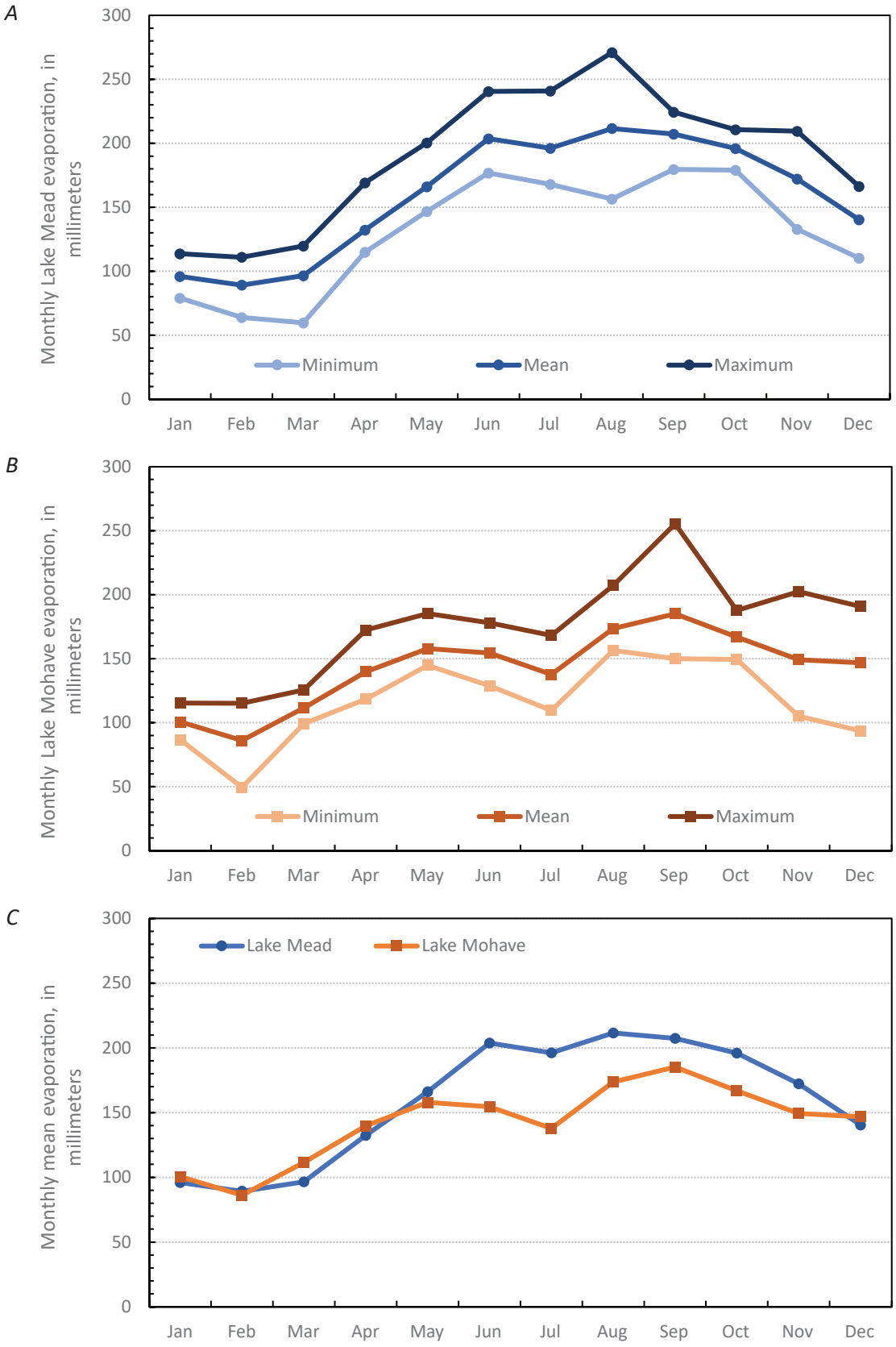


Figure 7. Monthly minimum, mean, and maximum evaporation at *A*, Lake Mead, Nevada and Arizona, March 2010 through April 2019 and *B*, Lake Mohave, Nevada and Arizona, May 2013 through April 2019; and *C*, monthly mean evaporation at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

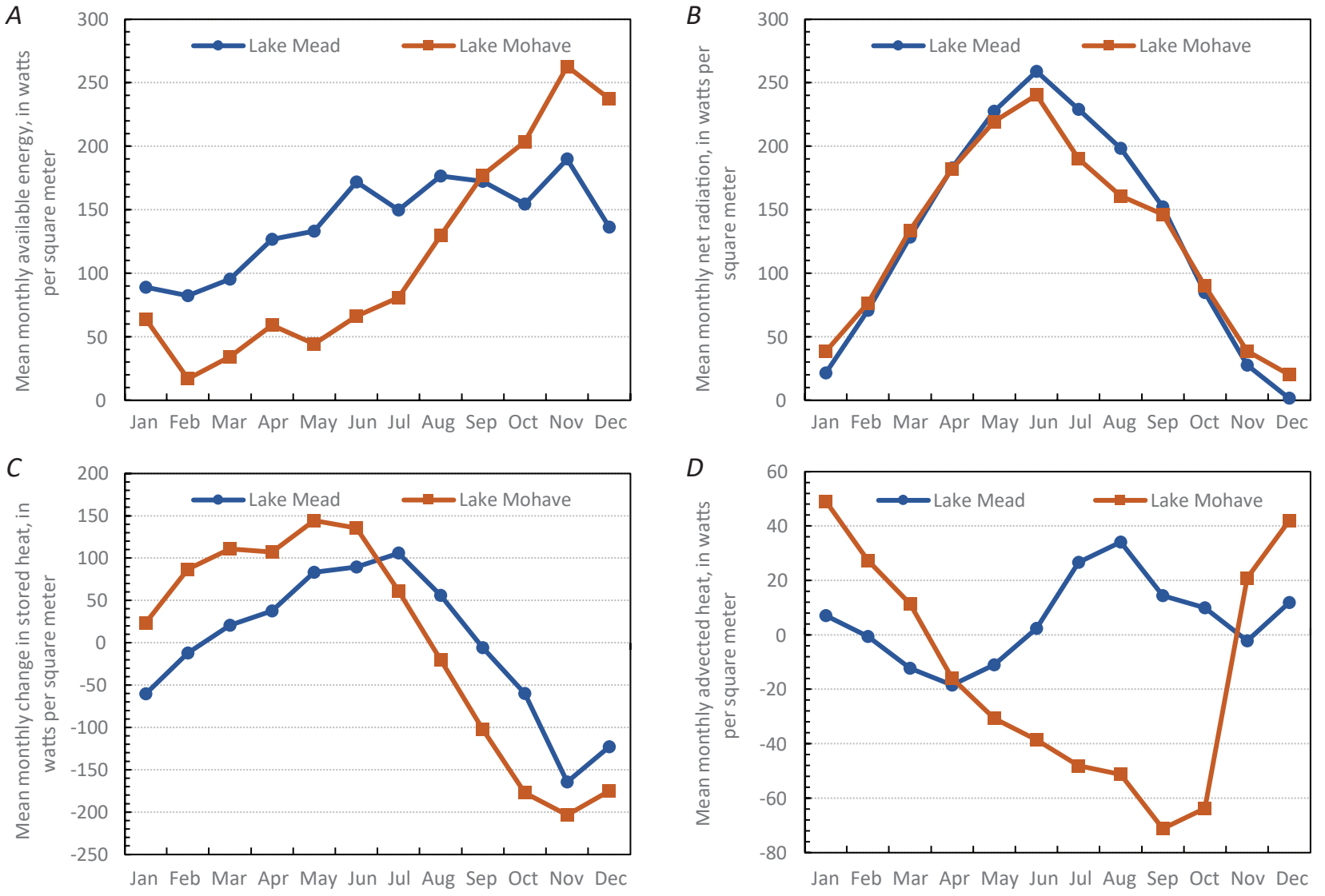


Figure 8. Mean monthly *A*, available energy, *B*, net radiation, *C*, change in stored heat, and *D*, advected heat, Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

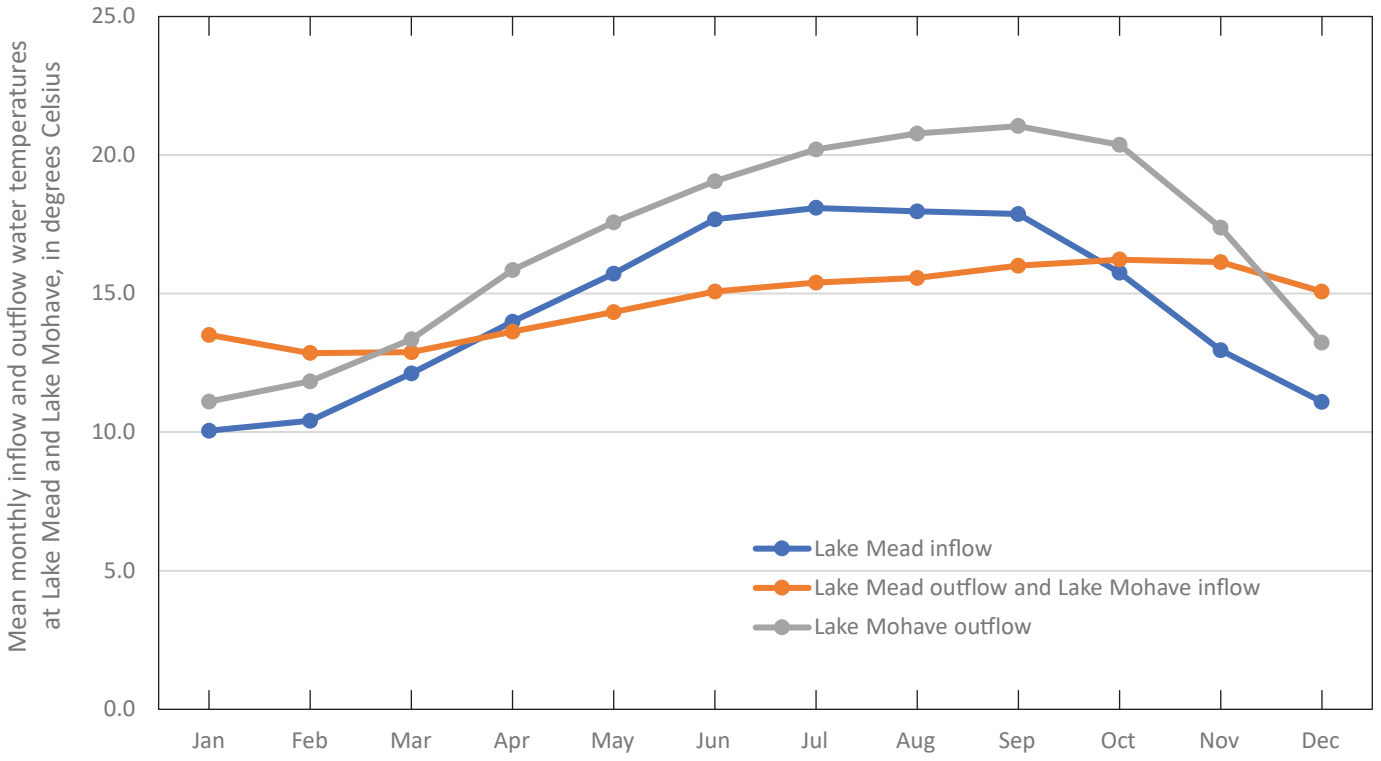


Figure 9. Mean monthly inflow and outflow water temperatures at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

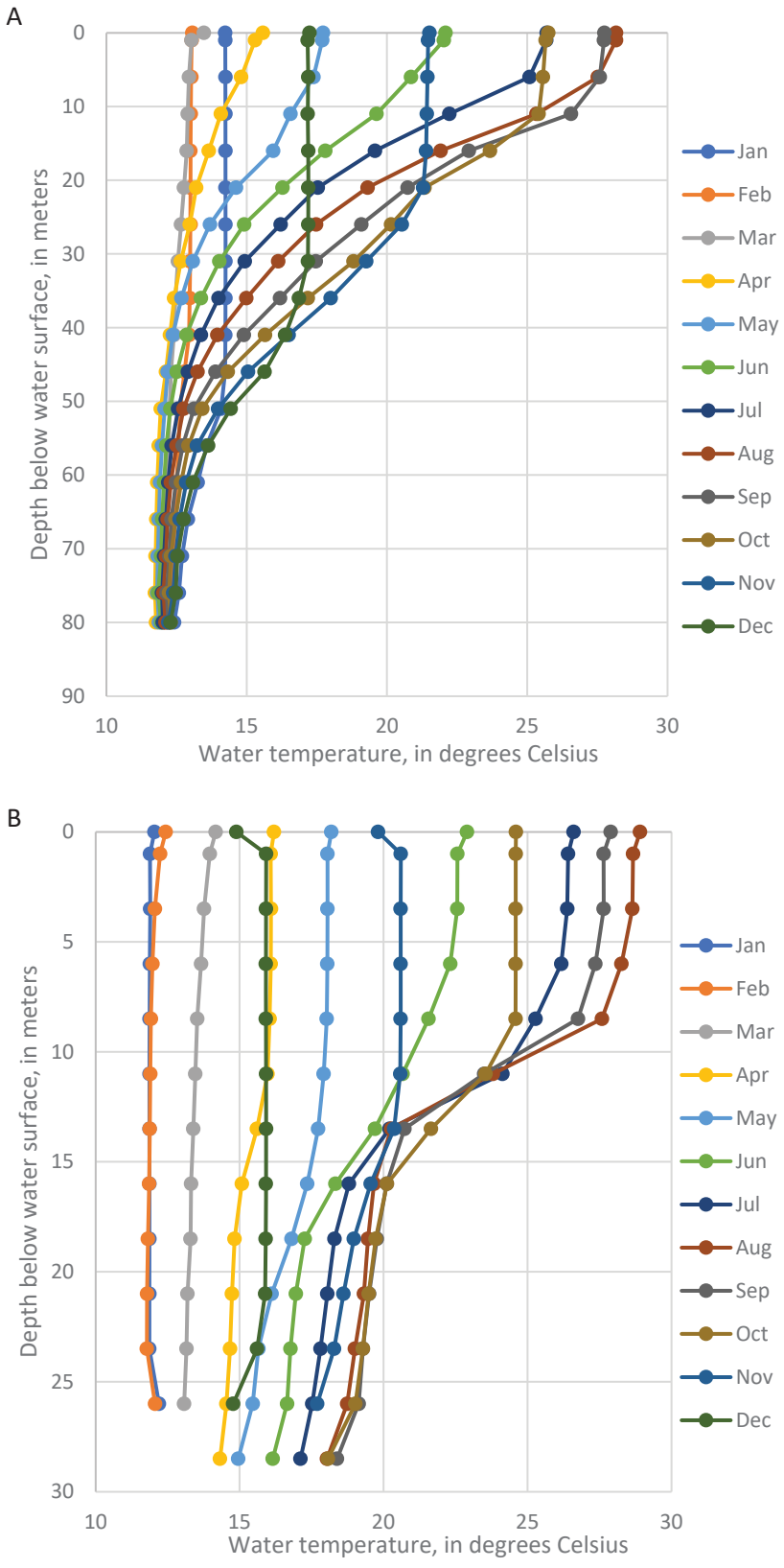


Figure 10. Mean water-temperature profiles by depth at *A*, Lake Mead, Nevada and Arizona, March 2010 through October 2016; and at *B*, Lake Mohave, Nevada and Arizona, May 2013 through October 2016.

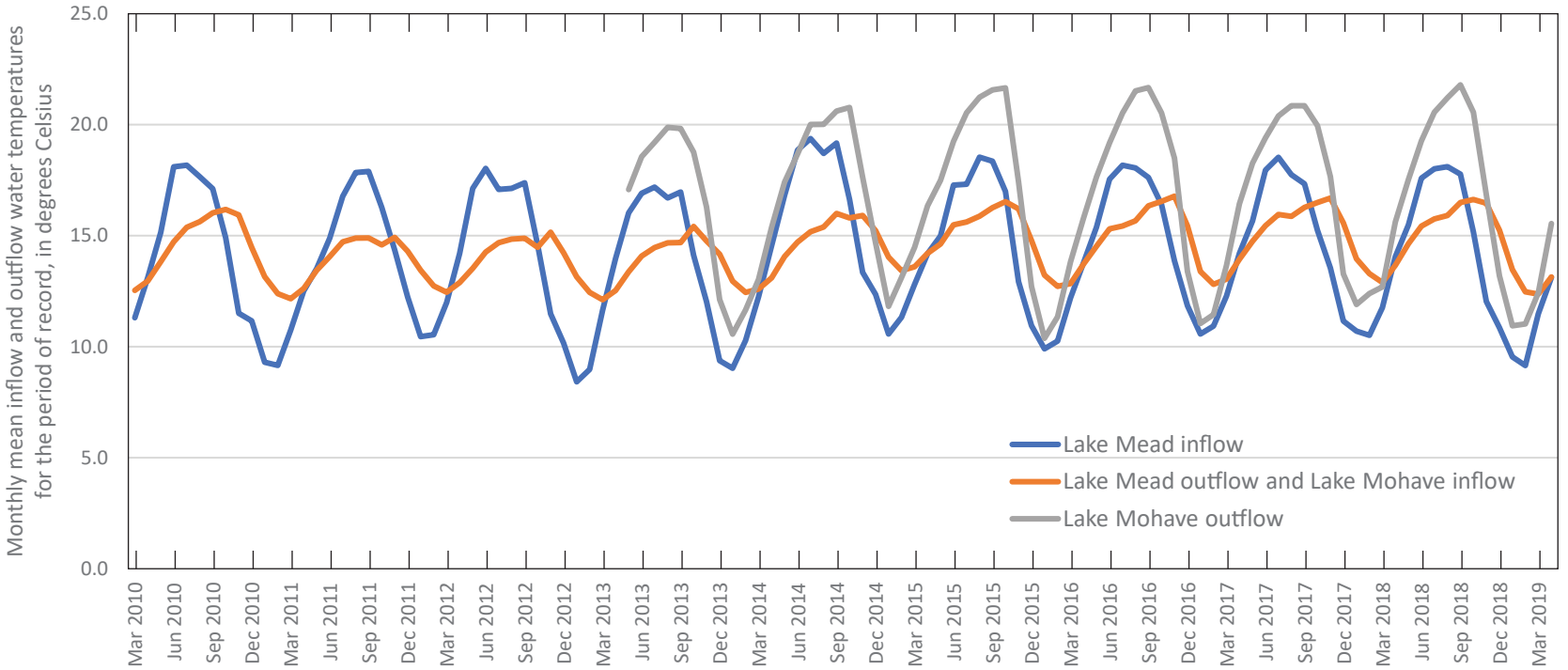


Figure 11. Monthly mean inflow and outflow water temperatures at Lake Mead, Nevada and Arizona, March 2010 through April 2019, and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

higher than inflow temperatures, indicating that the water gains heat between Hoover Dam and Davis Dam. From December through February, the opposite is true; the water is cooled between the dams because inflow temperatures are higher than outflow temperatures. At Lake Mead, the year is split evenly; from April through September, the outflow temperatures are cooler than the inflow temperatures, and from October through March, the inflow temperatures are cooler than the outflow temperatures.

Turbulent Fluxes

Monthly turbulent fluxes mostly increase seasonally from lows in February and March at both lakes to peaks in September for Lake Mohave and in September–November for Lake Mead (fig. 12*A*). Monthly Q_e peaks in September for both Lake Mead and Lake Mohave (fig. 12*B*). Monthly Q_h is most negative in June for both lakes, reflecting the greatest difference between the hot summer air and the cold lakes, and is most positive in December (fig. 12*C*). Negative Q_h indicates that the water "extracts" energy from the air. The negative sign indicates a net downward flux of sensible-heat energy into the lake. Mean monthly Q_h was negative or zero for the entire period of record at Lake Mohave and is a result of the year-round cold-water advection into the lake from Lake Mead.

Annual Bowen ratios at Lake Mead ranged from –0.09 to –0.03 and the period of record mean was –0.06 (table 4). Annual Bowen ratios at Lake Mohave ranged from –0.22 to –0.19, and the period of record mean was –0.21 (table 5). The Bowen ratio will be negative if Q_h is negative (fig. 12*D*), which can happen when the lake surface is colder than the air. The mean annual Bowen ratio at Lake Mead of –0.06 is close to zero, indicating that fluctuations of sensible heat tend to cancel out over the course of a year and Q_e measurements need little adjustment when it is balanced to the energy budget. The mean annual Bowen ratio at Lake Mohave of –0.21 indicates that Q_e (evaporation) must be more heavily adjusted when it is balanced to the energy budget.

Annual Available Energy

Annual available energy at Lake Mead was consistently greater than at Lake Mohave (fig. 13*A*). The period of record mean annual available energy was 138 W/m^2 at Lake Mead, an 18 percent difference from the mean annual available energy of 116 W/m^2 at Lake Mohave (tables 4 and 5). This difference is substantial and has important implications for evaporation-rate estimates.

The primary driver of annual available energy differences between the two lakes was Q_v. Annual Q_n (fig. 13*B*) was similar at the two lakes. The period of record mean annual Q_n was 131 W/m^2 at Lake Mead and 129 W/m^2 at Lake Mohave. Annual changes in stored heat were similar for the two lakes during the 3 years of overlapping independent record, 2014–16. The annual change in stored heat ranged from –9 to 32 W/m^2 at Lake Mead and from –7 to 4 W/m^2 at Lake Mohave over the course of this study (fig. 13*C*). Mean annual Q_v was –13 W/m^2 at Lake Mohave compared to 2 W/m^2 at Lake Mead for the same period (January 2013–December 2018; fig. 13*D*). The inflow/outflow temperature difference at Lake Mohave results in a persistent loss of energy (negative Q_v) as more energy is used to heat the lake, resulting in less energy available for evaporation.

Annual Turbulent Fluxes

Annual turbulent fluxes at Lake Mead were consistently greater than at Lake Mohave (fig. 14*A*). This was due to a combination of greater Q_e at Lake Mead (fig. 14*B*) and more negative Q_h at Lake Mohave (fig. 14*C*). Annual EBRs were greater at Lake Mead than at Lake Mohave, indicating less uncertainty at Lake Mead compared to Lake Mohave due to better energy balance closure (fig. 14*D*).

Evaporation is proportional to vapor pressure difference, as described in Moreo and Swancar (2013). Vapor pressure difference was computed at the floating platforms as an independent check on EC measurements. Mean monthly vapor pressure difference was computed from data collected at the floating platforms at Lake Mead and Lake Mohave from May 2013 through September 2016 (fig. 15). Mean monthly vapor pressure differences magnitudes between Lake Mead and Lake Mohave compare generally to EC based evaporation-rate estimates (fig. 7*C*), with similar seasonal patterns.

Uncertainty Analysis and Limitations

Uncertainties in monthly and annual available energy and EC measurements are quantified according to Moreo and Swancar (2013). There are no formal USGS standards, nor is there a reliable method to evaluate the quality and accuracy of an ET data record. With respect to the completeness, given the small amount of estimated data, the records at both lakes are considered very good. The differences between minimum and most probable annual evaporation (which can be considered a surrogate for uncertainty) at Lake Mead are small, ranging from 25 to 86 mm (0.98 to 3.39 in.) over the period of record, or 1–5 percent of the annual evaporation (fig. 16*A*). At Lake Mohave, the difference is greater, ranging from 16 to 383 mm (0.63 to 15.08 in.) or 1–22 percent of annual evaporation (fig. 16*B*). The differences at Lake Mohave are most pronounced in 2015–16. The large spread in evaporation estimates in 2015–16 parallel periods of low turbulent fluxes measured at Lake Mohave, especially during the summer months when turbulent flux is typically highest.

The EBR is often used to evaluate the performance of an EC system. Energy imbalances are expected to be greater if a significant proportion of measured turbulent fluxes originated from the desert surrounding the lake, which is possibly the case at Lake Mohave. Available energy at the desert surface is less than at the lake surface because the lighter-colored desert surface reflects a greater amount of incoming shortwave

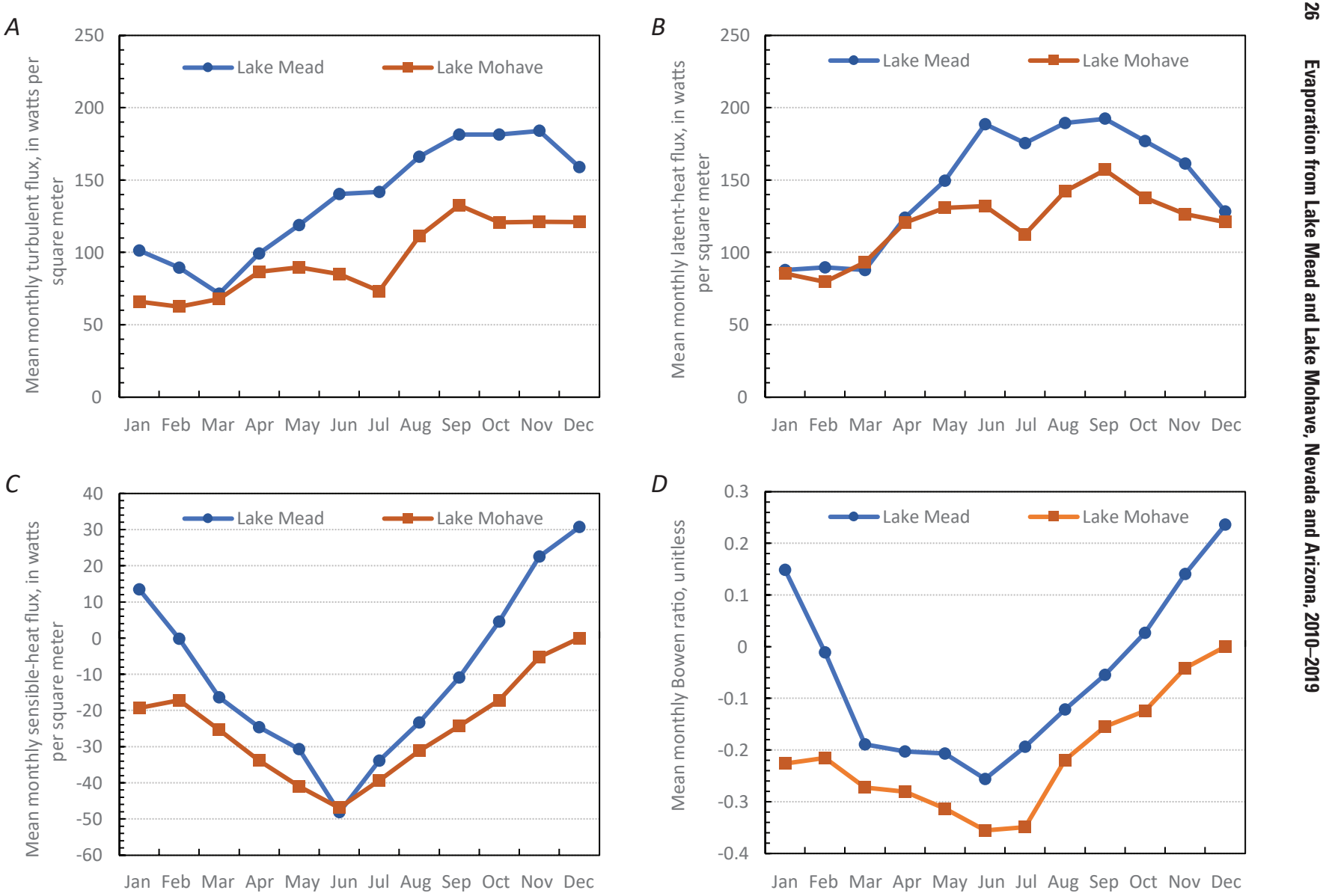


Figure 12. Mean monthly *A*, turbulent flux, *B*, latent-heat flux, *C*, sensible-heat flux, and *D*, Bowen ratio, Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

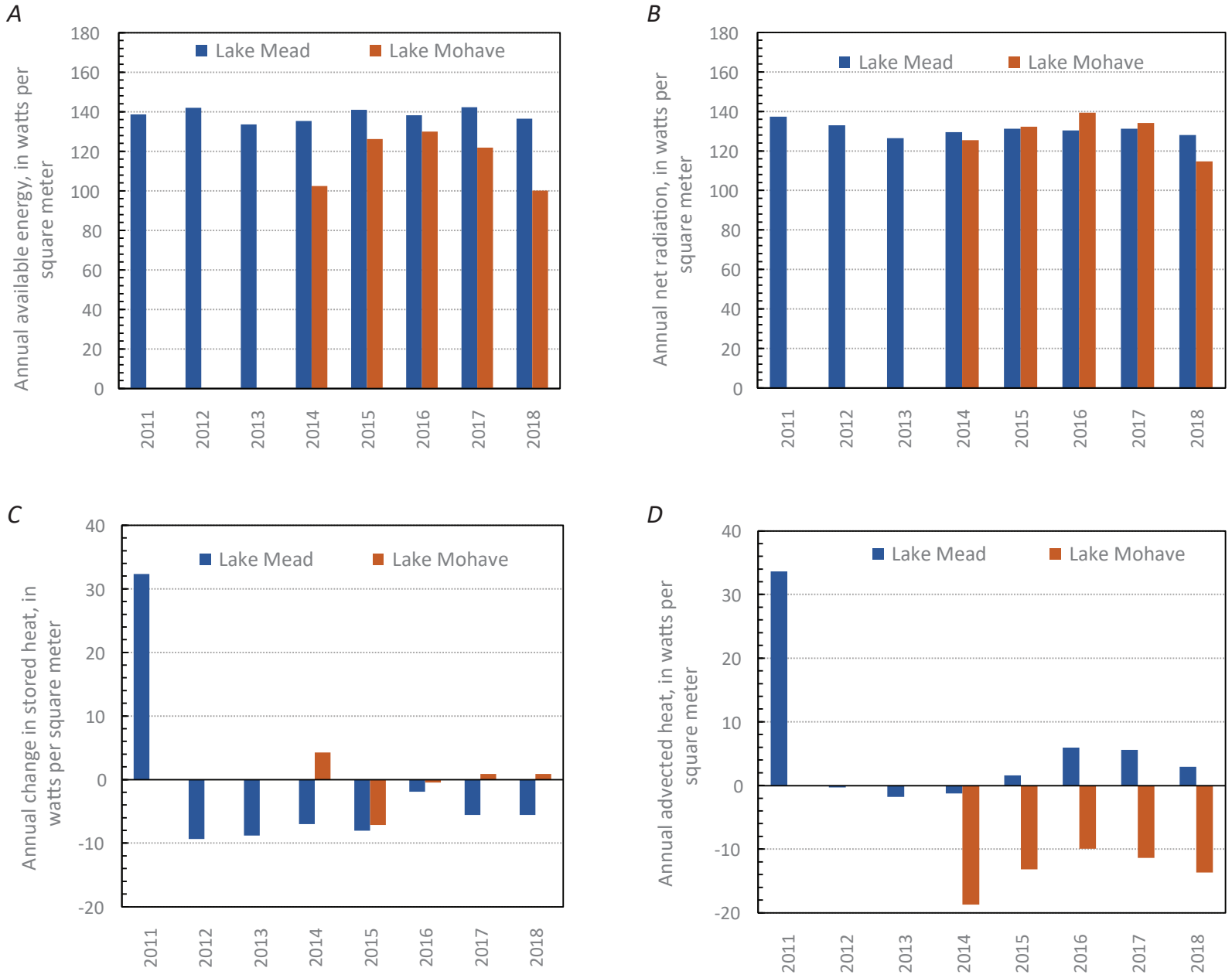


Figure 13. Annual *A*, available energy, *B*, net radiation, *C*, change in stored heat, and *D*, advected heat, Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019.

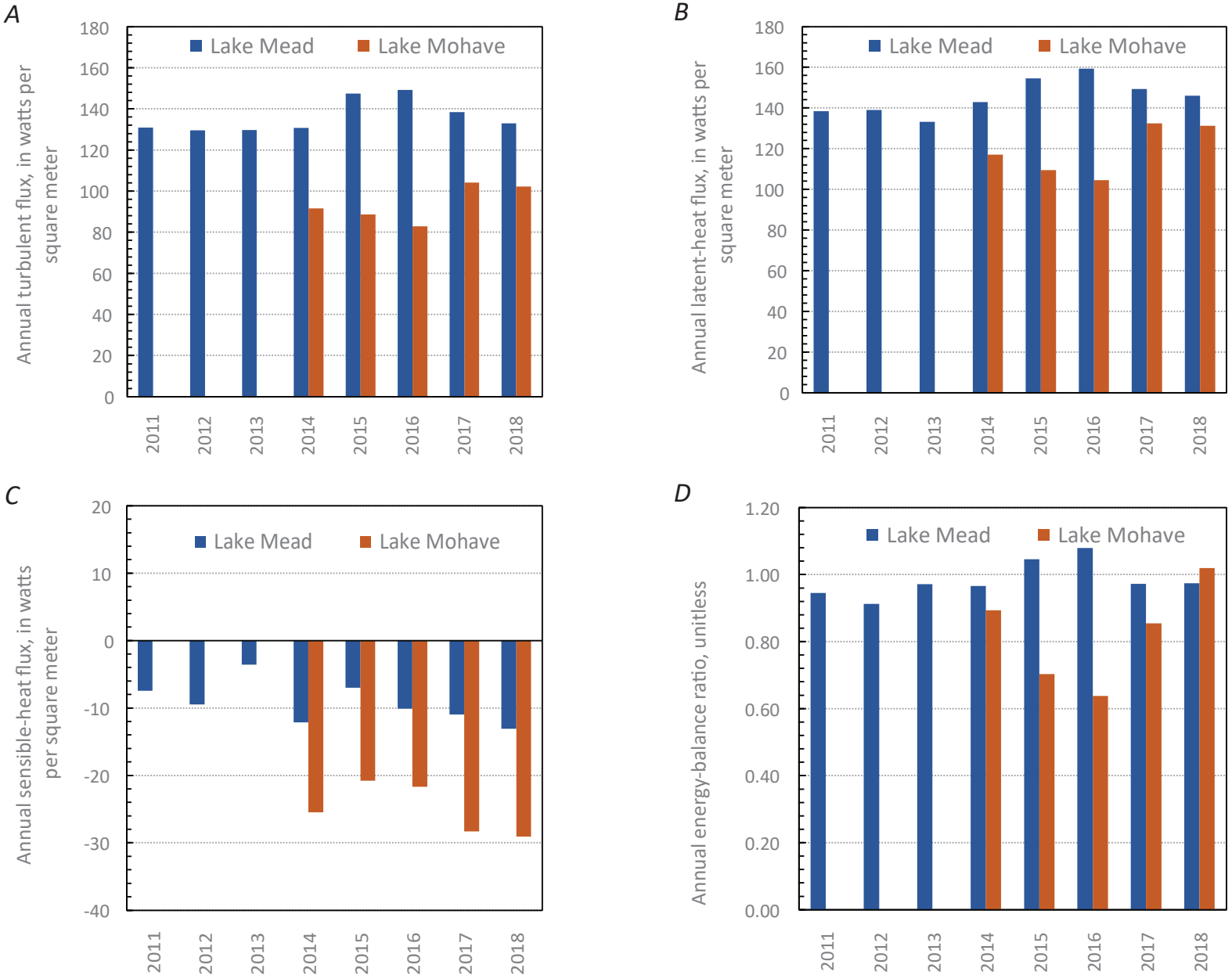


Figure 14. Annual *A*, turbulent flux, *B*, latent-heat flux, *C*, sensible-heat flux, and *D*, energy-balance ratio, Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019.

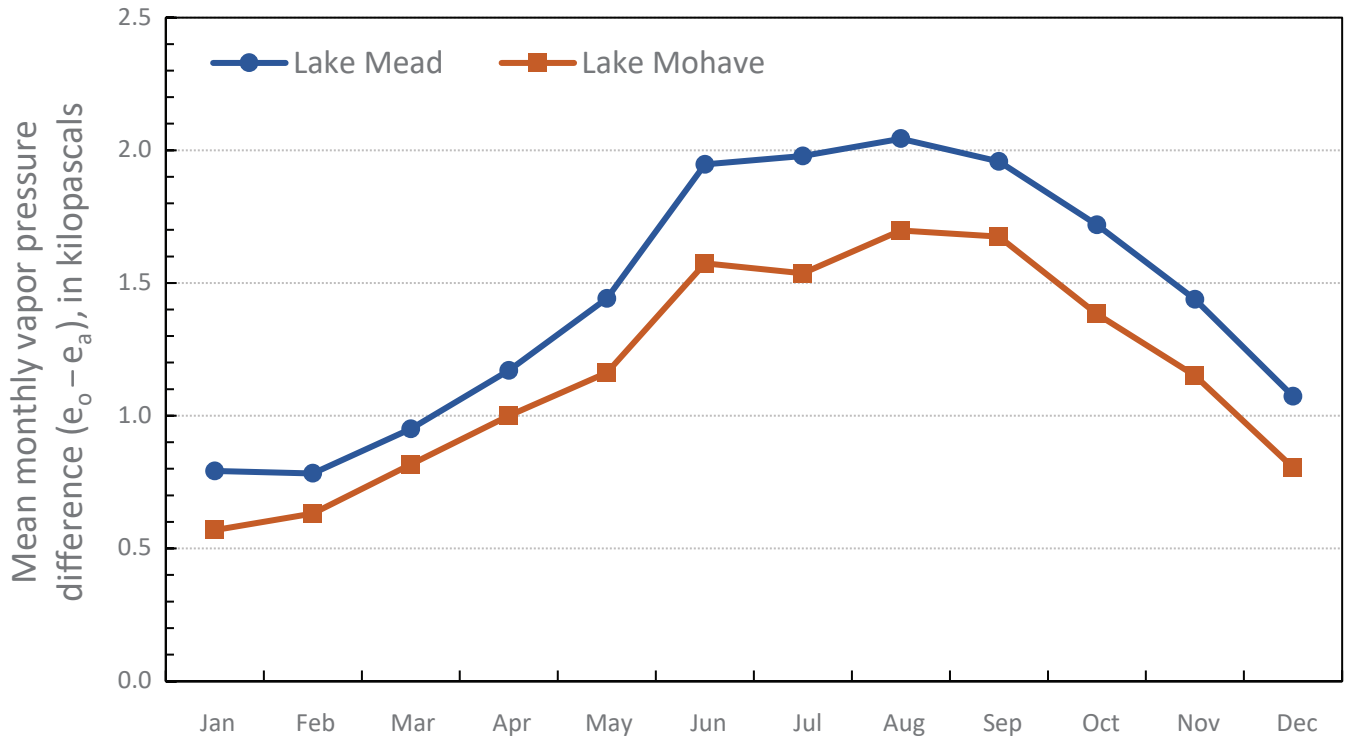


Figure 15. Mean monthly vapor pressure difference at Lake Mead and Lake Mohave, Nevada and Arizona, May 2013 through April 2019.

radiation back to the atmosphere. Furthermore, if the adjacent desert had a significant effect on the energy balance, then a higher Bowen ratio (due to less water vapor) would be evident, as is the case at Lake Mohave. The mean annual EBR of 0.98 and a standard deviation of 0.05 at Lake Mead indicates that 98 percent of estimated available energy was accounted for by turbulent energy flux (table 4). A Bowen ratio of –0.06 at Lake Mead supports the source-area analysis conclusion that EC fluxes are representative of open water and that any impact on flux measurements by the desert surface was minimal. This is less true at Lake Mohave, where a mean annual EBR of 0.82 and a standard deviation of 0.15 indicates that 82 percent of estimated available energy was accounted for by turbulent energy flux (table 5). A mean annual Bowen ratio of –0.21 at Lake Mohave indicates that the desert surface may have had some impact on flux measurements.

Additional uncertainties arose when the platforms and associated available energy sensors were removed from service in 2016 at Lake Mohave and in 2017 at Lake Mead. Net radiation was no longer directly measured and had to be estimated from Q_s. Heat storage was estimated using the lake levels and average water profiles from preceding years. Vapor pressure difference was no longer measured and could not be used as confirmation of EC measurements. However, the estimates of available energy components in the years after the platforms were removed were based on 3 years of collected data and are considered adequate for energy balance purposes.

Annual Estimates

Annual estimates of evaporation at Lake Mead and Lake Mohave were calculated from January through December for each year for the period of record (figs. 16*A* and *B;* tables 8 and 9). Annual evaporation estimates in this study represent the average of minimum probable evaporation estimates (as calculated directly from Q_e measurements using equation 1) and maximum evaporation estimates (evaporation adjusted for forced closure of the energy balance equation). Forced closure of Q_e is calculated by dividing annual Q_e by the annual EBR. The annual percent difference between measured Q_e and forced closed Q_e is used as the forced closure adjustment for evaporation. Annual forced closure percent differences at Lake Mead ranged from –7 to 10 percent over the course of the study, with a period of record mean of 1.7 percent. Annual forced closure percent differences at Lake Mohave ranged from –2 to 56 percent over the course of the study, with a period of record mean of 24 percent. Maximum probable evaporation estimates are calculated by applying the annual forced closure percent differences to evaporation measurements.

Annual evaporation at Lake Mead was consistently greater than at Lake Mohave, primarily from Q_v and sensible-heat differences (fig. 16*C*). Average annual evaporation at Lake Mead was 1,896 mm, a 10 percent difference from the average annual evaporation at Lake Mohave of 1,718 mm (tables 8 and 9). Lake Mead has positive annual Q_v, meaning

Table 8. Annual evaporation and summary statistics, Lake Mead, Nevada and Arizona, January 2011 through December 2018.

[**Units**: millimeters, mm]

Year	Evaporation, probable minimum	Evaporation, most probable	Evaporation, probable maximum
2011	1,788	1,840	1,892
2012	1,798	1,884	1,970
2013	1,717	1,743	1,769
2014	1,846	1,878	1,911
2015	1,908	1,952	1,996
2016	1,912	1,988	2,064
2017	1,935	1,963	1,991
2018	1,891	1,916	1,942
Period of record summary statistics			
Mean	1,849	1,896	1,942
Standard deviation	76	79	88
Maximum	1,935	1,988	2,064
Minimum	1,717	1,743	1,769

Table 9. Annual evaporation and summary statistics, Lake Mohave, Nevada and Arizona, January 2014 through December 2018.

[**Units**: millimeters, mm]

Year	Evaporation, probable minimum	Evaporation, most probable	Evaporation, probable maximum
2014	1,511	1,601	1,691
2015	1,414	1,713	2,012
2016	1,352	1,735	2,118
2017	1,717	1,864	2,010
2018	1,660	1,676	1,693
Period of record summary statistics			
Mean	1,531	1,718	1,905
Standard deviation	156	96	199
Maximum	1,717	1,864	2,118
Minimum	1,352	1,601	1,691

more heat is added to the lake from inflows than is lost to outflows. Lake Mohave has negative annual Q_v, indicating a net downward flux of energy from the atmosphere to the lake.

Comparison to Existing Rate Coefficients

Lake Mead monthly evaporation coefficients for the 24MS study compared reasonably well to evaporation estimates determined in this study (fig. 17*A*). The 24MS monthly evaporation ranged from 21 percent more than to 24 percent less than the most probable estimates of EC mean monthly evaporation, with a mean difference of 4 percent and a standard deviation of 13 percent. The 24MS evaporation coefficients for Lake Mead are reasonable but overestimate evaporation during the peak summer months of July and August. The temporal trend in 24MS evaporation relative to the study evaporation indicates that the effects of heat storage were underestimated, particularly during the fall months when energy is still being released from the lake (Moreo and Swancar, 2013). Peak evaporation lagged peak Q_n by approximately 2 months at Lake Mead and 3 months at Lake Mohave (figs. 7*C* and 8*B*), and monthly evaporation estimates from this study are less variable than the 24MS estimates (fig. 17).

Lake Mohave monthly evaporation coefficients for the 24MS study did not compare as well to evaporation estimates determined in this study (fig. 17*B*). The 24MS monthly evaporation ranged from 67 percent greater to 31 percent less than the most probable estimates of EC mean monthly evaporation, with a mean difference of 20 percent and a standard deviation of 28 percent. The 24MS substantially overestimates evaporation from spring through summer at Lake Mohave. The difference in the seasonal patterns between the 24MS evaporation and this study indicates that the effects of Q_v on evaporation at Lake Mohave were substantially underestimated.

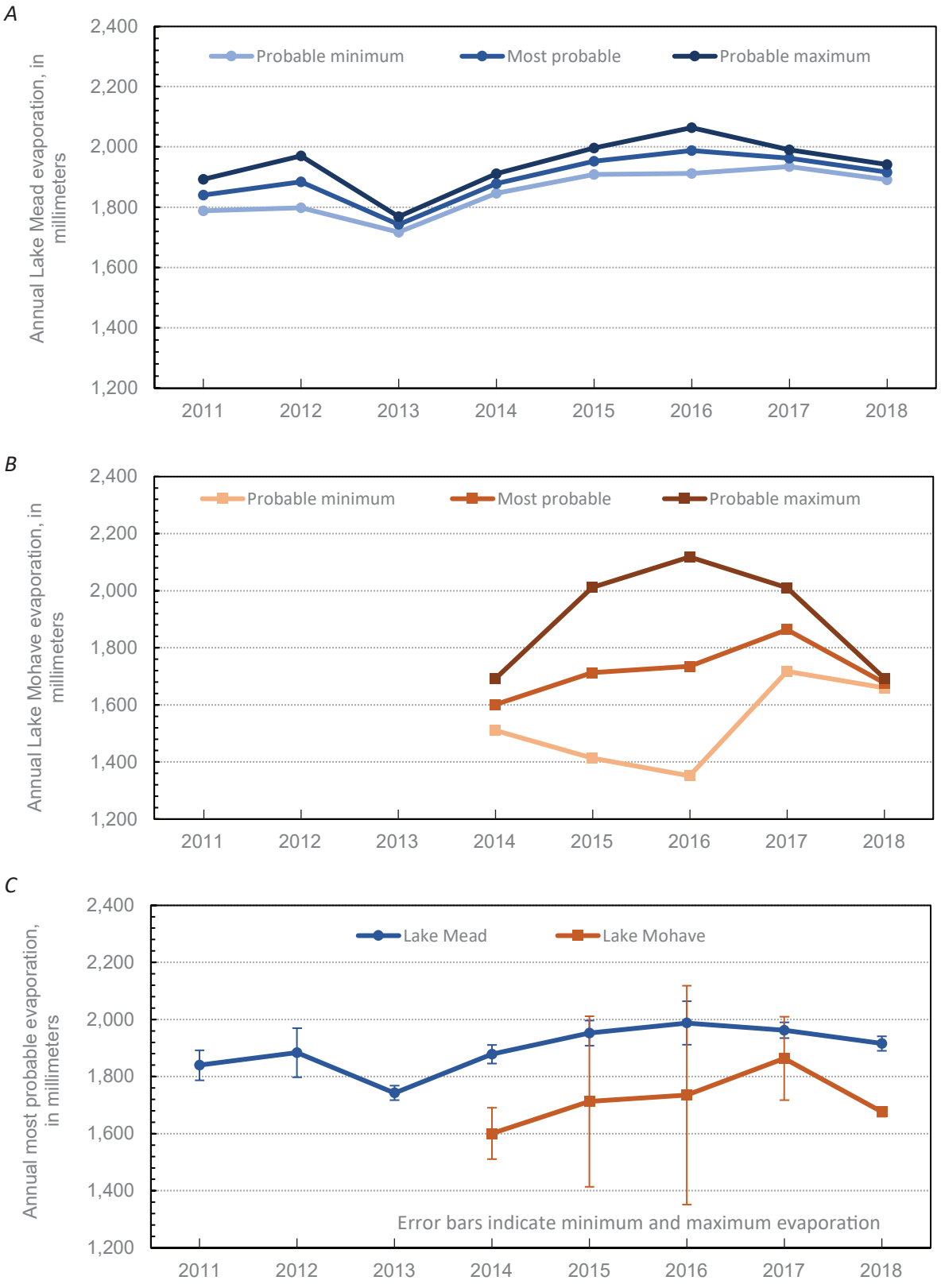


Figure 16. Probable minimum, most probable, and probable maximum annual evaporation at *A*, Lake Mead and *B*, Lake Mohave; and *C*, most probable annual evaporation at Lake Mead and Lake Mohave, Nevada and Arizona, May 2010 through April 2019. Error bars indicate the maximum, minimum, and most probable evaporation estimates in *C*.

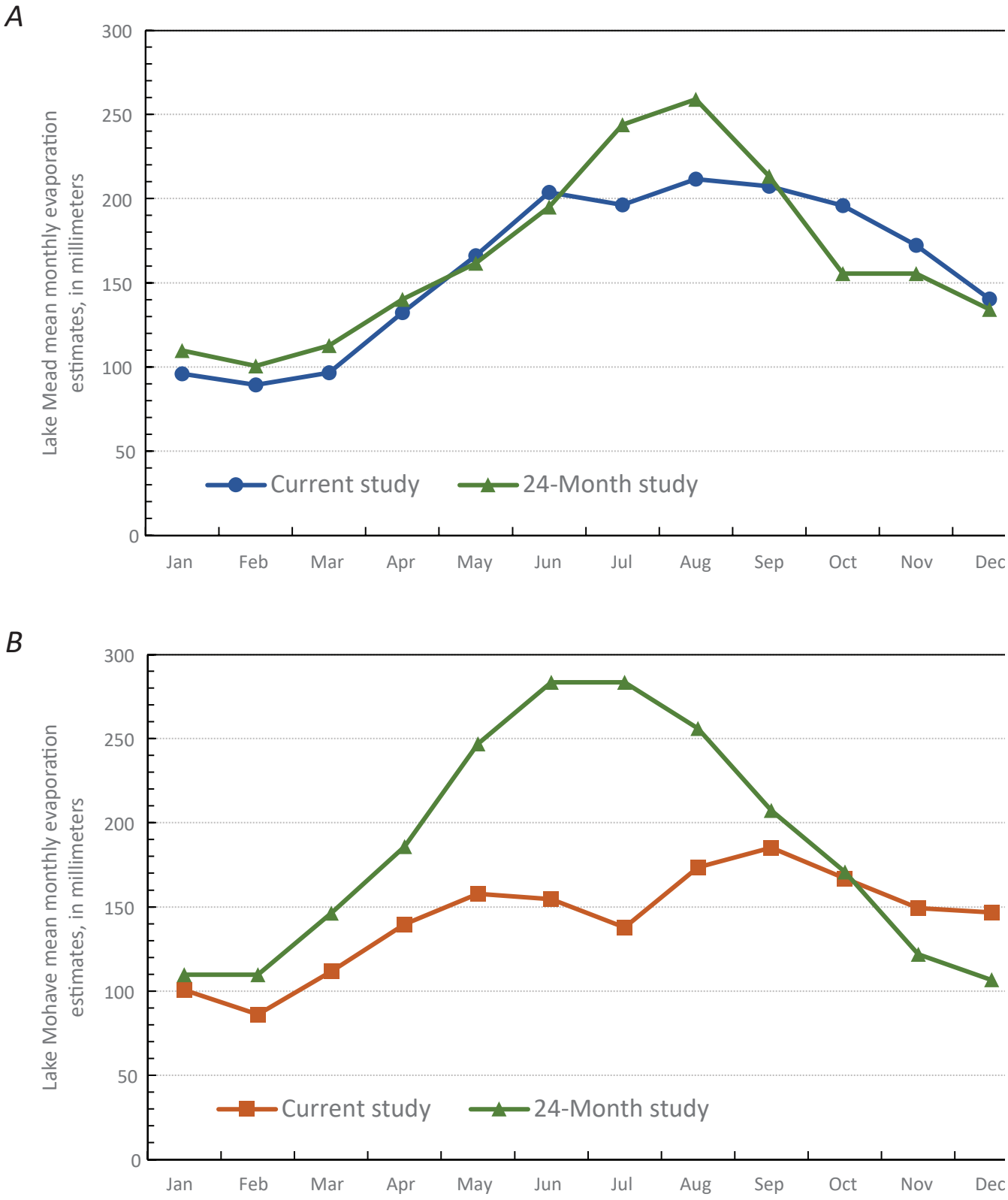


Figure 17. *A*, Lake Mead and *B*, Lake Mohave, Nevada and Arizona, mean monthly evaporation estimates for this study compared to 24-month study (24MS) evaporation coefficients, March 2013 through April 2019.

References Cited

Allen, R.A., Pereira, L.S., Raes, D., and Smith, M., 1998, Crop evapotranspiration—Guidelines for computing crop water requirements—FAO irrigation and drainage paper 56: Rome, Italy, Food and Agricultural Organization of the United Nations, 300 p.

Anderson, E.R., and Pritchard, D.W., 1951, Physical limnology of Lake Mead: U.S. Navy Electronics Lab Report 258, 153 p.

Baldocchi, D.D., 2003, Assessing the eddy covariance technique for evaluating carbon dioxide exchange rates of ecosystems—Past, present, and future: Global Change Biology, v. 9, no. 4, p. 479–492, https://doi.org/10.1046/j.1365-2486.2003.00629.x.

Blanken, P.D., Rouse, W.R., and Schertzer, W.M., 2003, Enhancement of evaporation from a large northern lake by the entrainment of warm, dry air: Journal of Hydrometeorology, v. 4, no. 4, p. 680–693, https://doi.org/10.1175/1525-7541(2003)004%3C0680:EOEFAL%3E2.0.CO;2.

Bowen, I.S., 1926, The ratio of heat losses by conduction and by evaporation from any water surface: Physical Review, v. 27, no. 6, p. 779–787, https://doi.org/10.1103/PhysRev.27.779.

Brutsaert, W.H., 1982, Evaporation into the atmosphere: Boston, Mass., D. Reidel Publishing, 302 p., https://doi.org/10.1007/978-94-017-1497-6.

Bureau of Reclamation, 1955, Davis Dam and powerplant—Technical record of design and construction, Davis Dam project, constructed 1942–53: Denver, Colo., U.S. Department of the Interior, 414 p.

Bureau of Reclamation, 2007, Colorado River interim guidelines for lower basin shortages and coordinated operations for Lakes Powell and Mead: Final Environmental Impact Statement, accessed October 10, 2012, at https://www.usbr.gov/lc/region/programs/strategies/FEIS/index.html.

Campbell Scientific, Inc., 2008, EdiRe software for micrometeorological applications: Campbell Scientific, Inc, App. Note Code: 3C-R, 18 p., accessed March 22, 2021, at https://s.campbellsci.com/documents/fr/technical-papers/edire.pdf.

Campbell Scientific, Inc., 2010a, Instruction manual for KH2O krypton hygrometer, revision 2/10, accessed December 23, 2010, at http://s.campbellsci.com/documents/us/manuals/kh20.pdf.

Campbell Scientific, Inc., 2010b, Instruction manual for CSAT3 three-dimensional sonic anemometer, revision 6/10, accessed September 28, 2011, at http://s.campbellsci.com/documents/us/manuals/csat3.pdf.

Campbell Scientific, Inc., 2010c, Instruction manual for CNR2 net radiometer, revision 5/10, accessed October 10, 2012, at http://s.campbellsci.com/documents/us/manuals/cnr2.pdf.

Campbell Scientific, Inc., 2011, Instruction manual for CNR1 net radiometer, revision 5/11, accessed November 16, 2012, at http://s.campbellsci.com/documents/us/manuals/cnr1.pdf.

Campbell Scientific, Inc., 2017, Instruction manual for HC2S3 temperature and relative humidity probe, revision 4/17, accessed November 13, 2020, at https://s.campbellsci.com/documents/ca/manuals/hc2-s3-l_man.pdf.

Campbell Scientific, Inc., 2018a, Operator's manual for CR3000 micrologger revision 2/18, accessed November 19, 2020, at https://s.campbellsci.com/documents/us/manuals/cr3000.pdf.

Campbell Scientific, Inc., 2018b, Product manual for CS300 and CS301 pyranometers, revision 9/18, accessed November 13, 2020, at https://s.campbellsci.com/documents/us/manuals/cs300.pdf.

Campbell Scientific, Inc., 2019, Product manual for NR-LITE2 net radiometer, revision 6/19, accessed November 19, 2020, at https://s.campbellsci.com/documents/us/manuals/nr-lite2.pdf.

Falge, E., Baldocchi, D., Olson, R., Anthoni, P., Aubinet, M., Bernhofer, C., Burba, G., Ceulemans, R., Clement, R., Dolman, H., Granier, A., Gross, P., Grünwald, T., Hollinger, D., Jensen, N.-O., Katul, G., Keronen, P., Kowalski, A., Ta Lai, C., Law, B.E., Meyers, T., Moncrieff, J., Moors, E., William Munger, J., Pilegaard, K., Rannik, Ü., Rebmann, C., Suyker, A., Tenhunen, J., Tu, K., Verma, S., Vesala, T., Wilson, K., and Wofsy, S., 2001, Gap filling strategies for long term energy flux data sets: Agricultural and Forest Meteorology, v. 107, no. 1, p. 71–77, https://doi.org/10.1016/S0168-1923(00)00235-5.

Ferrari, R.L., 2008, 2001 Lake Mead sedimentation survey—Bureau of Reclamation report: Denver, Colo., Technical Service Center, 212 p.

Finch, J.W., and Hall, R.L., 2005, Evaporation from lakes, chap. 44 *of* Anderson, M.G., and McDonnell, J.J., eds., Encyclopedia of hydrological sciences: John Wiley & Co, Ltd., 12 p., https://doi.org/10.1002/0470848944.hsa047.

Foken, T., 2008, Micrometeorology: Berlin, Heidelberg, Springer, 306 p.

Foken, T., Leuning, R., Oncley, S., Mauder, M., and Aubinet, M., 2012, Corrections and data quality control, chap. 4 *of* Aubinet, M., Vesala, T., and Papale, D., eds., Eddy covariance—A practical field guide to measurement and data analysis: Dordrecht-Heidelberg-London–New York, Springer, p. 85–131, https://doi.org/10.1007/978-94-007-2351-1_4.

Granger, R.J., and Hedstrom, N., 2011, Modelling hourly rates of evaporation from small lakes: Hydrology and Earth System Sciences, v. 15, no. 1, p. 267–277, https://doi.org/10.5194/hess-15-267-2011.

Harbeck, G.E., Jr., Kohler, M.A., Koberg, G.E., and others, 1958, Water-loss investigations—Lake Mead studies: U.S. Geological Survey Professional Paper 298, 100 p., https://pubs.er.usgs.gov/publication/pp298.

Højstrup, J., 1993, A statistical data screening procedure: Measurement Science & Technology, v. 4, no. 2, p. 153–157, https://doi.org/10.1088/0957-0233/4/2/003.

Holdren, G.C., and Turner, K., 2010, Characteristics of Lake Mead, Arizona-Nevada: Lake and Reservoir Management, v. 26, no. 4, p. 230–239, accessed November 24, 2020, at https://doi.org/10.1080/07438141.2010.540699.

Kaimal, J.C., and Finnigan, J.J., 1994, Atmospheric boundary layer flows, their structure and measurement: New York, N.Y., Oxford University Press, 289 p., https://doi.org/10.1093/oso/9780195062397.001.0001.

Law, B.E., Boden, T.A., and the AmeriFlux Steering Committee, 2005, Ameriflux site evaluation and recommendations for network enhancement, December 2005: Ameriflux, 27 p.

Leuning, R., van Gorsel, E., Massman, W.J., and Isaac, P.R., 2012, Reflections on the surface energy imbalance problem: Agricultural and Forest Meteorology, v. 156, p. 65–74, https://doi.org/10.1016/j.agrformet.2011.12.002.

Liu, H., Zhang, Y., Liu, S., Jiang, H., Sheng, L., and Williams, Q.L., 2009, Eddy covariance measurements of surface energy budget and evaporation in a cool season over southern open water in Mississippi: Journal of Geophysical Research, v. 114, no. D4, 13 p., https://doi.org/10.1029/2008JD010891.

Moore, C.J., 1986, Frequency response corrections for eddy correlation systems: Boundary-Layer Meteorology, v. 37, no. 1–2, p. 17–35, https://doi.org/10.1007/BF00122754.

Moreo, M.T., 2015, Evaporation data from Lake Mead and Lake Mohave, Nevada and Arizona, March 2010 through April 2015: U.S. Geological Survey data release, https://doi.org/10.5066/F79C6VG3.

Moreo, M.T., 2018, Meteorological data for Lake Mead and Lake Mohave, Nevada and Arizona, April 2013 to April 2017: U.S. Geological Survey data release, https://doi.org/10.5066/F7G44PJ9.

Moreo, M.T., and Swancar, A., 2013, Evaporation from Lake Mead, Nevada and Arizona, March 2010 through February 2012: U.S. Geological Survey Scientific Investigations Report 2013–5229, 40 p., https://doi.org/10.3133/sir20135229.

National Weather Service, 2013, The climate of Las Vegas, Nevada: National Weather Service Publication, updated November 6, 2013, 153 p., https://www.wrh.noaa.gov/vef/climate/LasVegasClimateBook/Mean%20Average%20Wind%20Speed%20And%20Windiest%20Months.pdf.

National Park Service, 2020, Overview of Lake Mohave webpage, accessed October 29, 2020, at https://www.nps.gov/lake/learn/nature/overview-of-lake-mohave.htm.

NovaLynx, 2007, Instruction manual for model 260-2510 standard rain and snow gauge, accessed February 18, 2020, at https://novalynx.com/manuals/260-2510-manual.pdf.

Ohmart, R.D., Anderson, B.W., and Hunter, W.C., 1988, The ecology of the lower Colorado River from Davis Dam to the Mexico–United States International Boundary–a community profile: U.S. Fish and Wildlife Service, Biology Report 85 (7.19), 296 p., https://apps.dtic.mil/sti/pdfs/ADA323043.pdf.

Omar, M.H., and El-Bakry, M.M., 1981, Estimation of evaporation from the lake of the Aswan High Dam (Lake Nasser) based on measurements over the lake: Agricultural Meteorology, v. 23, p. 293–308, https://doi.org/10.1016/0002-1571(81)90115-1.

Rosen, M.R., Turner, K., Goodbred, S.L., and Miller, J.M., eds., 2012, A synthesis of aquatic science for management of Lakes Mead and Mohave, U.S. Geological Survey Circular 1381, 162 p., https://doi.org/10.3133/cir1381.

Rosenberry, D.O., Winter, T.C., Buso, D.C., and Likens, G.E., 2007, Comparison of 15 evaporation methods applied to a small mountain lake in the northeastern USA—Amsterdam, The Netherlands: Journal of Hydrology (Amsterdam), v. 340, no. 3–4, p. 149–166, https://doi.org/10.1016/j.jhydrol.2007.03.018.

Sacks, L.A., Lee, T.M., and Radell, M.J., 1994, Comparison of energy-budget evaporation losses from two morphometrically different Florida seepage lakes—Amsterdam, The Netherlands: Journal of Hydrology (Amsterdam), v. 156, no. 1–4, p. 311–334, https://doi.org/10.1016/0022-1694(94)90083-3.

Saur, J.F.T., and Anderson, E.R., 1956, The heat budget of a body of water of varying volume: Limnology and Oceanography, v. 1, no. 4, p. 247–251, https://doi.org/10.4319/lo.1956.1.4.0247.

Schotanus, P., Nieuwstadt, F.T.M., and de Bruin, H.A.R., 1983, Temperature measurement with a sonic anemometer and its application to heat and moisture fluxes: Boundary-Layer Meteorology, v. 26, no. 1, p. 81–93, https://doi.org/10.1007/BF00164332.

Smith, W.O., Vetter, C.P., Cummings, G.B., and others, 1960, Comprehensive survey of sedimentation in Lake Mead, 1948-49: U.S. Geological Survey Professional Paper 295, 254 p., https://doi.org/10.3133/pp295.

Stannard, D.I., Gannett, M.W., Polette, D.J., Cameron, J.M., Waibel, M.S., and Spears, J.M., 2013, Evapotranspiration from marsh and open-water sites at Upper Klamath Lake, Oregon, 2008–2010: U.S Geological Survey Scientific Investigations Report 2013–5014, 65 p., https://doi.org/10.3133/sir20135014.

Stull, R.B., 1988, Mean boundary layer characteristics, *in* Stull, R.B., ed., An introduction to boundary layer meteorology–Atmospheric Sciences Library v. 13: Dordrecht, The Netherlands, Springer, p. 1–27, https://doi.org/10.1007/978-94-009-3027-8_1.

Swinbank, W.C., 1951, The measurement of vertical transfer of heat and water vapor by eddies in the lower atmosphere: Journal of Meteorology, v. 8, no. 3, p. 135–145, https://doi.org/10.1175/1520-0469(1951)008%3C0135:TMOVTO%3E2.0.CO;2.

Tanner, B.D., and Greene, J.P., 1989, Measurement of sensible heat and water-vapor fluxes using eddy-correlation methods—Final report prepared for U.S. Army Dugway Proving Grounds—Dugway: Utah, U.S. Army, 17 p.

Thomas, H.E., 1954, First fourteen years of Lake Mead: U.S. Geological Survey Circular 346, 27 p., https://doi.org/10.3133/cir346.

Tighi, S., and Callejo, R., 2011, Lake Mead area and capacity tables: Bureau of Reclamation, Lower Colorado Region, Boulder Canyon Operations Office, River Operations Group report, 149 p., https://www.usbr.gov/lc/region/g4000/LM_AreaCapacityTables2009.pdf.

Turner, K., Rosen, M.R., Holdren, G.C., Goodbred, S.L., and Twichell, D.C., 2012, Environmental setting of Lake Mead National Recreation Area, chap. 2 *of* Rosen, M.R., Turner, K., Goodbred, S.L., and Miller, J.M., eds., 2012, A synthesis of aquatic science for management of Lakes Mead and Mohave: U.S. Geological Survey Circular 1381, 162 p., https://doi.org/10.3133/cir1381.

U.S. Department of Commerce, 1953, Wind patterns over lower Lake Mead: U.S. Department of Commerce, Weather Bureau, Hydrologic Services Division Technical Paper No. 22, 40 p., https://www.weather.gov/media/owp/oh/hdsc/docs/TP22.pdf.

U.S. Geological Survey, 1954, Water-loss investigations: Lake Hefner studies, technical report: U.S. Geological Survey Professional Paper 269, 158 p., https://doi.org/10.3133/pp269.

U.S. Geological Survey, 2021, National Water Information System: U.S. Geological Survey web interface, accessed January 20, 2021, at https://doi.org/10.5066/F7P55KJN.

Veley, R.J., and Moran, M.J., 2012, Evaluating lake stratification and temporal trends by using near-continuous water-quality data from automated profiling systems for water years 2005–09, Lake Mead, Arizona and Nevada: U.S. Geological Survey Scientific Investigations Report 2012–5080, 25 p., https://doi.org/10.3133/sir20125080.

Voichick, N., and Wright, S.A., 2007, Water-temperature data for the Colorado River and tributaries between Glen Canyon Dam and Spencer Canyon, northern Arizona, 1988–2005: U.S. Geological Survey Data Series 251, 28 p., https://doi.org/10.3133/ds251.

Webb, E.K., Pearman, G.I., and Leuning, R., 1980, Correction of flux measurements for density effects due to heat and water vapour transfer: Quarterly Journal of the Royal Meteorological Society, v. 106, no. 447, p. 85–100, https://doi.org/10.1002/qj.49710644707.

Westenburg, C.L., DeMeo, G.A., and Tanko, D.J., 2006, Evaporation from Lake Mead, Arizona and Nevada, 1997–99: U.S. Geological Survey Scientific Investigations Report 2006–5252, 24 p., https://doi.org/10.3133/sir20065252.

Wilson, K., Goldstein, A., Falge, E., Aubinet, M., Baldocchi, D., Berbigier, P., Bernhofer, C., Ceulemans, R., Dolman, H., Field, C., Grelle, A., Ibrom, A., Law, B., Kowalski, A., Meyers, T., Moncrieff, J., Monson, R., Oechel, W., Tenhunen, J., Valentini, R., and Verma, S., 2002, Energy balance closure at FLUXNET sites: Agricultural and Forest Meteorology, v. 113, no. 1–4, p. 223–243, https://doi.org/10.1016/S0168-1923(02)00109-0.

Wright, S.A., Anderson, C.R., and Voichick, N., 2009, A simplified water temperature model for the Colorado River below Glen Canyon Dam: River Research and Applications, v. 25, no. 6, p. 675–686, https://doi.org/10.1002/rra.1179.

For more information concerning the research in this report, contact the

Nevada Water Science Center
U.S. Geological Survey
2730 N. Deer Run Road
Carson City, Nevada 89701
https://www.usgs.gov/centers/nv-water

Publishing support provided by the U.S. Geological Survey
Science Publishing Network, Sacramento Publishing Service Center

ISSN 2331-1258 (online)
https://doi.org/10.3133/ofr20211022

Appendix C

Permits and Approvals

Appendix C-1

Waste Tire Collection Site Registration

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF WASTE PROGRAMS
SOLID WASTE UNIT
2005 NORTH CENTRAL AVENUE
PHOENIX, AZ 85004
602-257-2115

Rev 14 Nov 96

WASTE TIRE COLLECTION SITE REGISTRATION FORM

This form must be completed by the owner of a waste tire collection site (WTCS). The completed form must be submitted to the Arizona Department of Environmental Quality (ADEQ), at the above referenced address, by March 28, 1991. A separate form must be submitted for each WTCS.

A WTCS is defined as "a site where waste tires are collected before being offered for recycling or reuse and where more than five hundred (500) tires are kept on site in any one day".

A waste tire is defined as "a tire that is no longer suitable for its original purpose because of wear, damage or defect".

1. a. WTCS Name: Mohave Valley Landfill

   b. WCTS Location:
   Street Address: East End of El Rodeo Road

   City: Bullhead City County: Mohave Zip Code 86442

   (Enclose map with directions to site if the WTCS does not have a street address)

   c. Section 21 Township 19N Range 21W

   d. County Assessor Tax Roll: Book 221 Map 33

   Parcel No. 10

   e. Zoning Classification: AR

   f. WTCS Telephone Number: 520-758-0000

   g. Name of WTCS Owner: Mohave County

   h. Address of WTCS Owner: 3675 E Andy Devine Avenue, Suite C

   City Kingman State Arizona Zip Code 86401

WTCS Registration Form

I. Telephone No. of WTCS Owner: 520-757-0910

Attach the following documentation if the owner is:

* A Corporation - "Articles of Incorporation"
* A Limited Partnership - "Certificate of Limited Partnership"
* Doing Business under another name - "Certificate of Fictious Name"

j. Name of WTCS Operator: Mesa Disposal, Inc

k. Address of WTCS Operator: 967 Hancock Road, Suite 141

City Bullhead City State Arizona Zip Code 86442

l. Telephone Number of Operator: 520-758-0000

2. a. Name of Property (Land) Owner: Mohave County

b. Address of Property (Land) Owner: 3675 E Andy Devine Avenue, Suite C

City Kingman State Arizona Zip Code 86401

c. Telephone Number of Land Owner 520-757-0910

3. DESCRIPTION OF WTCS:

a) Average number of tires stored at site 100 tons per month

b) Maximum number of tires anticipated for storage at site: 2500 tons

c) How are tires stored:

* Stacked in rows_____
* Dumped in piles X

d) Are fire breaks provided:

* Between tire storage area and property line Yes/No Yes
  * How many feet 50+
* Between rows Yes/No_____ How many feet_____
* Between tire piles Y Y N_____ How many feet 20 min

e) Size of WTCS in square feet 360.000 or acres 8.26

f) Is there a fire prevention plan Yes/No Yes

g) Is there a fire fighting plan Yes/No Yes

WTCS Registration Form

h) Specifically, what fire fighting equipment is at the site ?
Fire Extinguishers Water Truck Bulldozers Front Loader

i) Is chipping, shredding or other processing done at WTCS ? Yes

j) Planned final disposition of tires RFP for Removal & Recycle/Disposal

ADEQ requires the owner , the managing partner, or corporate officer or the corporation's statutory agent to sign t following certification statement.

I certify under penalty of law to the best of my knowledge and belief that the above information is true, accurate and correct.

MOHAVE COUNTY:

Signature Michael P Hamel Date Nov 19, 1996

Title Asst. Public Works Director

MESA DISPOSAL:

Signature John P Quigley Date 14 Nov 96

Title PRESIDENT

CHECKLIST

X Map Enclosed
_____ Ownership Papers Enclosed

BA:md
REVISED: March 22, 1991

Appendix C-2

Solid Waste Facility Plan Approval

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Governor Jane Dee Hull Russell F. Rhoades, Director

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
APR 27 1998
LIBRARY

965014.02 (Ph. 1)
MVLF PROJ. MGMT

April 22, 1998
REF: PRU98-247

Mr. Richard A. Skalicky, P.E.
Public Works Director
County of Mohave
3675 E. Andy Devine Avenue, Suite C
Kingman, Arizona 86401-7000

RE: Solid Waste Facility Plan Approval No. 08004600
Mohave Valley Sanitary Landfill, Mohave County

Dear Mr. Skalicky:

The Arizona Department of Environmental Quality's (ADEQ) Solid Waste Plan Review Unit (PRU) has reviewed the solid waste facility plan application and responses to the technical review comments for Mohave Valley Sanitary Landfill. ADEQ has completed the technical review of the application and approves the permit application.

Enclosed are two copies of the Municipal Solid Waste Facility Plan (SWFP) Approval, Number 08004600, for the Mohave Valley Sanitary Landfill, Mohave County. The Groundwater Quality Protection Permit (G-0038-08) for the Mohave Valley Sanitary Landfill was approved by the Arizona Department of Environmental Quality's (Department) Office of Water Quality on April 12, 1988, and shall be superseded by this Solid Waste Facility Plan approval.

This ADEQ approval shall become effective on the date of the Waste Programs Division Director's signature, and shall be valid for the life of the facility (operational, closure and post-closure periods) provided that the facility is constructed, operated, and maintained pursuant to all of the conditions of the SWFP. Please read the enclosed approval carefully and review the statutes and rules. If you agree with the conditions, please sign and date both copies and return to the Solid Waste Plan Review Unit within 10 days of receipt, Attn: Gregory H. Brown, P.E., Arizona Department of Environmental Quality, 3033 North Central Avenue, Phoenix, Arizona 85012. The SWFP will be officially approved after both copies are signed by you and the ADEQ Waste Programs Division Director.

Following signature of the SWFP, Mohave County will be issued a final itemized bill for the review

of the solid waste facility plan at the rate of $38.30 per hour, less the $5,936 initial fee. Mohave County will be billed for the costs that exceed the initial fee, or will be refunded the difference if the review is less than the initial fee.

If you have any questions, or would like to schedule a meeting to discuss this letter, please call me at (602) 207-4581 or toll free in Arizona at 1-800-234-5677, extension 4581. Your response letters may be addressed to me.

Sincerely,

Gregory H. Brown, P.E.
Solid Waste Plan Review Unit
Waste Programs Division

Enclosures (2)

cc (w/o enclosures): Byron James, Solid Waste Section
Dave Phillips, Plan Review Unit
Nicole Heffington, Plan Review Unit
Steve Tighe, Plan Review Unit
Evan Nikirk, Vector Engineering, Inc.
John P. Mieding, Mesa Disposal, Inc.
Facility File

Appendix C-3

2020 Solid Waste Facility Permit

ARIZONA DEPARTMENT
OF
ENVIRONMENTAL QUALITY

Douglas A. Ducey
Governor

Misael Cabrera
Director

March 09, 2020
REF: PRU 20-125

Cullin Pattillo, Environmental Engineering Manager
Mohave County Development Services Department
Division of Environmental Quality
P.O. Box 7000
3250 E. Kino Avenue
Kingman, Arizona 86402-7000

Re: Approval of Type III Permit Modification Application
MFPA No. 08004600.04; License Time Frames No. 80374; Place ID No. 832
Mohave Valley Landfill; Mohave County, Arizona

Dear Mr. Pattillo:

The Arizona Department of Environmental Quality (ADEQ) reviewed the application for a Type III Modification to Solid Waste Master Facility Plan Approval (MFPA), to include identifying and inspecting loads of unapproved materials as listed in Section 2.2(b) of MFPA. The Type III modification application, dated January 24, 2020, was received on January 29, 2020.

Based on the review, ADEQ has approved the Type III Change and has issued the enclosed Master Facility Plan Approval Number 08004600.04. A copy of this approval must be placed in the Mohave Valley Landfill operating record.

If you have any questions regarding this letter, please contact me at (602) 771 - 4136 or email arjmandi.masoud@azdeq.gov.

Sincerely,

Masoud Arjmandi
Solid Waste Unit

Enclosure: Master Facility Plan Approval No. 08004600.04

cc: Will Puntenney, Republic Services, Inc.
Michelle Ogburn, Solid Waste Unit Manager
Facility file

MASTER FACILITY PLAN APPROVAL

MUNICIPAL SOLID WASTE LANDFILL
MASTER FACILITY PLAN APPROVAL NUMBER 08004600.04 (LTF # 80374)

1.0 Facility Information and Approval Signature

In accordance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter

Facility Name: Mohave Valley Landfill (MVL)
3999 E. El Rodeo Road
Fort Mohave, Arizona 86426

Permittee as Owner: Mohave County
Public Works Department
PO Box 7000
Kingman, Arizona 86402-7000

Permittee as Operator: Republic Services, Inc., DBA Mesa Disposal, Inc.
18500 North Allied Way
Phoenix, Arizona 85054

Operator Contact/ Address: 967 Hancock Road, Suite 141
Bullhead City, Arizona 86442

is authorized to operate with all approvals granted under 40 CFR Part 258, and not previously amended or revoked, since the original Solid Waste Facility Plan Approval on May 13, 1998, and specifically described in the Master Facility Plan Approval that follows. The Mohave Valley Landfill is located at 3999 E. El Rodeo Road, Fort Mohave, Arizona, in the NE ¼ of Section 21, Township 19 North, Range 21 West, Gila and Salt River Base Line and Meridian.

Latitude: 35° 01' 28" North
Longitude: 114° 31' 00" West

This Master Facility Plan Approval shall be deemed effective on the date of the Waste Programs Division Director's signature below, provided that the facility is operated and maintained in accordance with all the conditions described in the remainder of this approval document.

Approved on behalf of the Arizona Department of Environmental Quality:

Laura Malone

Laura Malone, Director
Waste Programs Division

Signed this 9th day of March, 2020

1.1 Approval

This Municipal Solid Waste Landfill (MSWLF) Master Facility Plan Approval (MFPA) incorporates a procedure to identify and inspect loads of unapproved materials as listed in Section 2.2(b) of this Mohave Valley Landfill MFPA in accordance with Section 3.4 of this MFPA, as detailed in the Solid *Waste Facility Plan - Type III Amendment*, dated January 24, 2020, prepared by Mohave Valley Landfill.

1.2 Previously approved Type III Change, Alternative Daily Cover (December 30, 2015)

The approval incorporated a Type III change that allowed Mohave Valley Landfill (MVL) to use an alternative daily cover (ADC) in accordance with the *Solid Waste Facility Plan Type III Modification at the Mohave Valley Landfill, Fort Mohave, Arizona* (SWFP) prepared by Geo-Logic Associates, dated September 29, 2015, and revised December 30, 2015.

MVL began operating in January 1989; this MFPA allows Mesa Disposal, Inc. (MDI) to continue to operate MVL at the location described in Part 1.0 of this approval. The approved MVL waste footprint is unlined and occupies 110.8 acres of the 159.9-acre facility. The other 49.1 acres are utilized for access roads, drainage control systems, septage ponds and soil stockpiles.

2.0 STATUTORY PROVISIONS

MDI shall not operate MVL in a manner inconsistent with the SWFP and subsequent amendments pursuant to A.R.S. § 49-791(A)(5).

2.1 General Provisions

a. This MFPA, issued pursuant to A.R.S. §49-762, § 762.03, § 762.04, § 762.06 and § 857, grants permission to operate a municipal solid waste landfill as defined in A.R.S. § 49-701(20) at the location referenced in Part 1.0. Federal regulations governing the design and operation of landfills, codified in 40 CFR § 258, are also applicable to this approval pursuant to A.R.S. § 49-761(B). This approval is granted under the conditions listed herein to protect human health and the environment.

b. This MFPA does not relieve MDI of its responsibility to comply with federal, state, county or local requirements or ordinances adopted under A.R.S. §49-704 and shall not be construed as permission to create a public health hazard, environmental nuisance or cause contamination to the environment.

c. Specific words related to landfill design, construction, operations, etc., used throughout this MFPA have the same meaning as defined in 40 CFR § 258, Subpart A, Arizona Administrative Code (A.A.C.) R18-13-701, A.A.C. R18-13-1301, A.A.C. R18-13-1401, or A.R.S.§§ 49-701 and 701.01 unless otherwise defined.

d. Design, construction, operation, and monitoring conditions listed in this MFPA have the same meaning as referenced in either 40 CFR § 258; A.A.C. Title 18, Chapter 13; or A.R.S. Title 49, unless otherwise specified.

e. All previously approved modifications to the original MVL SWFP approval remain in effect.

2.2 General Limitations

a. This MFPA is applied to the landfill elements and facility structures as set forth in the SWFP, the existing landfill elements and structures as of the date of this approval, and components that have already received ADEQ approval prior to this MFPA. Any additions to the approved facility structures and any modification to the approved facility operations plan, closure and post-closure care, corrective action and monitoring plans shall require prior approval by ADEQ pursuant to A.R.S. § 49-762.06.

b. MVL is not permitted to accept the following:

1. Hazardous waste as defined in 40 CFR Part 261 and A.R.S. § 49-921, except for household hazardous waste (A.R.S. § 49-701(13)) and conditionally exempt small quantity generator waste.

2. Friable asbestos containing material as defined in 40 CFR § 61.141 and non-friable asbestos containing material.

3. Motor vehicle bodies and waste from shredding motor vehicles as set forth in the statutory list of special wastes per A.R.S. § 49-852(A)(2).

4. Petroleum contaminated soil (PCS) as defined in A.R.S. 49-851(A)(3), including PCS and solid waste PCS as defined in A.A.C. R18-13-1601(8) and R18-13-1601(13), respectively.

5. Waste that contains radioactive materials subject to the Atomic Energy Act of 1954 (42 United States Code §§ 2011 through 2297, 68 Stat. 919) or Title 30, Chapter 4, as defined in A.R.S. § 49-701.01(A)(4).

6. Industrial process waste (liquid and solid), as described in 40 CFR § 258.2.

7. Bulk or non-containerized liquid waste as defined in 40 CFR § 258.28.

8. Biohazardous medical waste defined in A.A.C. R18-13-1401(5), except for household generated biohazardous medical waste as set forth in A.A.C. R18-13-1403(A)(4).

9. Polychlorinated biphenyl (PCB) waste as defined in 40 CFR Part 761.

10. Whole tires

11. Lead acid batteries

12. Used oil as defined in 40 CFR Part 279

13. Any other waste prohibited by federal or State of Arizona statute or regulation from disposal at any municipal solid waste landfill.

2.3 Notifications

a. The MVL shall submit a notification of any Type II, III, or IV changes to the approved solid waste facility plan in accordance with A.R.S. § 49-762.06. The MVL shall not implement any Type III or IV changes prior to ADEQ approval.

b. The following notifications are required if there is a methane gas exceedance:

1. Within 24 hours of any methane gas exceedance where the gas concentration in facility structures exceeds 25% of the lower explosive limit or gas levels at the landfill boundary exceed the lower explosive limit, MDI shall notify ADEQ.

2. Within seven (7) days of detection, MDI shall place in the operating record a description of the steps taken to protect human health. A copy of this description shall be sent to the ADEQ Solid Waste Plan Review Unit.

3. Within 60 days of detection of any methane gas exceedance, a remediation plan shall be implemented and a copy of the plan placed in the operating record. A copy of the plan, accompanied by a notification that the plan has been implemented, shall be sent to ADEQ in accordance with 40 CFR § 258.23.

2.4 Precautionary Provisions

a. ADEQ reserves the right to issue administrative orders pursuant to A.R.S. § 49-781 and 862 or to seek other legal remedies as provided by law if the MVL creates a public health hazard, safety hazard, or environmental nuisance, if violation of State law occurs, or if the MVL is in violation of the MFPA.

b. For the purposes of A.R.S. §§ 49-764 and 866, ADEQ considers issuance of this document as certification of all pollution control devices, machinery, or equipment described in the SWFP which are necessary for collection and control at the source of any pollutants.

c. ADEQ reserves the right to conduct inspections of MVL pursuant to A.A.C. R18-13-304, A.R.S. §§ 49-763, 860 and 865. During the inspection, the ADEQ inspector

may take photographs of activities, take samples, and/or conduct other recognized monitoring activities.

d. Pursuant to A.R.S. § 49-782(A), ADEQ reserves the right to suspend, amend, withdraw, condition, or revoke this MFPA if it is determined that the facility is in violation of A.R.S. Title 49, Chapter 4, or any rule adopted thereunder.

2.5 Financial Assurance

a. MVL shall continue to meet closure and post-closure care financial assurance requirements as per A.R.S. § 49-770 and 40 CFR 258, Subpart G until released by notification from ADEQ.

b. The cost estimate for landfill closure and post-closure care shall be updated annually:

1. By a new cost estimate sealed by an Arizona registered professional engineer; or

2. If no changes have occurred since the preceding year's submittal, by use of an approved or demonstrated inflation factor that modifies the existing cost estimates.

c. Landfill cost estimates for closure and post-closure care shall be updated whenever a Type III or Type IV change to the solid waste facility will result in an increase in either closure or post-closure costs.

3.0 OPERATIONAL APPROVALS AND CONDITIONS

3.1 Approval of the Facility Plan

This MFPA, issued pursuant to A.R.S. §§ 49-762, 762.03, 762.04, 762.06 and 857, grants permission to operate MVL as set forth in the SWFP.

a. The following wastes may be accepted at the MVL facility:

1. Household waste and commercial solid waste as defined in 40 CFR § 258.2, including solid waste from industrial facilities that does not directly result from an industrial process.

2. Construction debris and demolition debris as defined in A.R.S. §§ 49-701(5) and 49-701(7), respectively.

3. Vegetative (green) waste as defined in A.R.S. § 49-701(36).

4. Household appliances (white goods); however, prior to disposal, CFC-containing appliances must conform to the requirements of 40 CFR 82 Subparts E and F.

5. Inert materials as defined in A.R.S. § 49-701(15).

6. Animal carcasses, except those that meet the definition of biohazardous medical waste in A.A.C. R18-13-1401(5)(e). All animal carcasses shall be covered immediately.

7. Dried sewage sludge from wastewater treatment plants (WWTPs).

8. Septage for disposal into permitted septage ponds.

9. RCRA-empty (triple-rinsed) containers as defined in 40 CFR § 261.7.

3.2 Approved Alternative Daily Cover (ADC)

This MFPA grants permission to apply ADC at MVL. The following conditions shall govern all ADC use at MVL:

a. Earthen material will be stored for use each day an ADC is used. Should the application of any ADC become impracticable or contribute to conditions hazardous to public health, safety, or the environment, then MVL shall terminate such use and revert to using compacted earthen material or other approved ADC (when applicable).

b. MDI shall place compacted earthen material over the entire working face at the end of any operating day preceding a period of time when the facility is closed for more than twenty-four (24) hours.

c. All waste-derived materials used as ADC shall be subject to solid waste landfill disposal fees.

d. A minimum of one (1) day stockpile of earthen cover material and required equipment shall be available to ensure a corrective response to any violation of performance of any ADC.

e. The Operations Manager will be responsible for observation of ADC performance and verification that the material meets the performance criteria for daily cover. MDI will document in the facility's daily log any non-performance each day the performance of VW does not meet the minimum criteria of daily cover.

f. The following is approved landfill ADC:

1. Vegetative Waste (VW), as defined in A.R.S. §49-701(36) (approved on March 8, 2016):
   i. The area to be covered with VW applies only to the working face of the landfill;

   ii. Large trunks or branches will be excluded and be immediately landfilled;

   iii. VW will pass through a 5-inch equivalent debris screen and will be compacted to a minimum thickness of six (6) inches;

   iv. If VW is exposed for longer than seven days it will be wetted with water as necessary to ensure that the material is maintained at an adequate moisture content. VW that may become dry enough to carry a fire will immediately be landfilled;

   v. VW will be stockpiled by the working face only for not more than fourteen (14) days;

   vi. VW will not be used as ADC during times of high winds (greater than or equal to 35 miles per hour);

   vii. VW that is received, which is contaminated with refuse will be evaluated by MDI. If the VW cannot be used as an ADC due to refuse/contamination content, the VW will be immediately landfilled;

3.3 Operational Provisions

Pursuant to A.R.S. Title 49, Chapter 4, Article 4, ADEQ requires that MDI must:

a. Operate MVL in a manner that protects public health and safety and the environment and prevents and abates environmental nuisances.

b. Control wind dispersion and other surface dispersions of the landfill materials so that they do not create a public nuisance or pose an imminent and substantial endangerment to public health or the environment. Visible materials that have dispersed beyond the boundaries of the current work face shall be collected on a regular basis.

c. Cover disposed solid waste with six (6) inches of earthen material at the end of each operating day to control vectors, fires, odors, blowing litter, and scavenging.

d. Prevent or control on-site populations of disease vectors using techniques appropriate for the protection of human health and the environment.

e. Ensure that the concentration of methane gas generated by the facility does not exceed 25 percent of the lower explosive limit for methane in facility structures and the lower explosive limit at the property boundary.

f. Ensure that the landfill units do not violate any applicable requirements developed under a State Implementation Plan approved by the EPA Administrator pursuant to section 110 of the Clean Air Act, as amended.

g. Control public access and prevent unauthorized vehicular traffic and illegal dumping of wastes by using artificial barriers, natural barriers, or both, as appropriate.

h. Ensure that there is no discharge of pollutants into the waters of the United States from the landfill.

i. Ensure that bulk or non-containerized liquids are not placed in the landfill.

j. Record and retain in a daily operating record for the following items:

1. Any location restriction demonstrations required under 40 CFR § 258, Subpart B.

2. Random inspection, training and notification documentation required by 40 CFR § 258.20.

3. Gas monitoring results and any remediation plans required by 40 CFR § 258.23.

4. Closure and post-closure care plans and monitoring, testing and/or analytical data as required by 40 CFR §§ 258.60 and 258.61.

5. Financial assurance documentation required by 40 CFR § 258, Subpart G.

3.4 Excluding the Receipt of Unauthorized Waste

Pursuant to 40 CFR § 258.20, the Permittee must implement a program at the facility for detecting and preventing the disposal of regulated hazardous waste as defined in 40 CFR Part 261, unacceptable PCB wastes as defined in 40 CFR Part 761, and unpermitted wastes. This program must include at a minimum:

a. Random inspections of incoming loads to ensure that loads do not contain unapproved materials as listed in Section 2.2(b) of this MFPA. At the minimum rate of formal inspection of all incoming vehicles is at least one load per business day, or at least two percent of all incoming vehicles per week whichever is more. Random load inspections shall be documented in the facility operating record.

b. Records of any inspections.

c. Training of facility personnel to recognize regulated hazardous waste, unacceptable PCB wastes, and unpermitted/unacceptable wastes.

d. Notification of the ADEQ Solid Waste Unit if a regulated hazardous waste, unacceptable PCB wastes, or unpermitted/unacceptable wastes is discovered at the facility.

e. Reviewing all industrial and commercial process waste streams prior to acceptance (pre-screening) to ensure proper management and exclude the acceptance of hazardous wastes, unacceptable PCBs, and unpermitted/unacceptable wastes.

3.5 Stormwater Management

a. The proper control of surface water drainage shall be implemented to prevent stormwater from running onto the active portion of the landfill. Any soil erosion of the landfill cover or ponding of stormwater on the landfill must be corrected to ensure proper coverage of waste and stormwater management in the landfill area pursuant to 40 CFR § 258.26.

b. The drainage diversion system must be capable of diverting surface water run-on and run-off resulting from a rainfall event equal to a 24-hour, 25-year storm away from the active landfill areas in accordance with 40 CFR § 258.26.

c. MVL units shall not cause the discharge of pollutants into waters of the United States.

d. All surface water collection systems shall be constructed to resist the maximum horizontal acceleration in lithified earth at this site.

3.6 Groundwater Monitoring

A suspension of groundwater monitoring and composite liner requirements was granted by ADEQ on January 9, 1997, based on demonstrations provided in accordance with 40 CFR §§ 258.50(b) and 258.40(a)(1), respectively. An updated hydrogeologic evaluation for MVL was provided in the *Groundwater Supply Evaluation, Mohave Landfill, Arizona*, dated March 23, 2011, and the *Test Boring Results, Mohave Valley Landfill, Arizona*, dated June 8, 2011, prepared by Civil & Environmental Consultants, Inc. The lack of groundwater at the facility was confirmed by a test well drilled to a depth of 640 feet near the entrance of MVL on June 3, 2011.

3.7 New Construction

a. All future construction will follow ADEQ approved designs, drawings and specifications.

b. Pursuant to A.R.S. § 49-762.06, MDI shall submit a notification to ADEQ of any Type II, III, or IV change to the approved solid waste facility plan. Type III and IV changes require prior ADEQ approval before implementation.

c. The configuration of the final landfill slopes and elevations shall be consistent with the plans that are part of this approval.

3.8 Safety Issues

a. Access: MDI must limit and control public access, unauthorized vehicular traffic, and illegal dumping of wastes by using natural barriers, artificial barriers, or both, as appropriate, to protect human health and the environment pursuant to 40 CFR § 258.25.

b. Scavenging: No material can be removed or scavenged from the working face except to remove unauthorized waste materials identified after disposal.

c. Working face: The size of the working face must be limited to the smallest possible area to provide easy manageability, ensure vehicle and public safety and minimize public health nuisances.

d. Landfill gas: MDI must ensure the concentration of methane gas does not exceed:

1. 25% of the LEL for gases in facility structures, and

2. The LEL for gases at the property boundary.

3.9 Landfill Gas Monitoring

a. MDI shall continue its routine methane monitoring program to ensure that the standards of § 258.23 (a) are met. Five (5) landfill gas monitoring probes, V-1 through V-5, are currently installed around the perimeter of the facility and monitor landfill gas at three (3) depths, 10-20 ft below ground surface (bgs), 30-40 ft bgs, and 50-60 ft bgs. Routine methane monitoring shall be designed to include monitoring at:

1. Facility structures (excluding gas control or recovery systems); and

2. Facility property boundaries.

b. Routine methane monitoring must be conducted at least quarterly based on the requirements of 40 CFR § 258.23(b)(2) and may be changed by the Director after a reported landfill gas exceedance.

c. Pursuant to 40 CFR § 258.23, if a methane gas exceedance occurs at facility structures or at the facility property boundaries, MDI shall immediately take all necessary steps, as specified in Section 2.3(b), to ensure protection of human health and the environment.

d. Maintenance of gas monitoring equipment after landfill closure shall be performed as specified in Section 4.3 of this MFPA.

3.10 Recordkeeping

a. Landfill gas exceedances must be reported in accordance with 40 CFR § 258.23.

b. MDI shall comply with all other recordkeeping requirements pursuant to 40 CFR § 258.29 for at least three (3) years from the date of occurrence. These records shall be available for ADEQ personnel upon request.

c. MDI shall submit a summary of all Type II change modifications to ADEQ annually, by March 31, for the preceding calendar year.

d. MDI shall maintain any Type I change records in the facility file for a minimum of three (3) years from the date of occurrence in accordance with A.R.S. § 49-762.06(A)(1). These records shall be available to ADEQ personnel upon request. Additional operational records such as landfill fire, visual settlement or subsidence, explosions, discharge of hazardous or other wastes not permitted at the landfill facility, flood damage or erosion shall be placed in a file that is retained on-site.

e. MDI shall maintain a Record Keeping Log for ADC, to be completed each morning ADC is determined to not meet the performance standard of ADC.

3.11 Annual Registration and Disposal Fee Schedules:

a. MDI shall comply with A.R.S. § 49-747 and A.A.C. R18-13-2101 through 2103 and shall pay an annual registration fee for MVL to ADEQ.

b. MDI shall comply with A.R.S. § 49-836 and pay solid waste landfill disposal fees to ADEQ based on the amount of the waste landfilled at MVL.

4.0 CLOSURE AND POST-CLOSURE PROVISIONS

4.1 Final Closure

The following steps will occur during the landfill closure process:

a. In accordance with 40 CFR § 258.60(e), Mohave County must notify ADEQ of the intent to close the landfill.

b. In accordance with 40 CFR § 258.60(g), closure activities for MVL must:

1. Begin no later than thirty (30) days after the date on which MVL receives its known last receipt of waste or if the landfill has remaining capacity and there is a reasonable likelihood that MVL will receive additional waste, no later than one (1) year after the most recent receipt of waste.

2. Follow the approved closure plan that is part of the SWFP.

c. Closure activities must be completed within one hundred eighty (180) days following the beginning of closure as specified in paragraph (b) above.

d. Following closure construction, Mohave County shall notify ADEQ through a certification document, signed and sealed by an independent Arizona registered professional engineer, that the closure has been completed in accordance with the approved MVL closure plan and this MFPA.

e. Upon approval of the closure certification report by ADEQ, a letter will be issued notifying MDI and Mohave County that MVL is officially closed and released from future annual registration fees and operational financial assurance.

4.2 Final Cover Construction

a. The landfill final cover shall be consistent with the prescriptive design requirements in 40 CFR § 258.60(a)(1) through (3), and be constructed as follows (from bottom to top):

1. 18-inch infiltration barrier layer with a permeability no greater than 1×10^{-5} centimeters per second; and

2. 6-inch erosion layer capable of sustaining native plant growth.

b. The top deck of the landfill shall be graded at 3% to ensure proper drainage, and the side slopes shall be graded at a maximum 3:1 (horizontal:vertical).

c. Any changes to the approved final cover system shall be approved in writing by ADEQ prior to implementation of the changes.

4.3 Post-Closure Care

Post-closure care shall be provided at MVL for 30 years from the date of final closure acknowledgment by ADEQ under 40 CFR § 258.61(b) and shall consist of:

a. Maintaining the integrity and effectiveness of any final cover, including making repairs to the cover as necessary to correct the effects of differential settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding or otherwise damaging the final cover.

b. Maintaining and operating the landfill gas collection and monitoring system in accordance with the requirements of 40 CFR § 258.23 and 40 CFR § 258, Subpart F.

c. Maintaining in good repair all stormwater control structures, internal roads, signs, fences, and any other structures required for monitoring activities and post-closure care of the closed landfill facility.

4.4 Post-Closure Financial Assurance

Yearly financial assurance demonstrations for the 30 years of post-closure care, as required by Section 2.5 of this MFPA, will continue until Mohave County is notified by ADEQ that it is released from this requirement.

5.0 APPROVAL HISTORY

04/12/1988	Groundwater Quality Protection Permit
01/09/1997	Suspension of groundwater monitoring and composite liner requirements
02/07/1997	Battery collection site
02/07/1997	Waste tire collection site
05/13/1998	Solid Waste Facility Plan Approval No. 08004600.00
07/21/1998	Type III Change for methane remediation plan
08/24/1998	Aquifer Protection Permit (APP) No. P-100330.00 for septage ponds
11/19/2004	MFPA No. 08004600.01, incorporating previous approvals and minor revisions
08/24/2011	MFPA No. 08004600.02, Type IV Change incorporating a 20-foot vertical expansion, revisions to the excavation grading and a reduction of the approved waste footprint of the landfill to 110.8 acres
03/08/2016	MFPA No. 08004600.03, Type III Change for use of VW as ADC
02/05/2020	MFPA No. 08004600.04, Type III Change for Identifying and Inspection Loads of Unapproved Material

6.0 REFERENCES

Dec. 1996 *Request for a Suspension of Ground Water Monitoring and Composite Liner Requirements at the Mohave Valley Landfill, Mohave County, Arizona*, by Vector Engineering, Inc.

03/28/1997 *Solid Waste Facilities Plan for the Mohave Valley Sanitary Landfill, Mohave County, Arizona*, by Vector Engineering, Inc.

09/11/1997 *Addendum to the Application for an Aquifer Protection Permit to Operate the Non-hazardous Liquid Waste Impoundments and Waste Tire Monofills at the Mohave Valley Sanitary Landfill, Mohave County, Arizona*, by Vector Engineering, Inc.

09/15/1997 *Addendum to the Application to Permit, Construct, and Operate a Lateral Expansion at the Mohave Valley Landfill, Mohave County, Arizona*, by Vector Engineering, Inc.

June 2010 *Solid Waste Facilities Plan for the Mohave Valley Landfill*, Vector Engineering, Inc. (revised January 2011)

03/23/2011 *Groundwater Supply Evaluation, Mohave Landfill, Arizona* (Technical Memorandum added to Appendix K of SWFP), by Civil & Environmental Consultants, Inc. (CEC)

06/08/2011 *Test Boring Results, Mohave Valley Landfill, Arizona* (Technical Memorandum added to Appendix K of SWFP), by CEC

10/27/2015 *Application for Type III Change to MFPA* ("Type III Permit Modification") for Mohave Valley Landfill (MVL), Republic Services, Inc.

12/30/2015 *Responses to Application Deficiencies Regarding the Solid Waste Facility Plan Type III Permit Modification at the Mohave Valley Landfill, Fort Mohave, AZ*, Geo-Logic Associates.

1/24/2020 *Solid Waste Facility Plan – Type III Amendment, Mohave Valley Landfill, Fort Mohave, AZ*

End of Master Facility Plan Approval No. 08004600.04

Appendix C-4

Battery Collection Site Registration and Approval

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

BATTERY COLLECTION/RECYCLING FACILITY AUTHORIZATION

Issued to: **Mohave Valley Municipal Solid Waste Landfill (MSWLF)**

At the location of: **3999 El Rodeo Road, Mohave Valley, AZ 86449**

To be used for the collection and/or recycling of lead acid batteries pursuant to the Arizona Revised Statute §44-1322.

This authorization will be valid until the expiration date as noted below and/or as long as the facility is used for the purposes indicated above, and is maintained and operated in a satisfactory manner. This license is not transferable from person to person or facility to facility.

ROBIN A. THOMAS, MANAGER
PERMITS SECTION

NUMBER: 131

ISSUED: December 13, 2005

EXPIRES: January 1, 2011

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Fife Symington, Governor Russell F. Rhoades, Director

February 10, 1997
REF: ICU97-081

John P. Mieding, General Manager
Mesa Disposal, Inc.
967 Hancock Road, Suite 141
Bullhead City, Arizona 86442

RE: Mesa Disposal, Inc. Battery Collection/Recycling Facility Authorization for the Mohave Valley Municipal Solid Waste Landfill

Dear Mr. Mieding:

The Arizona Department of Environmental Quality (ADEQ), Solid Waste Inspections and Compliance Unit, received a submittal requesting authorization for the operation of a battery collection/recycling facility at the Mohave Valley Landfill. Enclosed, please find a certificate which authorizes the collection/recycling of batteries through March 1, 2002, at the facility. Mesa Disposal, Inc. should ensure that the facility is operated in a manner consistent with operation procedures as submitted to ADEQ on November 21, 1996.

If any questions arise as a result of this letter, please call me at (602) 207-4680.

Sincerely,

Joseph Giudice, Environmental Program Specialist
Solid Waste Inspections and Compliance Unit

cc: Michael Hendrix, P.E., Assistant Public Works Director, Mohave County
Facility File

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

BATTERY COLLECTION/RECYCLING FACILITY AUTHORIZATION

Issued to: **Mesa Disposal, Inc.**

At the location of: Mohave Valley Municipal Solid Waste Landfill, 4.4 miles west of AZ-95 on El Rodeo Road

To be used for the collection and/or recycling of lead acid batteries pursuant to the Arizona Revised Statute § 44-1322.

This authorization will be valid as long as the facility is used for the purposes indicated above, and is maintained and operated in a satisfactory manner. This license is not transferable from person to person or facility to facility.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DIRECTOR, WASTE PROGRAMS DIVISION

NUMBER 050

ISSUED 02/07/97

EXPIRES 03/01/02

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF WASTE PROGRAMS
SOLID WASTE UNIT
3033 NORTH CENTRAL AVENUE, 6TH FLOOR
PHOENIX, AZ 85012
(602) 207-4133

BATTERY COLLECTION/RECYCLING FACILITY AUTHORIZATION APPLICATION

This authorization form must be completed by the Owner/Operator of a lead acid battery collection facility (facility). The completed form must be submitted to the Arizona Department of Environmental Quality (ADEQ) at the above referenced address.

A lead acid battery is defined as "a battery with a core of elemental lead and a capacity of six or more volts which is suitable for use in a vehicle or boat".

A collection/transfer facility is defined as a facility or site other than a battery retailer or wholesaler where lead acid batteries are accepted, collected, and/or stored for future transportation to an authorized processing facility.

A recycling /reuse facility is defined as a facility or site other than a battery retailer or wholesaler where used lead acid batteries are reconditioned for resale.

A recycling /dismantling facility is defined as a facility or site other than a battery retailer or wholesaler where used lead acid batteries are dismantled.

(Please be advised that a separate application must be completed for each battery collection/recycling facility. Upon submittal all applications must be typed.)

FACILITY INFORMATION:

1) a. Facility Name: Mohave Valley Landfill

b. Facility Location: 4.5 Miles east of AZ Hwy 95 on El Rodeo Rd

Street Address: 4.5 Miles east of AZ Hwy 95 on El Rodeo Rd

City: Mohave Valley County: Mohave Zip Code: 86449

(Enclose map with directions to site, if the facility does not have an address)

c. Section: Township: 19 North Range: 21 West

d. County Assessor Tax Roll: Book: 221 Map: 33

Parcel No. 010

e. Zoning Classification: AR-10

f. Facility Telephone Number: Contact Via Two Way Radio

Battery Authorization Form

OWNER/OPERATOR:

2) a. Name of Facility Owner: Mohave County Public Works

b. Address of Facility Owner: P.O. Box 7000

City Kingman State Arizona Zip Code 86401

c. Telephone Number of Facility Owner: (520) 757-0910

Attach the following if the Owner is :

A Corporation - "Articles of Incorporation"
A Limited Partnership - "Certificate of Limited Partnership"
Doing business under another name - "Certificate of Fictitious Name"

d. Name of Facility Operator: Mesa Disposal

e. Address of Facility Operator: 967 Hancock Rd, Suite 141

City Bullhead City State Arizona Zip Code 86442

f. Telephone Number of Facility Operator: (520) 758-0000

PROPERTY OWNER:

3) a. Name of Property (Land) Owner: Mohave County Public Works

b. Address of Property (Land) Owner: P.O. Box 7000

City Kingman State Arizona Zip Code 86401

c. Telephone Number of Property (Land) Owner: (520) 757-0910

PURPOSE OF FACILITY:

4) a. Collection/Transfer Facility Yes

b. Recycling/Reuse Facility No

c. Recycling/Dismantling Facility No

FACILITY OPERATION:

5) a. Do you recharge batteries? Yes___ No X

b. Do you clean battery posts? Yes___ No X

c. Do you conduct any repairs? Yes___ No X

d. Do you resell the batteries? Yes___ No__X__

e. Do you recycle the batteries for lead content? Yes___ No__X__

f. Do you drain any acid prior to transport? Yes___ No__X__

6) a. Average number of batteries stored at this site__35__

b. Maximum number of batteries anticipated for storage at site__100__

c. What is the average time a battery remains at your facility?__15 Days__

Are your batteries stored in an upright position at all times?
Yes__X__No_____(If "No", why not?)_____

8) Explain how leaking batteries are handled. Explain how spills are cleaned up and how the disposal of spill residues is handled.__Leaking batteries are isolated and leakage is absorbed, then neutralized with baking soda and water, and allowed to dry. Remaining salt is removed to the landfill. Spills are handled in a like manner.__

9) Are the cells capped at all times? Yes_____No__X__(If "No", then explain why cells are not capped and the procedures for handling)

Occasionally batteries will arrive at the landfill without caps. No special handling is required as the batteries are stored upright on the pad

10) Are your batteries stored on a cement pad__Yes__, Pallet_____, or other type of structure _____(Describe other type of structure below)

11) a. Are your batteries stored inside or outside a building ?__Outside__ If outside, is the storage area protected from the rain ? Yes__X__No_____

b. Is the storage area fenced ? Yes_____No__X__

12) a. What types of safety equipment(i.e. eye wash) are available at the facility?

Eye wash and hand washing facilities, first aid, absorbent, baking soda, protective gloves, etc

b. Explain accident procedures utilized at the facility.

Battery Collection pad is located out of way of vehicle traffic; access is easily monitored by landfill personnel; See OP-005 for site emergency plan

TRANSPORTATION:

13) Do you transport your own batteries or hire a private company?

Neither; Our battery supplier or local automotive repair shop picks them up

Name of private trucking company, if applicable N/A

14) Are the batteries loaded or contained to prevent damage in transit? Yes X No

Briefly explain how batteries are contained.

Enclosed van is loaded to prevent damage and batteries from shifting.

Are other materials transported with the batteries? Yes_____ No X

If "Yes". : a) What are the materials shipped with the batteries?

b) Are they loaded to prevent contact with the damage to the batteries?

Yes_____ No_____Briefly explain how they are contained.

c) Are the materials which are transported with the batteries owned by the shipper or by another person?

Battery Authorization Form

Note: Battery transporters shall comply with all regulations enforced by the Arizona Department of Transportation (ADOT). All inquiries regarding the transportation of batteries should be directed to:

Address: The Arizona Department of Transportation
Division of Motor Vehicles/#530M
PO Box 2100
Phoenix, AZ 85001

Telephone: (602) 255-8133

FINAL DESTINATION:

16) From your collection facility, where are the used batteries transported?
(Please give name, address, and telephone number)

_____Permitted Secondary Lead Smelter

Name:_____

Address:_____

City:_____

State:_____Zip:_____

Telephone:_____

_____Battery Manufacturer

Name:_____

Address:_____

City:_____

State:_____Zip:_____

Telephone:_____

___X___Agent of a Battery Wholesaler

Name: Mid Valley Battery (Trojan Battery)

Address: 1940 Hwy 95

City: Bullhead City

State: Arizona Zip: 86442

Telephone: (520) 763-2586

_____Another Authorized Collection Site

Name:_____

Address:_____

City:_____

State:_____Zip:_____

Telephone:_____

_____Authorized Recycling Facility

Name:_____

Address:_____

City:_____

State:_____Zip:_____

Telephone:_____

Battery Authorization Form

CERTIFICATION STATEMENT:

ADEQ requires the owner, the managing partner, the corporate officer, or the corporation's statutory agent to sign the following certification statement:

I CERTIFY UNDER PENALTY OF LAW THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE INFORMATION ON MY BATTERY COLLECTION/RECYCLING FACILITY FORM IS TRUE AND ACCURATE, AND THAT THE BATTERIES ARE NOT TAKEN TO A LANDFILL, INCINERATOR, OR ANY OTHER UNLAWFUL DISPOSAL DESTINATIONS.

I FURTHER CERTIFY THAT THE USED BATTERIES ARE PROPERLY HANDLED AND TRANSPORTED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO STATE LAWS, RULES AND REGULATIONS.

OPERATOR SIGNATURE John P Mackey DATE 10 Nov 96

TITLE President

OWNER SIGNATURE Michael A Allen DATE Nov 19, 1996

TITLE Asst. Public Works Director

Within 45 days of receipt of this completed form, ADEQ will mail you, either your authorization form to operate a Battery Collection Facility or a letter explaining why your authorization was denied.

CHECKLIST

_____Ownership Papers Enclosed

DRZ:md
REVISED: June 30 1992

Appendix C-5

Flow Diversion Approval

MOHAVE COUNTY PUBLIC WORKS

3675 E. Andy Devine Avenue, Suite C
P.O. Box 7000 KINGMAN, ARIZONA 86402-7000
TELEPHONE (520) 757-0910 FAX (520) 757-0912 TDD 753-0726

Richard A. Skalicky, P.E. Director/County Engineer
M. P. Hendrix, P.E. Asst. Director
Asst. Co Engineer B. M. Elters, P.E
Flood Control K. Budhecha, P.E.
County Surveyor D. W. Walker, R.L.S.
Improvement Districts Z. Wright

March 26th, 1997

Evan Nikirk, P.E.
Project Manager
Vector Engineering, Inc.
1601 Fairview Avenue, Suite H
Carson City, NV 89701

Re: Mohave Valley Landfill Solid Waste Facility Plan

Dear Mr. Nikirk:

I have reviewed the proposed drainage diversion along the east boundary of the landfill site. As designed, the diversion does not appear will have any significant adverse impact on adjacent or downstream property. Further, once proper permits and approvals are obtained, I find this diversion acceptable and not to be in violation of Mohave County's Flood Control Ordinance.

In closing, I have no objection to this diversion project as designed and submitted in the Mohave Valley Landfill Facility Plan that will be dated March 28, 1997.

Sincerely

Richard A. Skalicky

Richard A. Skalicky, P.E.
Mohave County Floodplain Administrator

cc: File

Appendix C-6

Septage Evaporation Pond Aquifer Protection Permit (APP P-100330.02)

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Katie Hobbs
Governor

Karen Peters
Cabinet Executive Officer
Executive Deputy Director

Via email
November 21, 2023
PRU 23-312

Paul Baughman
Acting Environmental Quality Engineering Manager
3250 E Kino Avenue
Kingman, Arizona 86409

RE: Approval of Type Other Permit Modification and Issuance of the Permit
APP No. 100330; Place ID No. 832; LTF No. 99126
Mohave Valley Landfill Liquid Evaporation Ponds
3999 E. El Rodeo Road, Fort Mohave, Arizona 86426

Dear Mr. Baughman:

The Arizona Department of Environmental Quality (ADEQ) received an application for a Type Other Change to APP No. 100330. The permit modification application is to constructed and operate two (2) septage evaporation ponds at the Mohave Valley Landfill. The permit application was received by ADEQ Solid Waste Unit on June 7, 2023, and is prepared by SCS Engineers.

Based on the review, ADEQ has approved the Type Other change, and has issued the enclosed APP No. 100330. A copy of this approval must be placed in the Mohave Valley Landfill Liquid Evaporation Ponds operating record.

ADEQ's total permit fee for this permit modification is $2,928.00. Therefore, you will receive an invoice in the amount of $928.00 (2928-2,000).

If you have any questions regarding this letter, please contact me at (602) 771-4136, or email arjmandi.masoud@azdeq.gov.

Sincerely,

Arjmandi

Masoud Arjmandi
Environmental Engineer Specialist III

ec: Brandi Hall, Solid Waste Unit Manager
Michael Bradford, SCS Engineers
Facility file

Enclosure: APP No. 100330

AQUIFER PROTECTION PERMIT NO. P-100330.02 (Place ID 832, LTF # 99126)

MOHAVE VALLEY LANDFILL SEPTAGE EVAPORATION PONDS

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3; Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2; A A.C. Title 18, Chapter 11, Article 4; and amendments thereto; and the conditions set forth in this permit, Mohave Valley Landfill is hereby authorized to construct, maintain, and operate three (3) septic waste evaporation ponds at the Mohave Valley Landfill, a municipal solid waste landfill, located at 3999 El Rodeo Road, Fort Mohave, Arizona, over groundwater of the Mohave Valley basin in NE 1/4, Section 21, Township 19 North, Range 21 West of the Gila and Salt River Base Line and Meridian.

This permit becomes effective on the date of the Waste Program Division Director's signature and shall be valid for the life of the facility (operational, closure and post-closure care periods), unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate, and maintain the permitted facility:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below, or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant, and as determined at the applicable POC, occurs as a result of the discharge from the facility.

1.1 PERMITTEE INFORMATION

Facility Name: Mohave Valley Landfill Septage Evaporation Ponds
Facility Address: 3999 El Rodeo Road, Fort Mohave, Arizona 86426

Permittee as Owner: Mohave County Development Services Department
Division of Environmental Quality
PO Box 7000, Kingman, AZ 86402-7000

Permittee as Operator: Republic Services DBA Mesa Disposal, Inc.
2011 College Drive, Lake Havasu City, AZ 86403
Facility Contact: Mark Masterson, Phone number: (928) 846-0365

Latitude: 35º 01' 28" North **Longitude:** 114º 31' 00" West

1.2 AUTHORIZING SIGNATURE

DocuSigned by:
Julie Riemenschneider
FC6BE52F7A5B425...

Julie Riemenschneider, Director
Waste Programs Division
Arizona Department of Environmental Quality

Signed this 20 **day of** November**, 2023**

This Aquifer Protection Permit (APP) NO. P-100330.02 is issued to allow Mohave County to construct two new septage evaporation ponds (East Pond and West Pond) at the Mohave Valley landfill (MVL) facility. The permit amendment application was received by ADEQ Solid Waste Unit on June 7, 2023, and is prepared by SCS Engineers. In response to ADEQ review comments, a revised permit amendment application was supplied by the SCS Engineers on October 10, 2023.

The MVL is an approved Subtitle D regulated municipal solid waste landfill authorized to operate under *Municipal Solid Waste Landfill Master Facility Plan Approval Number 08004600.04 (MFPA).* The ADEQ-approved MVL waste footprint occupies approximately 111 acres of the entire 160-acre facility. The other 49 acres are utilized for access roads, drainage control systems, septage ponds, and soil stockpiles.

The two (2) septage evaporation ponds shall be located in the northwest corner of MVL. The average maximum daily volume of septage waste accepted at the MVL is 2,800 gallons per day (gpd) for each pond.

2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(A)(4), 49-241(A)]

This Aquifer Protection Permit (APP) allows Mohave County Development Services Department, Division of Environmental Quality (MCDSD) to construct, maintain, and operate (upon receiving construction certification approval as required in Sections 2.2.4 and 2.2.6) the two (2) evaporation ponds for the disposal of septic waste at the Mohave Valley Landfill (MVL). The septic waste evaporation ponds processes are detailed in the document *Permit Amendment Application for Septage Evaporation Ponds, Mohave Valley Landfill, Fort Mohave, Arizona, (PASEP)* dated October, 2023., and prepared by SCS Engineers.

Previously Approved:

The three (3) septage waste evaporation ponds, previously approved for use under the APP issued on October 22, 2015, shall be closed in accordance with the PASEP closure and post closure plan prior to construction of the two new East Pond and West Pond.

2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]

The site includes the following permitted discharging facility:

Facility	Latitude	Longitude
Septic Evaporation East Pond	N035° 01' 30.00"	W114° 31' 02.00"
Septic Evaporation West Pond	N035° 01' 30.00"	W114° 31' 05.00"

2.1.1 Annual Registration and Disposal Fees [A.R.S. §§ 49-242 and 49-836 and A.A.C. R18-14-104]

The annual registration fees for this permit are established by A.R.S. § 49-242 and are payable to ADEQ each year. The annual registration fee will be based on the total daily influent as prescribed by A.R.S. § 49-242(E).

A separate registration fee is required for each pond. Any septage waste that is disposed of in the ponds is subject to disposal fees in accordance with A.R.S. § 49-836. The maximum volume of septage waste accepted at each pond shall never exceed the required freeboard. The annual registration fees will be based on the maximum volume of 2,800 gallons per day of influent per pond as prescribed by A.A.C. R18-14-104, Table 2. The fees are payable to ADEQ each year.

2.1.2 Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee must demonstrate financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of the facility including closure and post-closure care (if clean-closure is not achieved). The cost estimate for closure activities as of October 10, 2023, is $570,912 for the two (2) evaporation ponds.

~~2.2~~ Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The permittee is authorized to construct two (2) lined evaporation ponds with leak detection sumps for the collection and evaporation of septage as shown on the *Drawings* provided in th**e** *PASEP* as referenced in Section 5.0 of this permit.

2.2.1 Engineering Design - Ponds

1. East Pond Dimensions: The East pond is designed with crest dimensions of 165 feet by 500 feet. The pond has a working capacity of 2,346,154 gallons plus sufficient storage capacity for direct precipitation from a rainfall event equal to a 100-year, 24-hour storm event, and maintaining two (2) feet of freeboard.
2. West Pond Dimensions: The West pond is designed with crest dimensions of 165 feet by 500 feet. The pond has a working capacity of 2,346,154 gallons plus sufficient storage capacity for direct precipitation from a rainfall event equal to a 100-year, 24-hour storm event and maintaining two (2) feet of freeboard.
4. Slopes: For each pond, the excavated sideslopes shall be constructed at a maximum of three horizontal to one vertical (3H:1V). The base of the pond shall be constructed with a minimum of 3% slope toward the leak detection sump.
5. Pond Lining System: The evaporation ponds are designed with a double-liner system composed of the following layers from bottom to top:
    a. 40-mil high density polyethylene (HDPE) double textured layer on a smooth-rolled foundation (secondary liner)
    b. Single sided geocomposite liner (leak detection layer, equipped with a pan lysimeter under the low point)
    c. Geosynthetic Clay Liner (GCL)
    d. 60-mil HDPE double textured layer on a smooth-rolled foundation (primary liner), and
    e. One feet protective sand (0.25 inch minus sand)
    f. 6-OZ woven geotextile warning barrier
    g. Six (6) inch layer (3-inch minus gravelly sand)
6. Leak Detection Sump: The ponds are designed with a leak detection sump constructed above the 40-mil HDPE (secondary liner) with a twelve (12) inch diameter perforated HDPE pipe, embedded in a wash rock layer, as shown on the *Construction Plan, Appendix E* provided in the *PASEP*.

2.2.3 Site-Specific Characteristics

Not applicable.

2.2.4 Pre-Operational Requirements

The permittee shall submit the construction certification, as described in Section 2.2.6 of this permit, for the new evaporation ponds prior to the beginning of operation.

2.2.5 Operational Requirements

1. The facility shall be constructed, operated, and maintained in a manner that will protect public health, safety, and the environment as set forth in the *PASEP* as referenced in Section 5.0 of this permit. This includes maintenance of the structures, equipment, training employees, controlling facility access, posting appropriate signage, implementing health and safety programs, regular updates of the safety programs, and recordkeeping. If any damage is identified during an inspection that could cause or contribute to a discharge, proper repairs shall be performed immediately as referenced in Section 4.2.
2. The evaporation ponds are designed for the collection and drying of septage waste from domestic septic sludge and condensate from the Mohave Valley Landfill's gas collection and control system. Dried septage shall be excavated and disposed of into the active landfill.
3. All septage waste that is pumped from each address shall be manifested prior to acceptance at the MVL using the procedures specified in *Procedure No. IP-003* provided in the *PASEP*.
4. The MVL shall perform screening tests on incoming domestic septage waste whereby each incoming load is inspected for hazardous or prohibited constituents using the procedures specified in *Procedure No. IP-003* provided in the *PASEP*.
5. A freeboard height of two (2) feet shall be maintained at all times.
6. Septage solids that have been dried sufficiently to meet the paint filter test, shall be excavated and disposed in the active working face of the landfill.

2.2.6 Construction Requirements

A third-party Arizona registered professional engineer (QAE) shall be responsible for construction quality assurance (CQA) and construction quality control (CQC) procedures for any construction. The QAE shall be responsible for inspecting, collecting, interpreting and reporting field and laboratory results.

The QAE shall certify that all construction, including excavation, soil segregation, subgrade preparation, and any other construction or installation work, is performed according to the approved plans, manufacturer's specifications, engineering testing standards and/or federal, state or local regulations that may apply to the work.

The permittee shall submit the construction certification to ADEQ, and receive approval from the ADEQ Solid Waste Unit prior to beginning operation of the ponds.

2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243, and A.A.C. R18-9-A205(B)]

Discharges shall be prevented by the double-liner system and leak detection sump. No discharge limits are set in this APP permit.

2.4 Point of Compliance (POC) [A.R.S. § 49-244]

The Points of Compliance are established by the following monitoring locations:

POC Locations	Latitude	Longitude
Septic Evaporation East Pond	N035° 01' 30.00"	W114° 31' 02.00"
Septic Evaporation West Pond	N035° 01' 30.00"	W114° 31' 05.00"

In the event that the action leakage rate of 1,833 gpd is exceeded in the pond's leak detection sump, the liquid will be sampled and analyzed for volatile organic compounds and metals, as listed in TABLES 4.1.2 and 4.1.3.

2.5 Monitoring Requirements [A.R.S. § 49-243(K)(1) and (K)(6), A.A.C. R18-9-A206 and R18-9-A209(C)]

The permittee shall continue all monitoring required in this permit for the duration of the permit, regardless of the status of the facility. All sampling, preservation, and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained; and chain of custody procedures shall be followed, in accordance with currently accepted standards of professional practice. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and Title 40 of the Code of Federal Regulations (40 CFR) Part 136 for guidance in this regard. Copies of laboratory analyses and chain of custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

The following information associated with each sample, inspection or measurement should be included in the monitoring records:

1. Name of each individual who performed the sampling, inspection or measurement;
2. Date, time, and exact location of sampling, inspection, or measurement;
3. Date on which the sampling analysis was completed;
4. Name of responsible individual and laboratory who performed the analysis;
5. Analytical techniques or methods used to perform the sampling and analysis; laboratory detection limit for each test method performed, and analytical variance for each parameter analyzed;
6. Chain of custody records; and
7. Any field notes relating to information described in items 1 through 6, above.

2.5.1 Discharge Monitoring

Not applicable.

2.5.2 Facility / Operational Monitoring

Routine Inspections and Maintenance: Liquid levels in the evaporation pond shall be inspected weekly to ensure that a minimum freeboard of 2 feet is maintained in each evaporation pond. The sumps in each pond shall be inspected weekly for the presence of liquids. Any liquids detected shall be pumped back into the septage evaporation pond. The amount of liquid collected in each leak detection sump shall be measured and recorded during transfer to the evaporation pond. Leakage rates exceeding actionable levels shall be promptly addressed according to the Level 1/Level 2/Level 3 Contingency procedures in Section 2.6.1 of this permit. The structural condition of the exposed liner material, riser pipes, and liner anchor trenches shall be inspected on a monthly basis to identify any damage or wear that may require maintenance.

2.5.3 Groundwater Monitoring and Sampling Protocols

Not applicable.

2.5.3.1 POC Well Replacement

Not applicable.

2.5.4 Surface Water Monitoring and Sampling Protocols

Not applicable.

2.5.5 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state approved methods. If no state approved method exists, then any appropriate EPA approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona state certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.6 Installation and Maintenance of Monitoring Equipment

Not applicable.

2.6 Contingency Plan Requirements [A.R.S. § 49-243(K)(3), (K)(7), and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1 General Contingency Plan Considerations

At least one copy of the approved contingency and emergency response plan(s) submitted in the application *PASEP* shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans. Potential situations that may occur that would trigger contingency plan actions include overtopping of the pond, accidental discharge, liquid seepage from the pond, pipe blockages, pond berm or liner system failures or a leak detection sump action leakage rate exceedance.

1. Level 1 Contingency: A Level 1 Contingency shall be defined as actionable levels of liquid accumulating in the leak detection sump in one of the septage evaporation ponds. An acceptable accumulation of liquid in the leak detection sump, from the primary liner is 575 gpd in each of the septage evaporation ponds, as detailed in the *PASEP*. If there is an exceedance of a Level 1 contingency action response level, MVL shall:

    a. Notify the ADEQ Solid Waste Unit as specified in Section 2.7.5 of this permit within 24 hours of becoming aware of the exceedance.

    b. Assess the condition of the liner system.

c. Submit a Corrective Action Plan to ADEQ within 30 days of the notification to address problems identified in the assessment of the liner system.

d. Implement the Corrective Action Plan, as approved by ADEQ.

2. Level 2 Contingency: A Level 2 Contingency shall be defined as actionable levels of liquid accumulating in the leak detection sump in one of the septage evaporation ponds. An acceptable accumulation of liquid in the leak detection sump, from the primary liner is 1833 gpd in each of the septage evaporation ponds, as detailed in the *PASEP*. If there is an exceedance of a Level 2 contingency action response level, MVL shall:

   a. Notify the ADEQ Solid Waste Unit as specified in Section 2.7.5 of this permit within 24 hours of becoming aware of the exceedance.

   b. Initiate actions to identify the location(s) of the leak(s) within three (3) business days of becoming aware of the exceedance.

   c. Cease the disposal of septage in the affected evaporation pond.

   d. Collect a sample of liquid contained in the leak detection sump(s) within five (5) business days of becoming aware of the exceedance and analyze the sample(s) for volatile organic compounds (VOCs) and metals listed in TABLES 4.1.2 and 4.1.3.

   e. Submit a Corrective Action Plan to repair or replace the liner system to ADEQ within 30 days of the notification in item (a).

   f. Implement the corrective action plan, as approved by ADEQ.

3. Level 3 Contingency: A Level 3 Contingency shall be defined as an overtopping of the evaporation pond(s). In the event of a Level 3 Contingency, MVL shall:

   a. Notify the ADEQ Solid Waste Unit as specified in Section 2.7.5 of this permit within 24 hours of becoming aware of the overtopping.

   b. Immediately cease disposal of septage to any pond with less than two (2) feet of freeboard.

   c. Pump the level down from the affected septage evaporation pond so there is two (2) feet of freeboard and record the amount of liquid removed.

   d. Collect a soil sample from the area affected by the release within five (5) business days of the overtopping and analyze the sample(s) for VOCs and metals listed in TABLES 4.1.2 and 4.1.3.

   e. Assess the circumstances that resulted in the overtopping of the evaporation pond(s).

   f. Within 30 days of the notification in item (a), submit an assessment of the overtopping problems identified, and a Corrective Action Plan to assess and remediate, if necessary, the extent of contamination resulting from the overtopping of liquids to the impacted soil.

   g. Implement the Corrective Action Plan, as approved by ADEQ.

2.6.2 Verification Sampling

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the

verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL.

The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as verification sampling has been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of an AQL, or any other permit condition.

2.6.3 Exceeding of Alert Levels

Not applicable.

2.6.3.1 Exceeding of Alert Levels Set for Operational Conditions

Not applicable.

2.6.3.2 Exceeding of Alert Levels Set for Discharge Monitoring

Not applicable.

2.6.3.3 Exceeding of Alert Levels in Groundwater Monitoring

2.6.3.3.1 Alert Levels for Indicator Parameters

Not applicable.

2.6.3.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

Not applicable.

2.6.3.3.3 Alert Levels to Protect Downgradient Users from Pollutants Without Numeric Aquifer Water Quality Standards

Not applicable.

2.6.4 Discharge Limitations (DL) Violations

Not applicable.

2.6.5 Aquifer Quality Limit (AQL) Violation

Not applicable.

2.6.6 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

2.6.6.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.6.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances [A.R.S. § 49-201(18)] or toxic pollutants [A.R.S § 49-243(I)] on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Emergency Response Unit at (602) 771-2300 and the ADEQ Solid Waste Unit within twenty-four (24) hours upon discovering the discharge of hazardous material that: (a) has the potential to cause an AWQS or AQL exceedance; or (b) could pose an endangerment to public health or the environment.

2.6.6.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the ADEQ Solid Waste Unit within twenty-four (24) hours upon discovering the discharge of non-hazardous material that: (a) has the potential to cause an AQL exceedance; or (b) could pose an endangerment to public health or the environment.

2.6.6.4 Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.6.2 and 2.6.6.3 to the ADEQ Solid Waste Unit within thirty (30) days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, facility response activities and include all information specified in Section 2.7.3.

If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in that notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6.5 Liquid Waste Discharge Notification Requirements

The following notifications are required if there is an unauthorized discharge of liquid waste from the septage evaporation ponds:

1. Within five (5) business days of unauthorized liquid waste discharge from the ponds or leak detection sump(s), the permittee shall notify ADEQ Solid Waste Unit.
2. Within seven (7) days of detection, the permittee shall place in the operating record a description of the steps taken to protect human health. A copy of this description shall be submitted to the ADEQ Solid Waste Unit.
3. The permittee shall submit reports including any analytical results, leak detection investigation activities, an explanation of the conditions responsible for the liquid discharge, and repair and/or operational changes designed to prevent future failures within the time frame

indicated in the contingency plan outlined in the *PASEP* to the ADEQ Solid Waste Unit.

2.6.7 Corrective Actions

Specific contingency measures identified in Section 2.6 of this permit and actions identified in the contingency plan referenced in the approved *PASEP* have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.6, the permittee shall obtain written approval from the ADEQ Solid Waste Unit prior to implementing a corrective action to accomplish any of the following goals in response to exceeding an AL or violation of an AQL or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer; or
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within thirty (30) days of completion of any corrective action, the permittee shall submit to the ADEQ Solid Waste Unit a written report describing the causes, impacts and actions taken to resolve the problem.

2.7 Reporting and Recordkeeping Requirements [A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self Monitoring Report Forms (SMRF)

Not applicable.

2.7.2 Operation Inspection / Operating Record

A signed copy of this permit shall be maintained at all times at the location where decisions regarding the operation of the facility are made. An operating record (paper copies, forms or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where decisions are made regarding the operation of the facility. Facility inspections shall be conducted in accordance with TABLE 4.2.3. The operating record shall be retained for ten (10) years from the date of each inspection and, upon request, the permit and the operating record shall be made immediately available for review by ADEQ personnel. The information in the operating record shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and time inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction, and the date and time any repairs were performed; including all repair procedures and materials used;
5. Documentation of date and time for any sampling;
6. Any other information required by this permit to be entered in the operating record; and

7. Monitoring records for samples shall comply with R18-9-A206(B)(2) and R18-9-A209(C).

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the ADEQ Solid Waste Unit in writing within five (5) business days (except as provided in Section 2.6.6) of becoming aware of a violation of any permit condition or of an AL exceedance.
2. The permittee shall submit a written report to the ADEQ Solid Waste Unit within thirty (30) days of becoming aware of the violation of any permit condition unless otherwise specified under the time frames listed in TABLE 4.3.1 of this permit. The report shall document all of the following:
   a. Identification and description of the permit condition for which there has been a violation and a description of its cause;
   b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
   c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
   d. Any monitoring activity or other information that indicates that any pollutants would be reasonably expected to cause a violation of an AWQS if a discharge occurred;
   e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
   f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4 Operational, Other, or Miscellaneous Reporting

2.7.4.1 Closure/Post-Closure Monitoring and Reporting

1. Until clean closure is achieved, the ponds shall be inspected at least quarterly, and after every significant rain and wind event. All damage to groundwater monitoring and piezometer wells and fencing shall be recorded so that it can be repaired promptly and by the next inspection date. Facility inspection reports covering events shall be kept in a facility file.
2. Post-closure monitoring and maintenance will not be necessary if ADEQ Solid Waste Unit determines that the proposed closure activities are adequate and subsequent sampling results meet the criteria for clean closure approval. If clean closure is not approved, post-closure monitoring will be required and will consist of periodic inspection and maintenance of any remaining structures.

2.7.5 Reporting Location

All documents required by this permit to be submitted to the ADEQ Solid Waste Unit shall be directed to either:

Arizona Department of Environmental Quality
Solid Waste Unit
Waste Programs Division
1110 W. Washington Street
Phoenix, AZ 85007

Phone (602) 771-4110, or:

Solidwastepermits@azdeq.gov

2.7.6 Reporting Deadline

2.7.6.1 Groundwater Monitoring

Not applicable.

2.7.6.2 Repairs

Reports on any repairs shall be submitted annually and shall be received by January 31 of each year reporting on repair events of the prior year.

2.7.7 Changes to Facility Information in Section 1.0

The ADEQ Solid Waste Unit shall be notified within ten (10) days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person or Emergency Telephone Number.

2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the ADEQ Solid Waste Unit before ceasing operation of the facility for a period of sixty (60) days or greater.

At the time of notification, the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ's approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the ADEQ Solid Waste Unit of the operational status of the facility every three (3) years. When the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252, and A.A.C. R18-9-A209(B)]

The permittee shall give written notice of closure to the ADEQ Solid Waste Unit of the permittee's intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

Within ninety (90) days following notification of closure, the permittee shall submit for approval to the ADEQ Solid Waste Unit, a revised Closure Plan, stating any changes to the *PASEP* which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3)(a).

2.9.2 Closure/Post-Closure Requirements

The closure process for the septage evaporation ponds shall be as outlined in the approved *PASEP*. The pond closure activities shall consist of, but not limited to the following activities:

1. Removal of any liquid remaining in a pond through evaporation.
2. Removal of any sludge residue remaining in a pond and dispose of the material in the MVL.

3. Removal of all liners and disposal of the liners in the MVL.
4. Sampling and analysis of the soil below the pond to determine if a release has occurred.
5. Corrective action shall be implemented as necessary.
6. Filling the area with native soil, compacting and grading to provide surface drainage and to minimize surface ponding.

2.9.3 Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the ADEQ Solid Waste Unit indicating that the approved Closure Plan has been implemented fully and providing supporting documentation to demonstrate that closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). The permittee shall submit a CQA/CQC report, signed by an independent Arizona registered professional engineer, verifying that closure has been completed in accordance with the *PASEP* and any updates required under Section 2.9.1. If clean closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If clean closure has not been achieved, the permittee shall follow the terms of post-closure stated in this permit.

2.10 Post-Closure [A.R.S. §§ 49-243(K)(6), 49-252, and A.A.C. R18-9-A209(C)]

2.10.1 Post-Closure Plan

The permittee shall maintain the facility in a manner that will protect public health, safety, and the environment. If clean closure has not been achieved, a Post-Closure Plan shall be required. The Post-Closure Plan shall include all monitoring and maintenance activities as outlined in A.A.C. R18-9-A209(C)(1) and the approved *PASEP* and shall ensure that any reasonable probability both of future discharge from the facility and of exceeding AWQSs at the applicable point of compliance are eliminated to the greatest extent practicable.

An approved post-closure care program shall be provided for thirty (30) years from the date of final closure acknowledgment by ADEQ, and shall consist of:

1. Maintaining the integrity and effectiveness of any remaining pond structures.
2. Maintaining and operating groundwater monitoring wells.
3. Controlling public access by maintaining signs and fences to the closed ponds.
4. Complying with the recordkeeping requirements specified in the Section 2.7 of this permit.
5. Providing and maintaining financial assurance for the costs associated with post-closure maintenance and any necessary corrective action as a result of known releases from the ponds in accordance with Section 6.5 of this permit.

2.10.2 Post-Closure Completion

The permittee shall notify ADEQ in writing within thirty (30) calendar days of completion of all post-closure care activities. The written notice shall include a certification, signed by an independent Arizona registered professional engineer hired by the permittee, verifying that post-closure care has been completed in accordance with the approved post-closure care plan.

3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Not applicable.

4.0 TABLES OF MONITORING REQUIREMENTS

4.1 LEAK DETECTION SUMP MONITORING

TABLE 4.1.1 SAMPLING LOCATIONS

Sump Number	Latitude	Longitude
Septic Evaporation East Pond	N035° 01' 30.00"	W114° 31' 02.00"
Septic Evaporation West Pond	N035° 01' 30.00"	W114° 31' 05.00"

TABLE 4.1.2 VOLATILE ORGANICS

Parameter	Analytical Method [1]
Benzene	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform; Bromomethane	EPA 8260B
Bromobenzene	EPA 8260B
sec-Butylbenzene	EPA 8260B
Carbon disulfide	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chlorobenzene	EPA 8260B
Chloroethane; Ethyl chloride	EPA 8260B
Chloroform; Trichloromethane	EPA 8260B
2-Chloroethyl vinyl ether	EPA 8260B
2-Chlorotoluene	EPA 8260B
4-Chlorotoluene	EPA 8260B
1,2-Dibromo-3-Chloropropane; DBCP	EPA 8260B
Dibromochloromethane; Chlorodibromomethane	EPA 8260B
1,2-Dibromoethane; Ethylene Dibromide; EDB	EPA 8260B
Dibromomethane	EPA 8260B
o-Dichlorobenzene; 1,2-Dichlorobenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B
p-Dichlorobenzene; 1,4-Dichlorobenzene	EPA 8260B
1,1-Dichloroethane; Ethylidene chloride	EPA 8260B
1,2-Dichloroethane; Ethylene dichloride	EPA 8260B
1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride	EPA 8260B
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	EPA 8260B
trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	EPA 8260B
Dichlorodifluoromethane (Freon 12)	EPA 8260B
1,2-Dichloropropane; Propylene dichloride	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
1,1-Dichloropropene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B

trans-1,3-Dichloropropene	EPA 8260B
Di-isopropyl ether	EPA 8260B
Dichloromethane; Methylene chloride	EPA 8260B
Ethyl Acetate	EPA 8260B
Ethyl Ether	EPA 8260B
Ethyl tert-butyl ether	EPA 8260B
Ethylbenzene	EPA 8260B
Hexachlorobutadiene	EPA 8260B
4-Isopropyltoluene	EPA 8260B
Isopropyl benzene	EPA 8260B
Methyl chloride; Chloromethane	EPA 8260B
Methyl tert-butyl ether (MTBE)	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
Napthalene	EPA 8260B
Styrene	EPA 8260B
tert-Amyl methyl ether	EPA 8260B
tert-Butanol	EPA 8260B
tert-Butylbenzene	EPA 8260B
Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	EPA 8260B
1,1-Trichlorotrifluoroethane (Freon 113)	EPA 8260B
1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane; Methylchloroform	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,2,3-Trichlorobenzene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2,4-Trichlorobenzene	EPA 8260B
1,2,4-Trimethylbenzene	EPA 8260B
1,3,5-Trimethylbenzene	EPA 8260B
Toluene	EPA 8260B
Trichloroethylene; Trichloroethene	EPA 8260B
Trichlorofluoromethane; CFC-11	EPA 8260B
Vinyl acetate	EPA 8260B
Vinyl chloride	EPA 8260B
Xylenes (Total)	EPA 8260B

[1]The permittee shall use only EPA approved methods unless ADEQ authorizes the use of another method. The permittee may substitute any EPA approved method for any other, if the substituted method provides detection limits that are equal to or lower than the limits of the originally approved method. All laboratory analyses shall have detection limits that are adequate for detection of the regulatory limits of the parameter in question. ADEQ reserves the right to determine the adequacy of the laboratory results based on the detection limits used.

TABLE 4.1.3 INORGANICS

Parameter	Analytical Method [1]
Antimony	EPA 6010B
Arsenic	EPA 6010B
Barium	EPA 6010B
Beryllium	EPA 6010B
Cadmium	EPA 6010B
Chromium	EPA 6010B
Cobalt	EPA 6010B
Copper	EPA 6010B
Lead	EPA 6010B
Mercury	EPA 6010B
Molybdenum	EPA 6010B
Nickel	EPA 6010B
Selenium	EPA 6010B
Silver	EPA 6010B
Thallium	EPA 6010B
Vanadium	EPA 6010B
Zinc	EPA 6010B

[1] The permittee shall use only EPA approved methods unless ADEQ authorizes the use of another method. The permittee may substitute any EPA approved method for any other, if the substituted method provides detection limits that are equal to or lower than the limits of the originally approved method. All laboratory analyses shall have detection limits that are adequate for detection of the regulatory limits of the parameter in question. ADEQ reserves the right to determine the adequacy of the laboratory results based on the detection limits used.

4.2 COMPLIANCE MONITORING

TABLE 4.2.1 LEAK DETECTION SUMP MONITORING

Parameter	Alert Level	Method	Monitoring Frequency
Fluid Level	Action leakage rate of 575 gpd	Field Observation	Weekly
Volume Pumped	N/A	Flow Rate Meter	As Pumped

TABLE 4.2.2 LEAK DETECTION SUMP MONITORING PARAMETERS

Parameter	Method
Volatile Organics	As listed in TABLE 4.1.2
Inorganics	As listed in TABLE 4.1.3

TABLE 4.2.3 FACILITY INSPECTIONS – OPERATIONAL

Parameter	Performance Levels	Inspection Frequency
Berm Integrity	No visible structural damage, breach, or erosion.	Monthly and after every significant rain and wind event.
Leak Detection Sump	Any liquids detected shall be pumped back into the evaporation pond. Level 1 contingency leakage rate is 575 gpd.	Weekly
Septage waste material in ponds	No fumes, oxidation or unexpected odors that indicate a reaction is occurring.	Daily
Liquid level in septage ponds	2 feet or more of freeboard.	Weekly and after every significant rain event.
Leak detection sump piping	No obstructions or clogging.	Monthly, repairs and maintenance on as needed basis.
HDPE liners (exposed, visible portion)/anchor trenches and riser pipe.	No damage or environmental stress cracking.	Monthly, repairs and maintenance on as needed basis.
Public Access Control	Repair and replacement, as necessary, of fence and maintenance of no trespassing signs. Locked gate during non- business hours. Maintenance of all signage.	Quarterly and as needed basis

4.3 CONTINGENCY MONITORING

TABLE 4.3.1 CONTINGENCY ACTIONS FOR PONDS AND LEAK DETECTION SUMP

Contingency Event	Contingency Action	Reporting [2, 3]
Action leakage rate exceeds 575 gpd (Level 1) in the pond's leak detection sump.	Within 5 business days of discovery, assess the condition of the liner system. Develop a corrective action plan. Make needed repairs/adjustments.	30 days
Action leakage rate exceeds 1,833 gpd (Level 2) in the pond's leak detection sump.	Within 3 business days of discovery, initiate actions to identify the location(s) of the leak(s). Cease disposal of liquids into the pond. Within 5 business days of discovery, sample the sump liquids for the parameters listed in TABLES 4.2.1 and 4.2.2. Develop a corrective action plan.	30 days

	Make needed repairs/adjustments.	
Pond overtopping (Level 3).	Cease disposal of liquids into the pond. Remove liquid as necessary to obtain 2-foot minimum freeboard. Within 5 business days, sample the soil from the area affected by the release for the parameters listed in TABLE 4.2.2. Develop a corrective action plan. Make needed repairs/adjustments.	30 days
Pond berm or liner system failure.	Cease disposal of liquids into the pond; if possible create a temporary containment structure. If necessary, remove all liquid from the pond. Remove impacted soils to the landfill. Sample the liquid for the parameters listed in TABLE 4.2.2. Develop a corrective action plan. Make needed repairs/adjustments.	30 days

[2] The permittee shall notify the ADEQ Solid Waste Unit in writing within five (5) business days of becoming aware of a violation.

[3] The permittee shall provide documentation as specified in the contingency plan of the *PASEP* to the ADEQ Solid Waste Unit within the specified timeframe.

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

1. *Groundwater Quality Protection Permit* dated April 12, 1988
2. *Request for a Suspension of Ground Water Monitoring and Composite Liner Requirements at the Mohave Valley Landfill, Mohave County, Arizona*, by Vector Engineering, Inc., dated December 1996
3. Approval for *Suspension of Groundwater Monitoring and Composite Liner Requirements at the Mohave Valley Landfill*, dated January 9, 1997, ADEQ
4. *Solid Waste Facility Plan Approval No. 08004600.00*, dated May 13, 1998
5. *Aquifer Protection Permit No. P-100330.00*, dated August 24, 1998
6. MFPA No. 08004600.01, dated November 19, 2004
7. *Groundwater Supply Evaluation, Mohave Landfill, Arizona* (Technical Memorandum added to Appendix K of SWFP), by Civil & Environmental Consultants, Inc. (CEC), dated March 23, 2011

8. *Test Boring Results, Mohave Valley Landfill, Arizona* (Technical Memorandum added to Appendix K of SWFP), by CEC, dated June 8, 2011
9. MFPA No. 08004600.02, dated August 24, 2011
10. *Permit Application for Septage Evaporation Ponds, Mohave Valley Landfill, Fort Mohave, Arizona,* by Stantec Consulting Services, Inc., dated September 4, 2015
11. *Mohave Valley Landfill, Fort Mohave, Arizona, Aquifer Protection Permit Application to Permit #P-100330.00, Response to First Administrative Review,* by Stantec Consulting Services, Inc., dated March 30, 2015
12. *Mohave Valley Landfill, Fort Mohave, Arizona, Aquifer Protection Permit Application to Permit #P-100330.00, Response to Second Administrative Review,* by Stantec Consulting Services, Inc., dated May 1, 2015
13. *Aquifer Protection Permit No. P-100330.01,* dated October 22, 2015, for the replacement and renovation of the existing three (3) septage evaporation ponds
14. *Permit Amendment Application for Septage Evaporation Ponds*, Mohave Valley Landfill, Fort Mohave, Arizona, (PASEP) dated October, 2023., and prepared by SCS Engineers.
15. *Aquifer Protection Permit No. P-100330.02,* dated November XX, 2023, for the construction, maintenance, and operation of two (2) septage evaporation ponds

6.0 GENERAL CONDITIONS AND RESPONSIBILITIES

6.1 Annual Registration Fees [A.A.C. R18-14-104]

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ as referenced in Section 2.1.1 of this permit.

6.2 Duty to Comply [A.R.S. §§ 49-221 through 49-263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2, and 3 of the Arizona Revised Statutes and Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information that the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5 Technical and Financial Capability [A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application pursuant to A.A.C. R18-9-A203(D) shall remain in effect for the duration of the permit.

6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. The filing of bankruptcy by the permittee.
2. The entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7 Monitoring and Records [A.R.S. §§ 49-243(K)(8) and A.A.C. R18-9-A206 and A209(C)]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit and with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8 Inspection and Entry [A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. **§§** 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices specified by this permit.

6.10 Permit Action: Amendment, Transfer, Suspension and Revocation. [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, renewed or revoked for cause, under the rules of the Department.

The permittee shall notify the ADEQ Solid Waste Unit in writing within fifteen (15) days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2 Severability [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer will be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

END OF AQUIFER PROTECTION PERMIT NO. P-1003300.02

****

Appendix C-7

Public Notices, Meetings Minutes, and List of Adjacent Property Owners

11/7/86

MOHAVE COUNTY PUBLIC WORKS

119 E. ANDY DEVINE AVENUE KINGMAN • ARIZONA 86401

PHONE 753-9141 EXT. 227, 380, 381

David J. Grisez, P.E.
Director

Artie Gough
Department of Revenue
5555 N. 7th Avenue - Room B 350
Phoenix, Arizona 85013

Dear Mr. Gough,

Mohave County, in compliance with House Bill 2182, requests the names and addresses of all owners of real property within a three mile radius of the outer boundaries of the proposed Mohave Valley Sanitary Landfill Site in the Southeast One Quarter of Section 21, T19N, R21W, G&SRB&M, situated along El Rodeo Road, approximately four and one half miles from its junction with Arizona State Route nineth-five, Mohave Valley, Mohave County, Arizona.

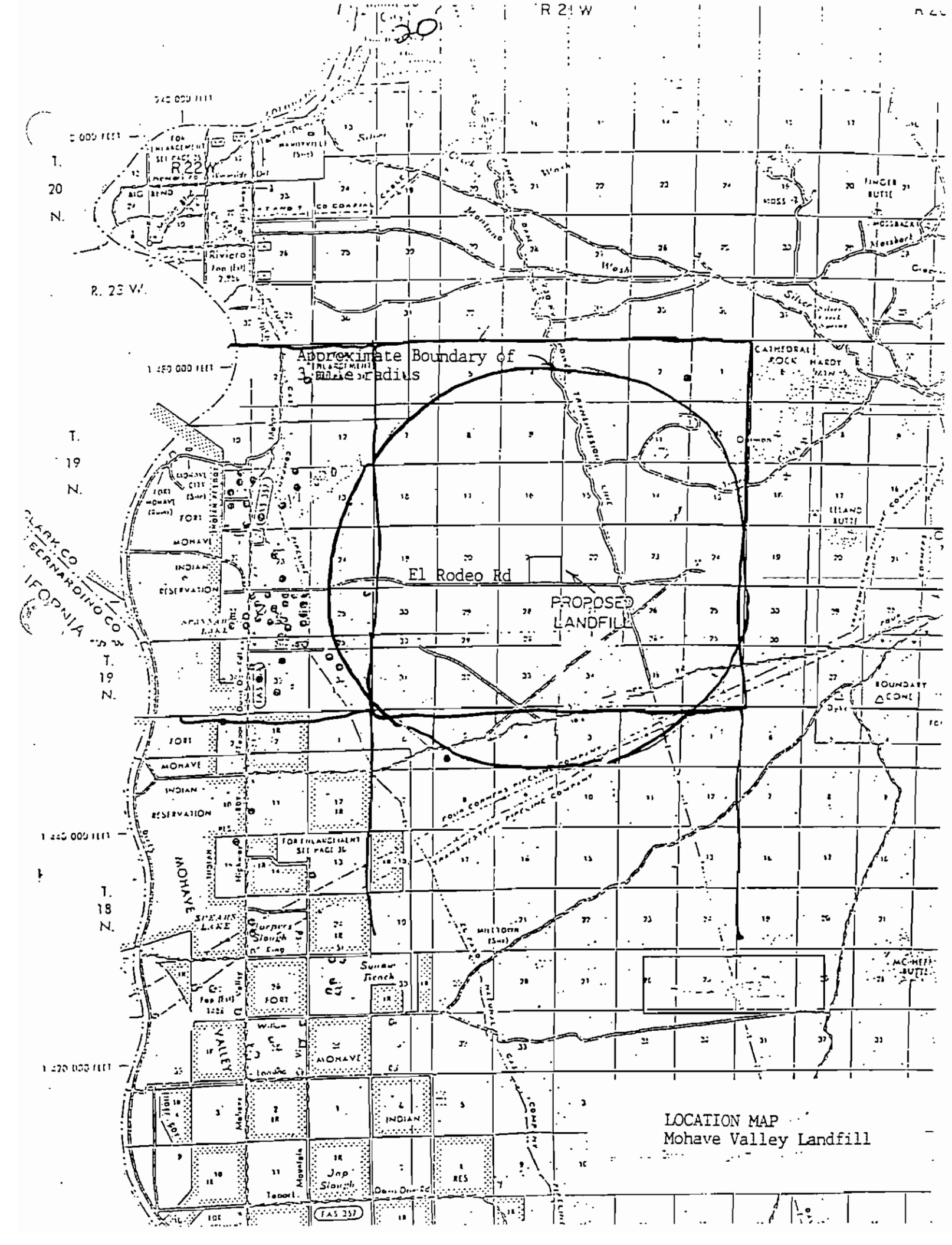
Enclosed is ADOT map with the area outlined. If any additional information is required, please contact me at the above number.

Sincerely yours,

David J. Grisez P.E.
Public Works Director

DJG/mph

Enc. - 1



LOCATION MAP
Mohave Valley Landfill

ARIZONA DEPARTMENT OF REVENUE

J. Elliott Hibbs
Director

Bruce Babbitt
Governor

RECEIVED

December 5, 1986

Mr. David J. Grisez, P.E.
Public Works Director
Mohave County Public Works
119 E. Andy Devine Avenue
Kingman, AZ 86401

Dear Mr. Grisez:

Enclosed you will find a list of all the property owners and addresses which are appraised by the Division of Property Valuation and Equalization as indicated on your map. Some of the taxpayers included in the list may be outside the area. In that case, it is better to include more than to leave some out.

The five digits in front of the address should be used when writing to the taxpayers. This number is their tax number in our files.

As to the locally assessed files, what we could prepare would be the same file that you already received from the Mohave County Assessor's office.

With both lists, I am sure that all the taxpayers in the area will be notified.

Sincerely,

DIVISION OF PROPERTY VALUATION AND EQUALIZATION

Arthur L. Gough

Arthur L. Gough, I.F.A.S.
Appraisal Services Unit Supervisor
Locally Assessed Properties Section

ALG:sw

Enclosure

County 08
A/C 1500, 1600, 1601, 1621

52-725
American Telephone & Telegraph Co.
Interstate Divison
A. L. Ball District Manager Taxes
340 Mt. Kemble Avenue
Morristionw, NJ 07960

52-727
Citizens Utilities Rural Co.
C/O Financial Tax Service Corp.
456 Tunxis Hill Road
Fairfield, CT 06430

53-850
Four Corners Pipeline Co.
Atlantic Richfield Co.
Western Property Tax Division
P. O. Box 2679 - T.A.
Los Angeles, CA 90051

53-851
El Paso Natural Gas Co..
George P. Douglas, Ad Valorem Tax
P. O. Box 1492
El Paso, TX 79978

53-853
Transwestern Pipeline Co.
Property Tax Department
P. O. Box 1188
Houston, TX 77001

53-856
Black Mesa Pipeline
Louis M. Stepanski, Asst. Tax Commissioner
9830 N. 32nst Street, Suite B-106
Phoenix, AZ 85028

53-858
Southwest Gas Transmission Co.
Richard H. Stites, Tax Director
P. O. Box 15015
Las Vegas, NV 89114-5015

54-600
Arizona Electric Power Co-op.
P. O. Box 670
Benson, AZ 85602

54-608
Mohave Electric Co-op, Inc.
P. O. Box 1045
Bullhead City, AZ 86430

54-641
Southwest Gas Corporation
R. H. Stites, Tax Manager
P. O. Box 15015
Las Vegas, NV 89114

54-650B
Arizona Public Service Company
500 K V Transmission Line
Tax Services Station 1520
P. O. Box 21666
Phoenix, AZ 85036

55-024
Bermuda Water Co.
13901 N. 73rd Street, Suite 204
Scottsdale, AZ 85206

55-332
Pebble Lake Water Co.
Elma V. Beck
5226 E. Arroyo Road
Scottsdale, AZ 85253

55-351
Katherine Resort Water Co.
C/O CE Schuetz
747 Turquoise St.
San Diego, CA 92109

55-379
Citizens Utilities Co.
Mohave County Water Division
% Financial Tax Service Corp.
456 Tunxis Hill Road
Fairfield, CT 06430

61-977
Frisco Mine
Frisco Land and Mining Co.
Douglas Bonelli
4081 Kings Canyon Road
Carson City, NV 89701

NOTICE OF A PUBLIC HEARING

by the

Mohave County Department of Public Works
119 E. Andy Devine Avenue
Kingman, Arizona 86401
(602) 753-9141 Ext. 380

Intended Action to Establish a Landfill

Mohave County is issuing the following notice, in accordance with A.R.S. 36-3137, of intended action to purchase, site and operate, for the purpose of establishing a Landfill for the Mohave Valley area, approximately 160 acres of State Owned Trust Land located along El Rodeo Road, four and one half (4 1/2) miles from its junction with Arizona State Route 95. The land is described as being the Southeast 1/4 of Section 21, Township 19 North, Range 21 West, G&SRB&M, Mohave County, Arizona. The facility will receive and dispose of approximately 175 tons of waste per day which shall include household, commercial, and institutional waste, and dead animals. Waste Material, defined as hazardous by the Environmental Protection Agency, shall not be accepted for disposal at this facility.

Operational Authority will be the Mohave County Landfill Department under the direct supervision of the Mohave County Public Works Director.

A Public Hearing concerning the Mohave Valley Landfill will be held Thursday, January 29, 1987 starting at 7:00 PM in the Mohave Valley Elementry School Auditorium, located in Mohave Valley on Willow Drive, just west of Highway 95, Mohave County, Arizona. Any interested persons may appear at the hearing and present their views or may submit their comments.

Please bring the foregoing notice to the attention of all persons you know who might be interested in this matter.

David J. Grisez, P.E.
Director, Public Works

Publish: January 9, 1987
January 16, 1987

TO: Property Owners

FROM: Mohave County Department of Public Works

RE: Mohave Valley Sanitary Landfill

DATE: January 7, 1987

In accordance with A.R.S. 35-3107 "Public Notification for the establishment of a sanitary landfill waste disposal operation", Mohave County is notifying all property owners, within a three mile radius of the outer boundary of the proposed site, of the intent to purchase, site and operate, for the purpose of establishing a Landfill for the Mohave Valley area, approximately 160 acres of State Owned Trust Land located along El Rodeo Road, four and one half (4 1/2) miles from its junction with Arizona State route 95. The land is described as being the Southeast 1/4 of Section 21, Township 18 North, range 21 West, G&SRB&M, Mohave County, Arizona.

This Facility will receive and dispose of approximately 175 tons of waste per day which shall include household, commercial, and institutional waste, and dead animals. Waste Material defined as hazardous by the Environmental Protection Agency shall not be accepted for disposal at this facility.

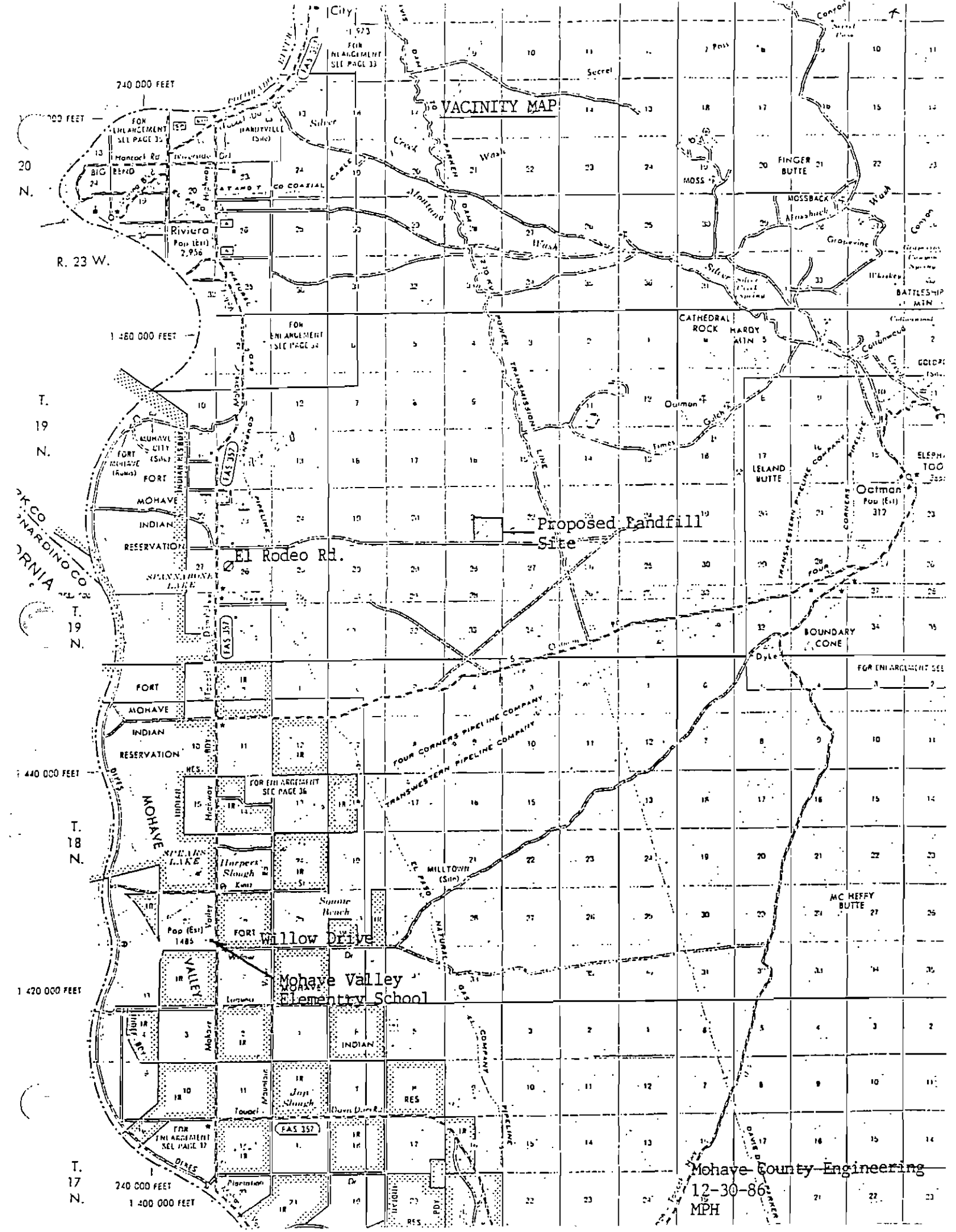
Operational Authority will be the Mohave County Landfill Department under the direct supervision of the Mohave County Public Works Director.

Persons wishing to comment on the proposed action should submit their comments or requests in writing, within fifteen (15) days from the date of this letter, to Mohave County Public Works Department, 119 East Andy Devine Avenue, Kingman, Arizona 86401. All comments submitted within thirty (30) days of the date of this notice will be considered in the formulation of the final decision concerning this proposed action.

A Public Hearing concerning the Mohave Valley Landfill will be held Thursday, January 29, 1987 starting at 7:00 PM in the Mohave Valley Elementry School Auditorium, located in Mohave Valley on Willow Drive, just west of Highway 95, Mohave County, Arizona. Any interested persons may appear at the hearing and present their views or may submit their comments.

Please bring the foregoing notice to the attention of all persons you know who might be interested in this matter.

David J. Griser P.E.
Mohave County Public Works Director
119 E. Andy Devine Ave.
Kingman, Arizona 86401
Phone: (602) 753-9141 Ext. 380


VACINITY MAP
Proposed Landfill Site
El Rodeo Rd.
Willow Drive
Mohave Valley Elementry School
Mohave County Engineering
12-30-86
MPH
Riviera
Pop (Est) 2,956
Oatman
Pop (Est) 312
Mohave City (Site)
Fort Mohave (Ruins)
Fort Mohave Indian Reservation
Pop (Est) 1485
Milltown (Site)
Boundary Cone
Finger Butte
Moss
Mossback
Cathedral Rock
Hardy Mtn
Leland Butte
McHeffy Butte
Battleship Mtn
Four Corners Pipeline Company
Transwestern Pipeline Company
Mohave Lake
Harpers Slough
Jay Slough
Topock
Needles
Parker
Dyke
Oatman Gulch
Silver Creek
Secret Canyon
Grapevine Wash
Parker Wash
Cable Creek
Mountain Wash
Silver Wash
Big Bend
Hardyville (Site)
Fort Mohave Indian Reservation
Lake Mohave
Colorado River
240 000 FEET
1 460 000 FEET
1 440 000 FEET
1 420 000 FEET
1 400 000 FEET
R. 23 W.
T. 20 N.
T. 19 N.
T. 18 N.
T. 17 N.
FAS 357
FOR ENLARGEMENT SEE PAGE 33
FOR ENLARGEMENT SEE PAGE 36
FOR ENLARGEMENT SEE PAGE 37
Mohave County
San Bernardino Co
Arizona

RECEIVED
APR 24 1987
MOHAVE CITY PUBLIC WORKS

MOHAVE COUNTY BOARD OF SUPERVISORS
MOHAVE COUNTY, KINGMAN ARIZONA
SPECIAL MEETING OF MARCH 23, 1987

The Board of Supervisors of Mohave County met in Special Session this 23rd day of March, 1987 at approximately 10:00 AM. In attendance were Jerry A. Holt, Chairman, W.J. "Bill" Roper, Dale D'Alessandro, Becky Foster, Jack Rose members, William J. Ekstrom, Mohave County Attorney, Jeff Johnson Financial Services Director and Pat Chastain, Clerk of the Board.

Also in attendance were members of the press and other interested persons.

The meeting was called to order with the Pledge of Allegiance.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Roper and unanimously carried to meet in Executive Session for Legal Counsel in accordance with A.R.S. 38-431.03 (A) (3) to discuss items noticed on the agenda with asterisk prior to the Regular meeting of April 6, 1987.

There being no further corrections or additions to the most recently drafted minutes for the Board of Supervisors meeting held February 17, 1987, Chairman Holt declared the minutes approved.

Chairman Holt advised that the minutes for the Board of Supervisors meeting held March 2, 1987 were not ready at this time and approval was therefore continued.

The meeting now continued with the following Planning and Zoning items as presented by Mike Rozycki, Community Services Director, for consideration and action by the Board as follows:

1. Motion was made by Supervisor Rose, seconded by Supervisor Roper and unanimously carried to postpone to April 6, 1987 evaluation of a request for a Zoning Use Permit to establish a mobile home as a caretaker's residence in a C-2 (General Commercial) zone on a 3/4 acre parcel along the east side of London Bridge Road, 1/4 mile south of Lake Drive, being a portion of the SW 1/4 SW 1/4 of Section 21, Township 14 North, Range 20 West, located in the Desert Hills area.

2. Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carried to approve, subject to conditions, Zoning Use Permit to use a portion of the existing storage facility as an apartment for a caretaker's residence in a C-MO (Commercial Manufacturing/Open Lot Storage) zone on the easterly 225 feet of the northerly 331 feet of the NW 1/4 of the NW 1/4 of the NW 1/4 of Section 26, Township 19 North, Range 22 West, located in the South Mohave Valley area, by adoption of Resolution P&ZC:87-42, as recommended by the Planning and Zoning Commission.

3. Motion was made by Supervisor Rose, seconded by Supervisor Foster to approve, subject to conditions, the Zoning Use Permit to establish a mobile home as a sales office in conjunction with a proposed mobile home sales business in a C-2 (General Commercial) zone on S 1/2 SE 1/4 NE 1/4 Section 22, Township 19 North, Range 22 West, also known as tax assessor's parcel #212-43-023 & 024, located in the South Mohave Valley area, by adoption of Resolution P&ZC: 87-43, as recommended by the Planning and Zoning Commission. The following votes were recorded on the motion: Supervisor Rose-Yes, Supervisor Foster-Yes, Supervisor Roper-Yes, Supervisor D'Alessandro-Abstain, Chairman Holt-Yes. Motion carried by majority vote.

4. Motion was made by Supervisor Rose, seconded by Supervisor Foster to approve, subject to conditions, the Zoning Use Permit to establish a mobile home as a caretaker's residence in a C-2 (General Commercial) zone on S 1/2 SE 1/4 NE 1/4 NE 1/4 Section 22, Township 19 North, Range 22 West, also known as tax assessor's parcel #212-43-023 & 024, located in the South Mohave Valley area, by adoption of Resolution P&ZC: 87-44, as recommended by the Planning and Zoning Commission. The following votes were recorded on the motion: Supervisor Rose-Yes, Supervisor Foster-Yes, Supervisor Roper-Yes, Supervisor D'Alessandro- Abstain, Chairman Holt-Yes. Motion carried by majority vote.

5. Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carried to approve, subject to conditions the Zoning Use Permit to establish a tent revival as temporary use in an A-R/36A (Agricultural-Residential/Thirty-Six Acre Minimum Lot Size) zone on an 8.5 acre parcel in a portion of the NE 1/4 NE 1/4 Section 10, Township 25 North, Range 19 West, located in the Dolan Springs area, by adoption of Resolution P&ZC: 87-49, as recommended by the Planning and Zoning Commission.

6. Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to approve, subject to conditions and subject to the set back of Right-of-way, expansion of the Sunshiner's R-V/Mobile Home Park in the W 1/2 of Section 33, Township 41 North, Range 15 West, located in the Littlefield/Beaver Dam area on the Arizona Strip, by adoption of Resolution P&ZC: 87-53, as recommended by the Planning and Zoning Commission.

7. Motion was made by Supervisor Foster, seconded by Supervisor D'Alessandro and unanimously carried to postpone to April 6, 1987 the evaluation of a request to eliminate the stipulation that Dolan Springs Estates, Tentative Tract 1009 be annexed to the Mt. Tipton Water Company prior to recordation of the final subdivision plats, located in the Dolan Springs area.

8. At the request of the Community Services Director, Mike Rozycki the continued evaluation of a proposed amendment to the Golden Valley Area plan extending the areas along Highway 68 which may be encouraged as commercial zoning district, to include all lots and parcels frontage on Highway 68 between Bucchi & Verde Roads, together with all lots and parcels one-half (1/2) mile east and west of Estrella Road, was referred back to the Planning and Zoning Department.

The meeting of the Board of Supervisors was recessed and reconvened as the Board of Directors of the Mohave County Library District.

Motion was made by Director D'Alessandro, seconded by Director Rose and unanimously carried to approve the expenditure of $3,293.00 for furniture for the "Reading Room" in the Bullhead City Library.

Motion was made by Director D'Alessandro, seconded by Director Roper and unanimously carried to adopt Mohave County Library District Resolution NO. 87-2 effectively approving Arizona State Dept. of Library, Archives and Public Records grant of $5,000.00 "Literacy Planning Grant" for Kingman Library.

There being no further business to come before the Board of Directors of the Mohave County Library District the meeting was adjourned and reconvened as the Board of Supervisors.

Motion was made by Supervisor Foster, seconded by Supervisor D'Alessandro and unanimously carried to refer to County Manager, County Attorney and staff to review and make recommendation, resolution regarding oversize loads on County Highways and Roads.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Rose and unanimously carried to table until after the lunch break, "discussion and possible action RE: Mohave Valley Landfill - recommendations by the Mohave County Public Works Director.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Rose and unanimously carried to table until after the lunch break, "discussion and possible action RE: Silver Creek Landfill.

Motion was made by Supervisor D'Alessandro seconded by Supervisor Roper to approve Registered Sanitarian Services Contract between John Clark and Mohave County as requested by Frank Krogman, Mohave County Health & Social Services Department.

Chairman Holt called for a five minute break to await the arrival of the Personnel Director.

Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro to approve personnel requisition for a legal Secretary for the Mohave County Public Defender at $6.16 (hourly) or $3,919.00 for the remainder of this fiscal year. The following votes were recorded on the motion: Supervisor Roper-Yes, Supervisor D'Alessandro-Yes, Supervisor Foster-No, Supervisor Rose-Yes, Chairman Holt-Yes. Motion carried by majority vote.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to approve personnel requisition for an automotive parts clerk for the Motor Vehicle Maintenance Department.

Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro and unanimously carried to approve personnel requisition for a Microfilm Technician for the Mohave County Clerk of Superior Court.

Motion was made by Supervisor Rose to deny and re-submit as part of budget for fiscal year 1987-88, request of Mohave County Treasurer Grace E. Marlow to hire the 3 part time temporary employees in that office. Motion was made by Supervisor Foster seconded by Supervisor Rose and unanimously carried to table until after the lunch break.

Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro to accept the Personnel report dated March 2, 1987 as follows:

NEW CLASSIFICATIONS

DEPT:	CLASSIFICATIONS:	RANGE:	MERIT RULE/ FLSA STATUS:	EFFECTIVE DATE:
0200	Special Projects Asst.	12	CN	02-02-87
0400	Communications Superv./ Deputy Clerk of Board	16	CN	03-02-87
1100	Computer Operator II	16	CN	02-16-87
6300	Senior Program Asst.	2	CN	01-01-87
6300	Senior Program Asst. (Regional)	3	CN	01-01-87
6300	Senior Support Aide	2	CN	01-01-87
6300	Senior Support Aide (Regional)	3	CN	01-01-87
6300	Nutrition Asst. Cook, (Regional)	5	CN	01-01-87
6300	Satellite Site Coord.	5	CN	01-01-87
6300	Senior Site Program Mgr., (Regional)	8	CN	01-01-87
9300	Intake Interviewer	1	CN	02-17-87

APPOINTMENTS: A. REGULAR

DEPT	EMPLOYEE:	CLASSIFICATION	RANGE:	RATE:	EFFECTIVE DATE:
5600	Graham, Ruth	Eligibility Interviewer	7B	5.36	02-11-87
3902	Henry, Donald	Correction Officer I	13B	7.14	01-27-87
5500	Baker, Blaine	Animal Control Officer	9B	5.88	01-01-87 (retro)
2200	Ainlay, Connie	Account Clerk	8B	5.61	02-11-87
5100	Heakem, Edward	Sanitarian Aide	9B	5.88	02-04-87
3902	Karsten, John	Corrections Officer I	13B	7.14	02-04-87
5500	Ruse, Jerry	Kennel Operator	5B	4.86	02-11-87
2550	Politi, Stephen	Attorney I	22D	12.11	02-25-87
9320	Wirt, Cynthia	Job Developer	14F	9.06	01-16-87

B. PROBATIONARY

1100	Heakem, Doreen	Computer Operator	13A	6.79	01-30-87
5100	Crandall, Lavada	Nurse's Aide	7A	5.09	01-29-87
2400	Collins, Beverely	Typist	6A	4.86	01-21-87
3902	McNally, Randall	Correction Officer Cadet	12A	6.48	01-26-87
4300	Dawley, Dave	Equipment Operator III	15A	7.48	02-02-87
8000	Napier, Dornthy	Library Aide	6A	4.86	02-06-87
0100	Payne, Hobey	Property Appraiser I	11A	6.16	02-10-87
1100	Harrison, Dennis	Computer Operator I	13A	6.79	02-16-87
4300	Zumwalt, Bennie	Equipment Operator II	15A	7.48	02-02-87
8000	Nelson, Jennifer	Library Page	Uncl	3.35	02-02-87
6300	Watkins, Warren	Senior Support Aide	3A	4.24	02-02-87
3901	Preston, Christine	Secretary I	9A	5.61	02-09-87
0200	Sampson, Mikki	Special Proj. Asser.	12D	7.48	02-02-87
0200	Bibich, Pamela	Legal Secretary II	11B	6.48	02-02-87
5100	Crandall, Dennis	Sanitarian Aide	9A	5.61	02-04-87
2200	McNally, Robert	Auto. Parke Clerk	10A	5.88	02-05-87

C. JTPA

9320	Reed, Dorothy	Job Developer	14C	7.84	02-10-87
9310	Haynes, Lisa	Clerical Trainee WEX	Uncl.	3.35	02-06-87

D. TEMPORARY

0200	Hullin, Jill	Legal Clerk I	5D	5.36	02-02-87
6312	Klaas, Ruth	Senior Support Aide	2A	4.04	01-21-87
2500	Pratt, Susan	Clerical Trainee	Uncl.	3.35	02-02-87
800	Defer, Millie	Technical Serv. Clerk	8B	5.61	02-02-87
6310	Todd, Sandra	Food Service Worker	2A	4.04	01-27-87

CHANGES

DEPT.	EMPLOYEE		EFFECTIVE DATE:
3100	Goodmiller, Dora	End TSA 10E, 7.14; to 10C, 6.48; Tax Clerk III	01-31-87
4300	Weyermiller, Fred	Reallocation, JA#87-001 12E, 7.84; to 14E, 8.63 Sign. Maint. Super.	01-19-87
2500	Poe, Donna	Sch. Sal. Adj. 22B, 11.00 to 22C 11.53; Public Fiduciary	02-05-87
6310	Foster, Virgil	Reallocation 5A, 4.64; Satellite Site Coordinator	01-01-87
6310	Weigel, Marner	Reallocation 2B, 4.24; to 3B, 4.43; Regional Senior Programs	01-01-87
6310	Rabal, Diana	Reallocation 5B, 4.86; to 5C, 5.09; Satellite Site Coordinator	01-01-87
6316	Tinney, Helen	Reallocation 5B, 4.86 to 5C, 5.09; Satellite Site Coordinator	01-01-87
6310	Weetrichar, Phyllis	Reallocation 2A, 4.04; to 3A, 4.24; Food Service Worker	01-01-87
6310	Juntenan, Iris	Reallocation 3B, 4.43; to 5C, 5.09; Nutrition Assistant Cook	01-01-87
6310	Marshon, Kennath	Reallocation 5D, 5.36 to 7D, 5.88 Nutrition Cook	01-01-87
6310	Crinklaw, Lois	Reallocation 7D, 5.88; to 9D, 6.16; Senior Regional Prog. Manager	01-01-87
6300	Abbot, Erika	Reallocation 7C, 5.61; to 9C, 6.16; Program Site Director	01-01-87
6312	Sidman, Mary Lou	Reallocation 5C, 5.09; to 6C, 5.36; Nutrition Cook	01-01-87
6312	Sanchez, Fern	Reallocation 3B, 4.43; to 4C, 4.86; Nutrition Assistant Cook	01-01-87
6316	Hicks, Lorena	Reallocation 2A, 4.04; Senior Program Assistant	01-01-87
6316	Ewton, Joyce	Reallocation 2A, 4.04; Senior Support Aide	01-01-87
6310	Fernsays, Ronald	Reallocation 1A, 3.86; to 2A 4.04; Senior Support Aide	01-01-87
6314	Heuck, Mary	Reallocation 7B, 5.36; to 8C, 5.88; Program Site Director	01-01-87
6314	Bauer, Charles	Reallocation 5C, 5.61; to 6B, 5.09; Nutrition Cook	01-01-87

5500	Russ, Jerry	Promotion from Kennel Operator, 5B, 4.86; to Animal Control Officer 9B, 5.88 02-16-87
5500	Hamilton, Douglas	JA# 87-002 Animal Control Officer, 9C, 6116; to Animal Control Supervisor 12C 7.14 02-16-87
8000	Corbett, Carolyn	Sch. Sal. Adj. 2YI, 6B, 5.09; to 6C, 5.36; Library Aide 03-02-87
1100	Sarno, Elizabeth	Sch. Sal. Adj. PA#87-004, 8B, 5.61; to 14B, 7.48; Computer Operator I02-16-87
3902	Moritz, Patricia	Sch. Sal. Adj. 2YI 13B, 7.13 to 13C, 7.48; Corrections Officer I 01-15-87
3500	Green, Valarie	Sch. Sal. Adj. 2YI 17B, 8.63; to 17C, 9.06; Deputy Probation Officer I 02-02-87
0200	Cook, Stanford	Sch. Sal. Adj. 17C, 9.06; to 17F; 10.48 Investigator 12-22-86
0200	Helmer, John	Sch. Sal. Adj. 20E 11.53 to 20C, 12.70, Special Project Coordinator 12-22-86
0200	Haskell, Marcella	Sch. Sal. Adj. 13C, 9.06; to 13I, $9.98 Secretary IIII2-22-86
4300	Valdez, Javier	Sch. Sal. Adj. 2YI 12B, 6.79; to 12C, 7.14; Equipment Operator II 03-02-87
2800	Moore, Patty	Sch. Sal. Adj. 2YI, 6B, 5.09; to 6C, 5.36; Microfilm Technician 03-16-87
1100	King, Elizabeth	Reallocation JA# 87-008, 16C, 8.63; to 16D, 9.06; Computer Operator II 02-16-87

SEPARATIONS: A. PROBATIONARY

DEPT.	EMPLOYEE	CLASSIFICATION:	REASON:	EFFECTIVE DATE:
1704	McBride, Ruth	Justice Court Clerk II	Dismissal	01-30-87
3902	McNally, Randall	Corrections Officer Cadet	Resignation	02-02-87
1100	Meakem, Doreen	Computer Operator	Resignation	02-02-87
6310	Fernanys, Ronald	Senior Support Aide	Resignation	02-17-87

B. PERMANENT

5400	Solano, Catherine	Eligibility Interviewer I	Resignation	02-06-87
5100	Clark, John	Sanitarian	Retired	01-31-87
1500	Chapman, Robert	Maintenance Worker III	Retired	02-28-87
3901	Garibay, Steven	Deputy Sheriff	Deceased (work related)	02-11-87

C. TEMPORARY

3901	Cavoy, Sandra	Civil Clerk	Resignation	01-19-87
3100	Pratt, Susan	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Mershun, Mar	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Gatliff, Debra	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Valdez, Dolores	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Bigler, Margie	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Coffee, Patricia	Tax Clerk Assistant	End of Appt.	01-31-87
3100	Day, Phyllis Tax	Clerk Assistant	End of Appt.	01-31-87
3100	Johnson, Jennifer	Tax Clerk Assistant	End of Appt.	01-31-87
8000	Nelson, Melissa	Library Page	Resignation	01-31-87
3200	Barnes, Betty	Data Entry Operator	End of Appt.	12-01-86
5500	Marcum, Jud	Animal Control Clerk	End of Appt.	08-29-86
2300	Pemberton, Jaime	Clerical Trainee	End of Appt.	02-18-87
8200	Finley, Rocky	Park Summer Intern	End of Appt.	02-07-87

The following votes were recorded on the motion: Supervisor Roper-Yes, Supervisor D'Alessandro-Yes, Supervisor Rose-No, Supervisor Foster-No, Chairman Holt-Yes. Motion carried by majority vote. Supervisor Foster expressed concern in that the Board of Supervisors does not have control over reallocation of employees and format of report in regards to how many employees had been allocated and how many are presently employed by each department.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to approve request made by Doug Hamilton, Animal Control Supervisor - Mohave County Sheriff's Office to adopt previously submitted revised Animal Control fees.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Rose and unanimously carried to remove from the table discussion and possible action regarding Mohave Co. Treasurer's request for personnel. Dave Chevalier Assistant to the County Treasurer, as well as Grace Marlow, Mohave Co. Treasurer was now in attendance to answer questions the Board may have in this regard. Motion was made by Supervisor Foster to suspend Mohave County Personnel rules and allow the three part-time employees to remain as temporary until the end of the fiscal year. Point of Order was called by Supervisor D'Alessandro in that the Counties fiscal year actually ends June 30. Motion was seconded by Supervisor Rose and discussion ensued. Second to motion was withdrawn and motion was seconded by Supervisor D'Alessandro and the following votes were recorded on the motion: Supervisor Foster-Yes, Supervisor D'Alessandro-Yes, Supervisor Roper-Yes, Supervisor Rose-Abstain, Chairman Holt-Yes. Motion carried by majority vote.

Motion was made by Supervisor Roper, seconded by Supervisor Foster to accept the Treasurer's report for the month of February, 1987 in the amount of $24,526,519.74. The following votes were recorded on the motion: Supervisor Roper-Yes, Supervisor Foster-Yes, Supervisor D'Alessandro-Yes, Supervisor Rose-Abstain, Chairman Holt-Yes. Motion carried by majority vote.

Dave Chevalier Assistant to the County Treasurer, as well as Grace Marlow, Mohave Co Treasurer, explained what had transpired with respect to John McCormick's complain regarding late deposit of tax checks as continued from March 2, 1987 meeting. A brie discussion ensued in regards to the advisability of making deposits on an "as received basis rather than delay to assure correct amount and so on. As this was discussion only no Board of Supervisors action was taken in this regard.

The meeting was recessed until 1:30 P.M.

The meeting was reconvened at approximately 1:30 P.M. The meeting of the Mohave Count Board of Supervisors was recessed and reconvened as the Board of Directors of the Mohave County Flood Control District. Chairman Holt introduced the following Councilmen from Lake Havasu City, Marcus D. Bannerman, Peter Charno, Davi Gabler and Mayor Robert Ramsdell as well as City Engineer Peter D. Manderfield, Cit Manager Jim Casey and Executive Director of the Lake Havasu City Chamber of Commerc John Parrott. Mayor Robert Ramsdell read a prepared statement in regards to request o the Board to reconsider allocation of Flood Control District Project monies to Lake Havas City. Motion was made by Director Rose, seconded by Director Roper to reallocate at leas $175,000.00 and up to $195,000.00 depending on availability of funds for Flood Contro Projects to Lake Havasu City. The following votes were recorded on the motion: Directo Rose-Yes, Supervisor Roper-Yes, Director Foster-No, Director D'Alessandro-No, Chairma Holt-Yes. Motion carried by majority vote. There being no further business to come befor the Board of Directors of the Mohave County Flood Control District the meeting wa adjourned and reconvened as the Board of Supervisors.

The meeting of the Board of Supervisors was recessed and reconvened as the Mohave Count Board of Equalization. Kathe Baker Mohave County Assessor as well as Ken Kingman from th Assessor's office presented comparables in regards to the following petitions as acted o by the Board of Supervisors:

1) George L. Grim - Parcel 324-10-508 - Motion was made by Supervisor Foster, seconded by Supervisor Roper and unanimously carried to uphold Assessor's decision as reasonable and make No Change.

2) Lawyers Title of Arizona - Parcel 309-66-003A - Motion was made by Supervisor Roper, seconded by Supervisor Foster and unanimously carried to postpone action on this petition to April 6, 1987.

3) Lawyers Title of Arizona - Parcel 309-66-003B - Motion was made by Supervisor Roper, seconded by Supervisor Foster and unanimously carried to postpone action on this petition to April 6, 1987.

4) Robert & Virginia Queen - Parcel 214-33-346 - Motion was made by Supervisor D'Alessandro, seconded by Supervisor Roper not to accept Assessor's decision and increase Full Cash Value to $10,000.00. Discussion ensued in this regard and second to motion was withdrawn. There being no second, motion died. Motion was made by Supervisor Rose, seconded by Supervisor Roper to uphold Assessor's decision as reasonable and make No Change. The following votes were recorded on the motion: Supervisor Rose-Yes, Supervisor Roper-Yes, Supervisor Foster-Yes, Supervisor D'Alessandro-No, Chairman Holt-Yes. Motion carried by majority vote.

5) Middle Colconda Mining (Elsie L. Smith) - Parcel 309-04-002 - Motion was made by Supervisor Roper, seconded by Supervisor Foster and unanimously carried to uphold Assessor's decision as reasonable and make No Change.

6) David & Argyra Burkett - Parcel 104-47-072 - Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carried to uphold Assessor's decision as reasonable and make No Change.

7) James & Dorothy Hayden - Parcel 324-09-359 - Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carried to uphold Assessor's decision as reasonable and make No Change.

8) Emanuel & Bertha Cardy - Parcel 324-09-291 A - Motion was made by Supervisor Rose to reduce Full Cash Value to $36,436.00 and Limited Value to $35,082.00. Motion was seconded by Supervisor Roper. Motion was made by Supervisor Foster to postpone action until the next meeting. Discussion ensued and motion to postpone was withdrawn. A five minute recess was called by the Chairman.

The meeting was reconvened. Motion was made to amend motion to reduce value when property owner had lot line abandoned through the Planning and Zoning Department. Motion was seconded by Supervisor Roper. Discussion once again and motion to amend and second was withdrawn. The following votes were recorded on the main motion: Supervisor Roper-Yes, Supervisor Rose-Yes, Supervisor Foster-No, Supervisor D'Alessandro-No, Chairman Holt-Yes. Main motion carried by majority vote.

There being no further business to come before the Board of Equalization the meeting was adjourned and reconvened as the Board of Supervisors.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Roper and unanimously carried to award Bid No. 417 to Seitz for IBM typewriters and permission granted to Jeff Johnson, Financial Services Administrator, to negotiate with Mechatronics for Swinte typewriter maintenance.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Roper and unanimously carried to award Bid No. 418 Commercial Printing as follows:

Chattenge Lithoprint, Inc. - 1) #10 regular and window envelopes
2) Index stock
3) 20# Bond forms
4) NCR forms

Jet Printing - 1) Letterhead Stationary 4 color
2) Business Cards, 4 color
3) Business Cards, black and white

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to grant permission to Bob Riley, Mohave County Airport Authority Director to proceed with Public Notice of Public Auction at 11:00 am on May 6, 1987- Parcel IX D - Kingman Airport.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to adopt Board of Supervisors Resolution No. 87-13 effectively approving compliance regarding land purchased by Kingman Investment Properties and Kingman Airport Industrial Park.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Rose and unanimously carried to remove from the table - Mohave Valley Landfill as tabled from earlier in the meeting. Public Works Director Dave Grimes outlined for the Board that department's recommendation concerning the El Rodeo Road site as the most viable landfill site in the Mohave Valley area. Jay Mayhew, Pebble Lake resident requested the Board to consider a site in Section 32 one half mile north of Boundary Cone Road. Motion was made by Supervisor Rose, seconded by Supervisor Foster to request that staff investigate the proposed landfill site arequested by Mr. Mayhew in Section 32. Discussion continued and motion withdrawn. Motion was made by Supervisor Rose, seconded by Supervisor Roper to designate the Boundary Cone landfill site as primary landfill site for the Mohave Valley area. A seven minute recess was called by the Chairman. The meeting was reconvened and second to the motion was withdrawn and motion died for lack of a second. Motion was made by Supervisor Roper to establish the El Rodeo landfill site as the primary site, Boundary Cone site second, and pursue any other alternatives. Subsidiary motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to acknowledge receipt of petitions containing 375 signatures from Richard Hainey in protest of the El Rodeo landfill site. Jeannie Black, Clark Ft. Mojave Mesa Fire Board expressed concern in regards to childrens safety as El Rodeo Road was a highly traveled route by the school buses in the area. The following votes were recorded on the main motion: Supervisor Roper-Yes, Supervisor Foster-Yes, Supervisor D'Alessandro-Yes, Supervisor Rose-No, Chairman Holt-Yes. Motion carried by majority vote.

Motion was made by Supervisor Roper, seconded by Supervisor Rose to allow the Mohave County Treasurer to make correction if she was inclined, in regards to Steven Muir's request for plat change and tax abatement - Pioneer Valley subdivision (lots 1-65) (as continued from March 2, 1987). Supervisor Rose requested that Supervisor Roper amend his motion to allow Treasurer to abate to 50% or amount owed in Certificates of Purchase in this regard. Motion was so amended and the following votes were recorded on the motion: Supervisor Roper-Yes, Supervisor Rose-Yes, Supervisor D'Alessandro-No, Supervisor Foster-No, Chairman Holt-Yes. Motion carried by majority vote.

Motion was made by Supervisor Foster seconded by Supervisor D'Alessandro and unanimously carried to remove from the table discussion in regards to the closing of Silver Creek landfill. Motion was made by Supervisor Roper, seconded by Supervisor Foster to close Silver Creek May 1, 1987 with option to Bullhead City to operate to extend life if they desire. Motion was made by Supervisor Rose to amend to maintain the Silver Creek landfill as long as possible and for the Public Works Department to review and report to the Board what the increasing fees would do in this regard. Chairman Holt declared motion Out of Order as motion was contrary to main motion. The following votes were recorded on the main motion as un-amended: Supervisor Roper-Yes, Supervisor Foster-Yes, Supervisor D'Alessandro-Yes, Supervisor Rose-No, Chairman Holt-Yes. Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro, and unanimously carried if legally sound, to leave the liquid dumping of septic waste open.

Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carried to postpone to April 6, 1987, discussion and possible action Re: Property deeded to Mohave County from Stephen Lee (as continued from March 2, 1987 meeting).

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Foster and unanimously carried to refer to the County Attorney for review and recommendation: Board policy to require approval of the Chairman and/or presence of the Chairman or Vice Chairman or designee and law enforcement personnel to attend public meetings were a member of County staff is required to attend.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to instruct the Chairman to send a letter of support of the "Observation Point" project.

The meeting of the Board of Supervisors was recessed and reconvened as the Board of Directors of the Horizon Six Improvement District. Motion was made by Director Rose, seconded by Director Foster to approve, contingent upon approval and review by the County Attorney the Horizon Six Improvement District Association bylaws. There being no further business to come before the Board of Directors of the Horizon Six Improvement District the meeting was adjourned and reconvened as the Board of Supervisors.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to allow subject to concurrence of the judge, to give old Mohave County court records stored at the Industrial Park Building to the Mohave County Museum.

Motion was made by Supervisor Foster, to adopt the policy that all non-exempt Mohave County vehicles display a 14" inch decal. There being no second to the motion, motion died.

~~Motion was made by Supervisor Foster, seconded by Supervisor Roper and unanimously carried~~ to acknowledge receipt and postpone until the next meeting: Appointment of trustee t Mohave County Self Insurance Retention Fund, as requested by Bill McDonald Mohave Count Risk Manager/Deputy County Attorney.

Motion was made by Supervisor Foster, seconded by Supervisor Rose and unanimously carrie to postpone to the next meeting: Qualification of personnel for certification as drive trainers for the Mohave County Driving Program, as requested by Bill McDonald Mohave Count Risk Manager/Deputy County Attorney.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried t grant permission to Chairman Holt to execute Purchase Agreement between Mohave County an Dunton and Dunton, in regards to the First and Beale Street property known as the Mohav County Extension Building.

Motion was made by Supervisor D'Alessandro, seconded by Supervisor Rose and unanimousl carried to approve lease between Mohave County and Arizona Dept. of Transportation RE Bullhead City Vehicle Registration Office, as recommended by Bill Bixby, Mohave Count Manager.

Motion was made by Supervisor Rose, seconded by Supervisor Foster and unanimously carrie to postpone to the next meeting: Joining the Lower Colorado River RC&D as a payin sponsor.

Motion was made by Supervisor Rose, seconded by Supervisor D'Alessandro and unanimousl carried to appoint as Mohave County's law enforcement appointment to the Colorado Rive Floodway Protection Act - Task Force, Chief Deputy Dave Mullin, Mohave County Sheriff' Office.

Mohave County Elections Director, Paul Post, as well as Jeff Johnson, Financial Service Director outlined briefly for the Board, time table and staff recommendations in regards t budget override question. Sheriff Joe Bonzelet expressed on behalf of the Sheriff's Dept support in this regard. Motion was made by Supervisor Roper, seconded by Supervisor Foste and unanimously carried to place question 1 as follows on the 3 part ballot that would b voted on by the public in Mohave County:

Question - (1) <u>Law Enforcement and Criminal Justice:</u>

(Sheriff, County Attorney, Superior Court, Clerk of Courts, Justice Courts):

1st Year Tax - 1987 - $1,547,800
2nd Year Tax - 1988 - $1,702,580
3rd Year Tax - 1989 - $1,872,838

Motion was made by Supervisor Roper, seconded by Supervisor Foster and unanimously carried to lower the general fund by $36,000.00 and increase Treasurer's to $150,000.00 the firs year. Motion was made by Supervisor Rose to include a 4 1/2 growth and 4 1/2 inflation rate equalling 9% growth rate on those 2 years preceding. There being no second, motio died. Motion was made by Supervisor D'Alessandro, seconded by Supervisor Foster an unanimously carried to place question 2 and 3 as follows on the 3 part ballot (as well a Question 1 as outlined previously) that would be voted on by the public in Mohave County, if a Boar Resolution was adopted calling for the election.

Question - (2)

(Assessor, Treasurer, Recorder Operations):

1st Year Tax - 1987 - $365,128
2nd Year Tax - 1988 - $401,641
3rd Year Tax - 1989 - $441,805

Question - (3)

(General Government Operations):

1st Year Tax - 1987 - $525,041
2nd Year Tax - 1988 - $557,545
3rd Year Tax - 1989 - $635,300

Discussion also ensued in regards to being more specific in the area of the General Government Operations Questions to the public outlining i.e.: Sanitary Landfills, pick-up sites maintenance on building renovations of the old jail etc.

A five minute break was called by the Chairman.

Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro and unanimously carried to approve expenditure from Capital Improvement funds $7,500.00 to remodel a room in the old jail for micro graphics for Clerk of Superior Court and County Recorder.

Motion was made by Supervisor Roper, seconded by Supervisor Rose and unanimously carried to approve transfer charges to the 0400 General Account in the amount of $1,400.24 as requested by Chairman Holt.

Motion was made by Supervisor Roper, seconded by Supervisor D'Alessandro and unanimousl carried to approve the following consent agenda items:

1. J.T.P.A. Office space lease in Bullhead City.

2. Contract with Mohave County Board of Supervisors and Mohave County Schoo Superintendent office to hold a Special Override Election to be held in the Lak Havasu Unified School District No. 1 on May 19, 1987.

3. Notary Bond applications for the following: Rachelle Pyans, Valerie L. Foster Greg J. McGill, Charlene M. Ware, Jan Bonebrake, Thomas M. Threlkeld, John C King, Katheryn M. Meals, S. Osborn, Thomas H. Simsom, Susan A. Young, Michael P Lee, Sherry Moore, Rhonda O. Conwell, Donna P. Miley.

4. Acceptance of Dedication from Marion and Janet Jennings - Aztec Road Section 24 T21N, R18W.

5. Authorization to County Treasurer, Grace E. Marlow to issue new check in th amount of $33,60 dated June 25, 1984.

6. Special Event Liquor License application for Topock/Golden Shores Chamber o Commerce, to be held 12950 Oatman Road, Golden Shores Arizona on May 2, 1987.

7. Extension of Premises/Patio Permit Liquor License to Snobird Truck Stop and Store I-40 Exit 64, Kingman Arizona.

8. Special Event Liquor License application for Emergency Services Volunteers o Meadview, to be held at the Meadview Civic Association, Meadview Arizona on Ma 23, 1987.

Supervisor Foster advised, for information only that she had appointed Bill Talbard a Golden Valley Park Advisory Board Member. No action was taken by the Board in thi regard.

Motion was made by Supervisor Rose, seconded by Supervisor Foster and unanimously carrie to appoint Larry Lively as Planning and Zoning Commissioner District 2.

Supervisor Rose advised that he was not ready at this time to make his appointment to th Mohave County Merit Commission for District 2 and recommended that this be continued. There being no objection, this was continued.

Motion was made by Supervisor Roper seconded by Supervisor D'Alessandro and unanimously carried to adopt Resolution No. 87-14 as corrected and presented for adopted by Jef Johnson Mohave County Financial Services Election effectively outlining purposes of the election to be held May 19, 1987 in which the voters of Mohav County would be asked to approve a Budget Override for the next three years which woul amount to .5539 secondary tax rate for all three questions if approved by the voters.

There being no further business to come before the Board of Supervisors the meeting wa adjourned at 8:59 PM.

ATTEST: MOHAVE COUNTY BOARD OF SUPERVISORS

Pat Chastain, Clerk Jerry A. Holt, Chairman

Appendix C-8

Restrictive Covenant

ARIZONA DEPARTMENT OF
ENVIRONMENTAL QUALITY

FEB 11 1994

RECEIVED
SOLID WASTE SECTION
OFFICE OF WASTE PROGRAM

RESTRICTIVE COVENANT

Mohave Valley Landfill

The undersigned owner of the real property described as the NE ¼ of Section 21, Township 19 North, Range 21 West, Gila and Salt River Base and Meridian, Mohave County, Arizona (the "Property") as shown on Exhibit "A", hereby acknowledge that the Property has been and will be used as a solid waste landfill. Pursuant to A.R.S. 49-771, Mohave County hereby covenants and agrees that the County, our agents, employees, heirs, successors, lessees, executors, administrators, or assigns, will not engage in filling, grading, excavating, drilling or mining the property during the operating life of the solid waste landfill, or after its closure, without the approval of the Director of the Arizona Department of Environmental Quality, or any successor official or agency as provided by law, unless provided for in the approved facility closure or postclosure plan.

This agreement constitutes a mutual covenant running with the land and all successors in interest, heirs, lessees, executors, administrators, or assigns shall be deemed parties to this agreement to the same effect as the original signers, and all subsequent deeds or other instruments conveying any title to the Property or any portion thereof shall be made expressly subject to this restrictive covenant; provided, however, that this agreement shall automatically terminate if A.R.S. 49-771 is revoked or revised in such a manner as to eliminate the restrictive covenant requirement.

INDEXED
9630264 BK 2741 PG 323
OFFICIAL RECORDS OF MOHAVE COUNTY,
JOAN MC CALL, MOHAVE COUNTY RECORD
06/03/96 04:03P PAGE 1 OF 3
MOHAVE COUNTY BOARD OF SUPERVISORS
RECORDING FEE 0.00

MICROFILMED

IN WITNESS WHEREOF, this agreement has been executed on the date indicated below.

MOHAVE COUNTY, ARIZONA

BY: Joan C. Ward (Signature) NAME: Joan C. Waed (Printed)

TITLE: Chairman Board of Supervisors DATE: 2-1-94

4. The foregoing instrument was acknowledged before me this 1st day of Feb, 1994, by Joan C. Ward the Chairman of the Mohave County Board of Supervisors, on behalf of the Mohave County Board of Supervisors.

Notary Public

My Commission Expires:

My Commission Expires Feb. 5, 1997

The foregoing restrictive covenant is accepted this 21st day of May, 1996.

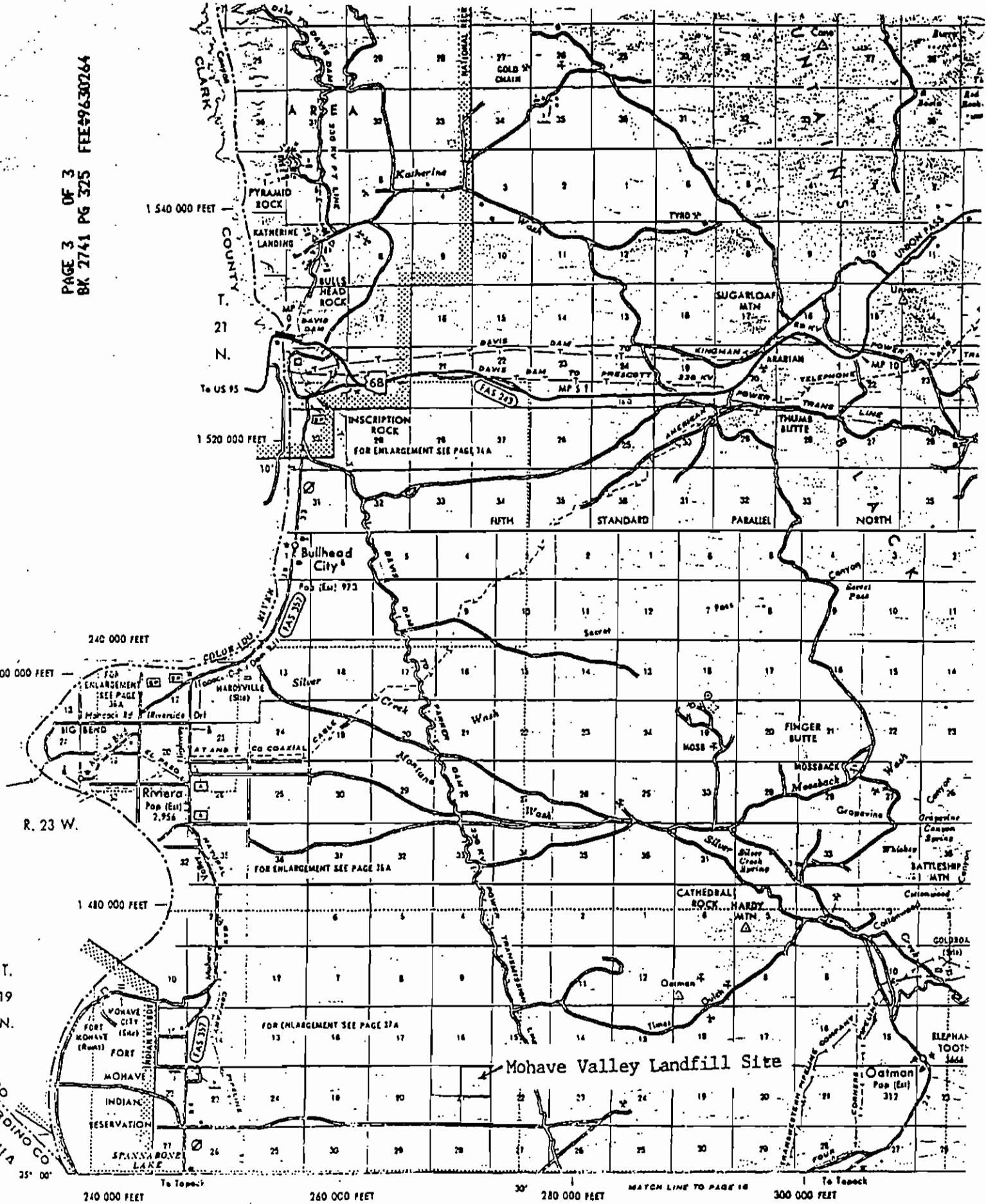
Ethel De Marr
Director
Arizona Department
Of Environmental Quality

My Commission Expires:

My Commission Expires Apr. 1, 1953

Notary Public

PAGE 3 OF 3
BK 2741 PG 325 FEE#96330264


Mohave Valley Landfill Site
Bullhead City
Pop (Est) 973
Riviera
Pop (Est) 2,956
Oatman
Pop (Est) 312
Katherine
Silver Creek
Moss
Finger Butte
Mossback
Grapevine
Cathedral Rock
Hardy Mtn
Battleship Mtn
Sugarloaf Mtn
Thumbs Butte
Arabian
Union
Fort Mohave Indian Reservation
Spanish Bone Lake
Inscription Rock
Pyramid Rock
Bullhead Rock
Katherine Landing
Davis Dam
Davis Dam Rd
Davis Dam Line
Davis Dam Transmission Line
Davis Dam Telephone Line
Davis Dam Power Line
Kingman Prescott 230 KV
Arabian Power Line
Arabian Telephone Line
Arabian Trans Line
Union Pass
Union Pass Rd
Boundary Cone
Gold Mountain
National Wash
Tyro Wash
Silver Creek
Silver Creek Spring
Grapevine Canyon Spring
Whiskey Canyon
Colorado River
Havasu Lake
Parker Dam
Parker Dam Rd
Parker Dam Power Line
Parker Dam Transmission Line
Parker Dam Telephone Line
Parker Dam Trans Line
Mohave Valley
Mohave City (Site)
Fort Mohave (Ruins)
Marysville (Site)
Goldroad (Site)
Elephant Tooth
Havasu Pipeline Company
Four Corners
Cable Line
Cable Line Rd
Oatman Rd
Oatman Wash
Oatman Telephone Line
Oatman Trans Line
Oatman Power Line
Oatman Pipeline
Oatman Pipeline Rd
Oatman Pipeline Trans Line
Oatman Pipeline Telephone Line
Oatman Pipeline Power Line
Mohave Valley Rd
Mohave Valley Trans Line
Mohave Valley Telephone Line
Mohave Valley Power Line
Mohave Valley Pipeline
Mohave Valley Pipeline Rd
Mohave Valley Pipeline Trans Line
Mohave Valley Pipeline Telephone Line
Mohave Valley Pipeline Power Line
Mohave Valley Pipeline Company
Mohave Valley Pipeline Company Rd
Mohave Valley Pipeline Company Trans Line
Mohave Valley Pipeline Company Telephone Line
Mohave Valley Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Rd
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Trans Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Telephone Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Power Line
Mohave Valley Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline Company Pipeline

Appendix C-9

Archaeological Clearance

ARIZONA STATE MUSEUM

THE UNIVERSITY OF ARIZONA

TUCSON, ARIZONA 85721

September 30, 1987

Mr. Lee Jaeger
Arizona State Land Department
1616 West Adams
Phoenix, Arizona 85007

RE: Application 54-93954

Dear Lee:

The Archaeology Division of the Arizona State Museum has conducted an archaeological field inspection of State Trust Lands cited in Application 54-93954 (NE4 Sec. 21, T.19N R.21W). This survey was done on September 15 and 16, 1987 by myself and James Bayman, another Museum employee. We walked 26 north/south transects, spaced about 100 feet apart, to cover the 40 acre subject parcel.

Two circular rock alignments were the only archaeological remains encountered during the survey. These features are situated on pebble pavements overlooking the major drainage that passes through the middle of the subject parcel. Both of the rock rings measure about three feet in diameter, and are made of cobbles measuring up to 10 inches long. Although no prehistoric artifacts were found in association with either feature, the absence of recent trash and the geologic setting (partially embedded in the pebble pavement) strongly suggest that the rock rings are prehistoric.

The locations of the features were plotted as accurately as possible on a 7.5' topographic map, and a drawing of each rock ring was made. Because further study of these features is unlikely to yield information beyond that which was recorded during the survey, archaeological clearance is recommended for Application 54-93954.

Sincerely,

Kenneth Rozen
Arch. Spec. II

KR:ajc

Appendix C-10

Zoning Documents

MOHAVE COUNTY PLANNING & ZONING DEPARTMENT

P.O. Box 7000 ✦ Kingman, Arizona 86402-7000
3675 E. Highway 66, Suite A ✦ (520) 757-0903 ✦ FAX 757-3577
1222 East Hancock Road ✦ Bullhead City, Arizona 86442 ✦ (520) 758-0707 ✦ FAX 758-0721

'ISTINE BALLARD
DIRECTOR

June 18, 1996

Maribeth Greenslade
Solid Waste Plan Review Unit
Waste Programs Division
Arizona Department of Environmental Quality
3033 North Central Avenue
Phoenix, AZ 85012

Re: Mohave County Cerbat Landfill
Proposed Substantial Change to Approved Solid Waste Facility Plan

Dear Ms. Greenslade:

The Cerbat Landfill site is zoned Agricultural-Residential which does not allow landfills. However, the County considers county landfills an essential government function and, therefore, immune from local zoning regulations. According to Deputy County Attorney Allan Perkins, two Arizona Court Cases support this opinion: Tovrea v. Trails End Improvements Ass'n., 130 Ariz. 108, 634 P.2d 396 (App. 1981), and City of Scottsdate v. Municipal Court of City of Tempe, 90 Ariz 393, 368 P.2d 637 (1962).

I have attached Mr. Perkins' opinion for your use. Should you have any questions, please call me.

Sincerely,

Christine Ballard

Christine Ballard
Director

CB:sd
Attach.

cc: Michael Hendrix, P.E.
Lance Payette, Deputy County Attorney
Mercedes Hartzog, Solid Waste Plan Review Unit
Sally Bender, County Supervisors Association

MOHAVE COUNTY ATTORNEY

P.O. BOX 7000 315 NORTH 4TH STREET • KINGMAN • ARIZONA 86402-7000
TELEPHONE (602) 753-0719 FAX (602) 753-2669
1130 HANCOCK ROAD · BULLHEAD CITY, ARIZONA 86442
TELEPHONE (602) 758-0727 FAX (602) 758-0728

WILLIAM J. EKSTROM, JR.
County Attorney

JAMES J. ZACK
Chief Deputy

MEMORANDUM

To: Richard Skalicky, Director, Public Works Department

From: C. Allan Perkins, Deputy County Attorney

Date: December 20, 1994

Re: Expansion of Sanitary Landfill in AR (Agricultural Residential) Zone

Following our conversation of December 19, 1994, regarding the Cerbat Landfill, I reviewed the relevant case law covering immunity for governmental entities from local zoning regulations. The general rule appears to be that governmental entities are immune from local zoning regulations to the extent that they are engaged in a "governmental" purpose, but are not immune when engaged in "proprietary" purposes. Tovrea v. Trails End Improvement Ass'n., 130 Ariz. 108, 634 P.2d 396 (App. 1981), Attorney General Opinion, No. 71-26-L, October, 27, 1971.

The important question here, then, is whether operation and /or expansion of the Cerbat Landfill may properly be considered a governmental purpose of Mohave County. In City of Scottsdale v. Municipal Court of City of Tempe, the court held that operation of a sewage disposal plant was a governmental purpose. 90 Ariz. 393; 368 P.2d 637 (1962). By analogy, operation of a landfill ought to also qualify as a governmental purpose, since it also involves disposal of waste, an activity largely carried on by local government. A.R.S. §49-741, in fact, mandates that Mohave County provide facilities for disposal of solid waste.

Since the county is providing a service that it is required to do, and is further providing a service similar to one that has already been declared a governmental purpose, it is my opinion that the operation and/or expansion of the Cerbat Landfill is a valid governmental purpose and not a proprietary activity. For that reason, I believe that Mohave County is immune from its own zoning regulations in this particular instance.

cc: Christine Ballard, Director, Planning and Zoning

Appendix C-11

Endangered Species Clearance

BRUCE BABBITT, Governor

Commissioners:
W. LINN MONTGOMERY, Flagstaff, Chairman
FRED S. BAKER, Elgin
LARRY D. ADAMS, Bullhead City
FRANCES W. WERNER, Tucson
THOMAS G. WOODS, JR., Phoenix

STOW

Assistant Director, Services
ROGER J. GRUENEWALD

Assistant Director, Operations
DANE L. SHROUFE

ARIZONA GAME & FISH DEPARTMENT

2222 West Greenway Road Phoenix, Arizona 85023 942-3000

February 18, 1987

Mr. Michael P. Hendrix
Assistant County Engineer
Mohave County Public Works
119 E. Andy Devine Ave.
Kingman, Arizona 86401

Dear Mr. Hendrix:

Per your request of February 6, 1987, regarding possible impacts to wildlife as a result of the County's potential landfill within the SE 1/4 of Section 21, Township 19 North, Range 21 West, and your request for information about the alleged golden eagle nest at the Bureau of Reclamation rock quarry, the following comments are provided.

Regarding the Bureau of Reclamation rock quarry east of the landfill site and the environmental restrictions applied to this activity, we have learned the following:

- The alleged golden eagle nest at the quarry site was found to be a nest occupied by a red-tailed hawk by a Bureau of Land Management biologist while conducting an environmental review of the project site (recall that BLM was the permitting-agency for this project). For this reason, no further restrictions were applied to the Bureau of Reclamation permit.

- The only other restriction we learned of was that the road (where it occurred on BLM lands) was to be reclaimed upon completion of the quarry activity. We learned of this restriction from the U.S. Fish and Wildlife Service.

An Equal Opportunity Agency

Regarding the County's potential commercial lease with the Arizona State Land Department for a landfill within Section 21, Township 19 North, Range 21 West, we do not anticipate that any significant adverse impacts to wildlife will occur as a result of a landfill at this site.

Thank you for the opportunity to comment on this proposal.

Sincerely,

Duane L. Shroufe, Acting Director

Robert K. Weaver
Habitat Evaluation Coordinator
Planning and Evaluation Branch

RKW:SKF:fr

cc: Wes Martin, Supervisor, Kingman Regional Office
Al Dickie, Commercial Leasing Manager, ASLD

Appendix C-12

ADEQ 401 Permit Documentation

VECTOR
ENGINEERING, INC.

August 25, 1997
Project 965014.02(9)

Ms. Dorothy Hains
Water Quality Division
Arizona Department of Environmental Quality
3033 North Central Avenue
Phoenix, Arizona 85012

Via Priority Mail

Re: Arizona 401 Certification, Mohave Valley Sanitary Landfill

Dear Ms. Hains:

On behalf of Mesa Disposal, Inc. and the County of Mohave, Vector Engineering, Inc. is pleased to submit the enclosed response to your request for additional information pertaining to the 401 certification application for the Mohave Valley Sanitary Landfill. A copy of the request, issued on ADEQ form 404-001, is included following this cover letter. The following information has been compiled primarily from pre-existing information that was developed for the Solid Waste Facilities Permit Application. This package is forwarded for your review and approval; it has been prepared in response to your evaluation of the application that was submitted to ADEQ in March, 1997.

If you have any questions or comments regarding the contents of the following document, please contact either Mr. John Mieding at Mesa Disposal, Inc., (520) 758-0000, or the undersigned at (702) 883-7065. Thank you for your attention in this matter.

Sincerely,

Vector Engineering, Inc.

FOR

Evan Nikirk, P.E.
Project Manager

cc: John P. Mieding, P.E., Mesa Disposal, Inc.
Michael P. Hendrix, P.E., Mohave County Public Works Department

n:\965014.02\letters\401respns.doc

1601 Fairview Ave., Suite H • Carson City, NV 89701 • (702) 883-7065 Fax: (702) 883-7161
GRASS VALLEY, CA • MENDOZA & BUEUOS AIRES, ARGENTINA • SANTIAGO, CHILE

REQUEST FOR INFORMATION FOR STATE WATER QUALITY CERTIFICATION REVIEW
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY, ENGINEERING REVIEW DESK
3033 NORTH CENTRAL AVENUE, PHOENIX, ARIZONA 85012

Prepared By/Date DH 5/9/97 ADEQ 401/404 File No. 227.801
Project Name Mohave Valley Landfill
Application/Public Notice No. _____
Type of Permit/Application (check one):
☐ Individual §404 Permit ☐ Nationwide Permit (specify) NWP-____/ PDN _____
☒ Other (specify) To be notified by COE

	APPLICANT/PROJECT DESIGN CONTACT	ADEQ STAFF CONTACT
NAME	John Miedlinger / Mesa Disposal Inc.	Dorothy Hains
ADDRESS	967 Hancock Rd. Ste. #141	
	Bullhead City, AZ 86442	
PHONE	(520) 758-0800	(602) 207 4502

DEQ USE

PLEASE PROVIDE SHADED/CIRCLED/CHECKED ITEMS TO THE ADEQ STAFF CONTACT

(1.) Copy of Application to Corps of Engineers or other Federal Agency (if none, please submit items 2 and 3).

2. Project Description (including Project Name, Applicant's Name/Address/Phone, Project Purpose, Areas of Disturbance and Watercourse Name).

3. Project Location (latitude/longitude and legal description (T/R/Sec.) at center of project area).

(4.) Elevations in Feet Above MSL of work area, channel bottom and estimated high water table at site(s) before, during and after project activity.

(5.) Fill Material Description (gradation, mineralization, potential pollutants), source location (T/R/Sec) and past land use(s) at source site.

6. Site revegetation/reclamation plan, including both project area and material source site.

7. USGS topographic or other contour maps of the project area.

8. Photographs of proposed project area: ☐ Aerial photos ☐ Ground level photos

(9.) Reports:
☐ Environmental Assessment/Impact ☐ Geohydrologic/Soils ☒ Drainage Plan including hydrological & soil info.
☐ Mitigation Plan ☐ Operation and Maintenance Plan ☐ Site Selection
☐ Alternatives Analysis ☐ Site Reclamation/Closure Plan ☒ Construction plans and specs for areas within watercourse(s). and Waste Disposal plans for areas within 404 jx

10. Detailed design plans with contour lines at intervals of not more than _____ feet and floodplains at recurrence intervals specified in Item 11. Show locations of major features (haul roads, equipment storage, mitigation areas, permanent construction, other areas of disturbances, etc.)

(11.) Floodplain analyses and delineations for the following recurrence intervals: FEMA MAPPING years.

12. Sediment transport analyses for flow events with the following recurrence intervals: _____ _____ _____ years.

(13.) Applicant's Response to the Arizona Department of Environmental Quality Policy for Protecting Water Quality During Facility Construction. Please fill out original ADEQ Form 404-003. Be sure to sign and date the form before submitting to ADEQ.

14. Other measures/practices that will be implemented to achieve State Water Quality Standards (A.A.C. R18-11-1).

(15.) Impact analysis on:
☒ surface water quality ☐ water table elevations ☒ channel morphology
☒ upstream conditions ☐ channel elevations ☒ compliance with AAC R18-11-107
☒ downstream conditions ☐ riparian vegetation ☐ -108, -109.

16. Applicant's Letter of Certification (Please fill out and submit original ADEQ form 404-015. Per instructions).

17. Other pertinent information, see Attachment(s).

19. Site visiting will be scheduled later.
18. COE information may be needed after review of required documents

ATTACHMENTS: ☒ ADEQ Form 404-003 (original) ☐ ADEQ Form 404-004 ☐ ADEQ Form 404-015 (original) ☐ ADEQ Form 404-033(original)
☐ Executive Order No. 91-6, Protection of Riparian Areas, dated February 14, 1991. ☒ A.A.C. R18-11-1 ☐ ADEQ Form 404-025(original)
☐ Title 33, Code of Federal Regulations, Part 330, published in the Federal Register on November 22, 1991, pages 59134 through 59147
☐ U.S.ACOE Special Public Notice, Nationwide Permit Regional Conditions and Certification Requirements for the State of Arizona, September 1, 1993
☐ ADEQ Permits Handbook, latest edition. ☐ Other Attachments: Title(s) _____. _____ pages.

DISTRIBUTION: Check other boxes below for copies to be distributed
ORIGINAL TO ☞ ☒ APPLICANT
COPY TO ☞ ☒ ADEQ 401/404 FILE ☒ COE ☐ AGFD ☐ USEPA ☐ USFWS ☒ OTHER Evan NiKirk, Vector Engineering Inc.

Response to Request for Information for Arizona State Water Quality Certification Review

ADEQ Form 404-001

In response to the request from ADEQ staff for additional information regarding the Mohave Valley Sanitary Landfill 401 Certification, the following discussion, figures, and drawings have been prepared or assembled to supplement the 401 certification application package that was submitted to ADEQ in March, 1997. To simplify the permit review process, the following format is based on the order in which information was requested on ADEQ Form 404-001; item numbers correspond to those on Form 404-001.

1.0 APPLICATION TO CORPS OF ENGINEERS

Currently, an application to the Corps of Engineers for Section 404 permitting is being prepared for submittal. In place of the request for a copy of this application and in addition to information already submitted, a description of the project and its specific and general location are addressed below in items 2 and 3.

2.0 PROJECT DESCRIPTION

The name of the facility is the Mohave Valley Sanitary Landfill.

The County of Mohave is the owner of the Mohave Valley Sanitary Landfill. The County Public Works Department has the responsibility of administering the landfill and the private contract under which it is operated. The County's principle contact person and address is as follows:

Mr. Michael P. Hendrix, P.E., Assistant Director
Mohave County Public Works Department
3675 E. Andy Devine Avenue, Suite C
Kingman, Arizona 86401
phone: (520) 757-0910
fax: (520) 757-0912

The private contractor responsible for daily operations at the facility is Mesa Disposal, Inc. The private contractor's operations manager and address is as follows:

Mr. John P. Mieding, P.E., General Manager
Mesa Disposal, Inc.
967 Hancock Road, Suite 141
Bullhead City, Arizona 86442
phone: (520) 758-0000
fax: (520) 758-2680

Assisting the owner and operator with preparation of this document and all supporting design calculations and other site information is Vector Engineering, Inc. (Vector), of Carson City, Nevada. Vector is a professional services engineering and planning firm under contract with Mesa Disposal to prepare the design and permit for the lateral expansion and other activities at the Mohave Valley Sanitary Landfill. The contact person and address of Vector's office where the project is being managed is as follows:

Mr. Evan Nikirk, P.E.
Vector Engineering, Inc.
1601 Fairview Avenue, Suite H
Carson City, Nevada 89701
phone: (702) 883-7065
fax: (702) 883-7161

The Mohave Valley Sanitary Landfill is a municipal solid waste landfill located on a 160 acre parcel off El Rodeo Road, approximately 4.5 miles east of its intersection with Arizona State Route 95, in Mohave County, Arizona. The junction of El Rodeo Road and Highway 95 is approximately two miles south of the Bullhead City limits. Location of the landfill with respect to its setting within state, county, and local boundaries is presented on Drawing 1, Title Sheet and Location Map, included with this submittal as Attachment A. The landfill facility, which is designed and intended solely for the disposal of residential and commercial solid wastes, began operations in January, 1989.

The facility accepts the following general waste categories for disposal: household, commercial, and institutional wastes; septic tank and grease trap wastes; construction and demolition debris; wood and yard waste; waste tires; and, dead animals. The principal sources of waste disposed at the site are residential, commercial, and recreational; there are no industrial facilities within the landfill service area. Existing conditions of the landfill and general locations of facility operating, maintenance, and storage areas are presented on Drawing 2, Existing Topography and Facilities, in Attachment A.

Property boundaries of the Mohave Valley Sanitary Landfill encompass 159.9 acres and the proposed footprint for waste placement will ultimately occupy approximately 117 acres. The remaining 42.7 acres of site area will be utilized for access roads, drainage control systems, ponds, soil stockpiles, and other site facilities. The proposed final build-out of the site is presented on Drawing 6, Final Grading Plan. Based on the final design of the landfill, the entire site is expected to be altered at some point in the future. Site development will take place in a continuous process during the active life of the landfill. Therefore, the final design buildout of the landfill will occur over a predicted site life of 57 years.

As shown on Drawing 2, Existing Topography and Facilities (Attachment A), the site is traversed by two major washes which have been identified by the U.S. Army Corps of Engineers to be within their jurisdictional limits under Section 404 of the Clean Water Act. Since the entire site is expected to be altered during future landfill operations, including these jurisdictional unnamed

washes, the appropriate approval permits need to be obtained through ADEQ and the U.S. Army Corps of Engineers.

3.0 PROJECT LOCATION

The Mohave Valley Sanitary Landfill is a municipal solid waste landfill located at Longitude 114° 31' 00" West, Latitude 35° 01' 28" North. The site is located within the Mohave Valley, a northwest-trending alluvial valley adjacent to, and east of, the Colorado River. The landfill property is legally described as the NE1/4, sec. 21, T. 19 N., R. 21 W., Gila and Salt River Baseline and Meridian. Property location and ownership of the Mohave Valley Sanitary Landfill is identified in Mohave County Assessor's Book 221 of the Records of Survey, page 33, Parcel No. 010; the site is owned by the County of Mohave. A site location map is included on Drawing 1, Title Sheet and Location Map. The map presents the facility location relative to the closest population centers and transportation systems.

4.0 SITE TOPOGRAPHY

The Mohave Valley Sanitary Landfill is situated on a broad alluvial fan; topography in the vicinity is represented by very uniform terrain cut by numerous braided washes typical of the region. The site has a gradual slope of approximately three percent trending from northeast to southwest. Existing site elevations range from 1216 feet at the northeast corner of the site to 1088 feet at the southwest corner of the site.

Existing site elevations are shown on Drawing 2, Existing Topography and Facilities. Current designs call for excavation of the disposal cells to approximately 60 feet below existing grades. The location of proposed future disposal cells are shown on Drawing 5, Fill Sequencing Plan, in Attachment A. The typical process of excavation and filling is shown on Drawings 3 and 4, attached. These drawings show the proposed bottom and top elevations of the disposal cells. The final elevations of the landfill closure cap are shown on Drawing 6, Final Grading Plan. Elevations and limits of proposed disposal cell cut and fill are presented in cross-section on Drawing 7. Location of the cross-sections are presented on the attached plans.

Ground water was not encountered during exploratory drilling to depths of 400 feet at a location one-half mile south of the landfill. The drilling program was contracted by Mohave County in 1987 during the landfill siting process. The results of a subsequent exploratory drilling program conducted on the landfill property by Vector Engineering in 1994 did not indicate the presence of ground water within 280 feet of the surface. It is anticipated that the very low precipitation rates and high evaporation rates, depth to groundwater, and expected landfill activities over the life of the landfill will not contribute to groundwater fluctuations, if groundwater is even present.

5.0 FILL MATERIAL

Only on-site native soils will be used as fill material for facility operations outside the waste footprint. Daily and final cover systems placed over deposited waste will consist of native soils

previously excavated from the site. On-site native soils can be classified as a silty or clayey sand with gravel. Site soils are not known to contain any potential pollutants since the landfill site was undeveloped prior to establishing the landfill. Native soil samples were obtained from the proposed Cell 9 expansion area and characterized at a soils laboratory. A copy of the sieve analysis results are included in this submittal as Attachment B.

9.0 REPORTS

9.1 Engineering Design Plans and Specifications

Engineering design drawings for the construction and sequencing of waste disposal cells, drainage control facilities, and other site features have been prepared in accordance with applicable solid waste permitting requirements. These requirements are outlined in the Solid Waste Plan Review Checklist provided by the ADEQ Solid Waste Division. In addition, engineering design drawings associated with the final closure configuration for full site development have been included in Attachment A.

The specific facility design elements presented on the permit drawings are discussed below, with reference to the applicable drawing number.

- **Existing Site Topography:** A topographic map was prepared to provide a base map for site design drawings. Existing topography extending a minimum of 500 feet beyond site property boundaries is presented with two-foot contours and at a scale of 1"= 200' on Drawing 2. The date of photography for the base map is May 21, 1996.

- **Proposed Excavation Grades:** The proposed grades following construction of the lateral expansion into Cell 9A are shown on Drawing 3; continuation of construction into the next phase, Cell 9B, is shown on Drawing 4. In addition, the excavation grades for the initial waste tire monofill, Cell 10, are also delineated on Drawings 3 and 4. These grades represent the typical excavation design for subsequent phases of Cells 9 and 10, as well as for future disposal cells at the site. A cross-sectional representation of the cells are shown on Drawing 7.

- **Proposed Interim and Final Contours:** Typical interim slopes and grades are shown on Drawing 4, which presents the completion of Cells 9A and 10A prior to continuation of operations into Cells 9B and 10B. The interim grades shown on Drawing 4 represent the approximate site configuration following the initial seven-year operating life of each phase within those disposal cells. Final grades and slopes following closure of the site are delineated on Drawing 6. Again, typical cross-sections of existing, interim, and final disposal cell grades are shown on Drawing 7.

- **Stockpile and Storage Areas:** Location and size of stockpile areas will vary over the life of the site. Current and near-future soil and tire stockpile areas are shown on Drawings 2, 3 and 4; location of current and near-future material and equipment

storage areas are also shown on these drawings. The approximate locations of future soil stockpiles are shown on Drawings 5 and 6. Following completion of the initial waste tire monofill, Cell 10, the current waste tire stockpile area will be moved to the location shown on Drawing 5.

- **Drainage Control Systems:** Typical drainage collection and control facilities proposed for the site during operations are shown on Drawings 3 and 4. Similar systems and methods will be installed in future cells. The drainage control system that will be in place following closure is shown on Drawings 6, 8 and 11; this system will be progressively constructed with each disposal cell.

- **Drainage System Grades and Dimensions:** Design details of typical drainage control structures are presented on Drawings 8, 9 and 10; grades, inverts, and dimensions are discussed later in this section.

- **Flood Control Structures:** Flood control structures are not applicable to this site since it is not located within a 100-year floodplain. Because some site activities are covered under the APP program, all site drainage facilities and run-on diversion channels have been designed for the 100-year, 24-hour storm event; location of these facilities following closure are presented on Drawings 6, 8 and 11.

- **Existing Waste Footprint:** The approximate limits of existing waste placement are delineated on Drawings 2, 3, 4, and 5.

- **Facility Development Plans:** The progression of facility development and the limits of future disposal areas are delineated on Drawing 5. The final configuration of the site following closure is presented on Drawing 6.

- **Sedimentation Basin:** All surface water run-off from future cells will be collected and routed via drainage channels and culverts to sedimentation basins, which will be constructed where proposed on Drawings 5, 6, and 11. Temporary sediment traps will be constructed as needed throughout the active life of the landfill

9.2 Drainage Plan

The Mohave Valley Sanitary Landfill is situated on a broad alluvial fan; topography in the vicinity is represented by very uniform terrain cut by numerous braided washes typical of the region. The site has a gradual slope of approximately three percent trending from northeast to southwest. The construction of drainage control facilities will progress throughout the active life of the landfill as waste fill is brought above native grades. Drainage facilities illustrated on the drawing set in Attachment A are designed to divert both run-on and run-off flows away from temporary and final fill surfaces and into natural drainage channels south and west of the site. All areas immediately downstream of any culvert outlets will be lined with rip-rap to eliminate the possibility of erosion due to high energy discharges during storm events. The drainage system

installed during operation and closure construction has been designed to maintain the water quality in downstream washes.

9.2.1 Diversion Channel

Storm water run-on from off-site washes will be collected and controlled by a proposed diversion channel constructed along the eastern property boundary. The channel will have a trapezoidal geometry and will be constructed in an off-site easement obtained from the U.S. Department of Interior, Bureau of Land Management (BLM). Approval of flow diversion by the local floodplain administrator is provided in a letter in Attachment C. The channel will be constructed in two phases to accommodate disposal cell construction, which will progress from north to south. Diverted flows will be returned to their original paths at the southern and western property boundaries. Design geometry, alignment, and details of the diversion channel are provided on Drawing 8, enclosed in Attachment A.

Construction of Phase I of the diversion channel will commence at the northeast corner of the site and extend in a southerly direction for approximately 1,500 feet. At that point, intercepted flows will be routed under the perimeter access road through two parallel 48-inch culvert pipes. The culverts will be constructed from either corrugated metal pipe (CMP) or corrugated polyethylene pipe (CPEP); the base and sidewalls of the channel at both inlet and outlet will be lined with rip-rap, as shown on Drawing 8. The culverts will discharge flows into a short segment of improved channel that intersects downstream with a natural wash located on-site. The discharge point is located between the current waste tire collection site (Cell 016) and the former wood and yard waste disposal pit (Cell 007). The wash that receives diverted flows ultimately intersects one of two main washes on-site that have been identified by the U.S. Army Corps of Engineers (Army Corps) as being within their jurisdictional limits under Section 404 of the Clean Water Act. As a result, run-on flows intercepted by the Phase I channel are routed south of disposal cells 009 and 010 and discharged off-site into the wash which diverted flows would eventually have entered prior to channel construction.

Construction of Phase II, which will take place during Cell 011 excavation, will extend the initial channel segment to the southeast corner of the site. At that point, run-on flows will be diverted under the site entrance road through three parallel culverts located between the entrance gate and scalehouse. Culvert materials and protection will be similar to that described above; culverts installed for Phase I will be either abandoned in-place, removed for disposal, or recovered for re-use. Phase II culverts will discharge run-on flows into an on-site continuation of the diversion channel. The segment constructed on-site will parallel the southern property boundary for approximately 2,200 feet, then swing northwest at a bearing of N 30° W, as shown on Drawing 6. The diversion channel will terminate in the Army Corps wash at the western property boundary, as described above, thus returning run-on flows to their original destination. Due to the southwesterly trend of natural surface slopes and drainages in the landfill vicinity, the existing destination of run-on flows which will eventually be intercepted off-site by the proposed Phase II channel are natural drainages south of the landfill. As a result, 24-inch culverts will be installed at four locations along the southern property boundary to apportion channel flows and return them to their original paths south of the site.

9.2.2 Run-Off Control System

The site drainage control system has been designed to collect storm water run-off from landfill surfaces and route it through swales, ditches, culverts, and/or downdrains to perimeter channels along the toe of the landfill. These channels will be constructed adjacent to site access roads around the perimeter of the waste footprint to collect storm water from sideslope surfaces and will route all run-off flows to a sedimentation basin at the southwest corner of the site to settle out sediment loads prior to discharging into natural channels downstream. Due to the arid climate of the region, which may make revegetation of fill slopes and disturbed surfaces difficult, open channels will be constructed with erosion matting, geotextile, rip-rap, or other suitable lining material to minimize erosion from concentrated flows. The configuration of the drainage system following landfill closure is presented on Drawing 6; typical drainage facilities installed during operations are presented on Drawing 4.

The Mohave Valley Sanitary Landfill will be operated by the cut-and-fill, or area, method of disposal. This method consists of excavating the disposal cell immediately ahead of the active disposal area and using the excavated material for daily cover. Excavation will progress toward the west end of each disposal cell and occur simultaneously with disposal operations, which will take place to the east of the construction area. The base of the excavated cell will be sloped to the west, thus providing a hydrologic low point at the western-most toe of the cell. Excavated sideslopes will be constructed with a maintenance bench approximately at mid-depth; benches will provide additional slope stability, access for slope maintenance, and drainage collection from sideslope areas. Waste fill slopes will be constructed with benches located approximately every 40 vertical feet. Run-off collected by benches from interim fill slopes and cut slopes will be routed by v-ditches to the west, then down the sideslopes and into the base of the cell. As a result, the basin created by cell excavation activities will provide a storage area for the percolation and evaporation of storm water run-off collected from disposal cell surfaces.

As waste fill is brought above grade, run-off collected from landfill surfaces in a given cell will continue to be diverted to the base of excavation. However, when the toe of waste placement reaches the western toe of a given cell excavation, all storm water run-off will be diverted into perimeter channels and routed to a permanent sedimentation basin constructed at the southwest corner of the site. The permanent sedimentation basin will be installed during the initial stages of Cell 009C operations, which is expected to commence in the year 2011, assuming a seven-year disposal life each for Cells 009A and 009B. Prior to that, a temporary sedimentation basin will be constructed to the west of Cell 009 for the storage, infiltration, and evaporation of storm water run-off collected from landfill surfaces within the existing waste footprint. The location of the temporary basin is shown on Drawings 3 and 4 in Attachment A.

At closure, the top deck of the landfill will be divided into a series of surface planes which will be constructed in a ridge and swale configuration to collect and control storm water run-off. Each pair of adjacent ridges will provide a hydrologic boundary, and surfaces will be sloped toward a drainage swale located halfway between the ridges; five distinct drainage basins will be created in this manner on the top deck. Each drainage swale will be constructed

with an erosion mat or geotextile overlain by rip-rap lining to provide erosion protection. The drainage swales will route surface flows toward the west end of each basin where a soil headwall berm will collect and concentrate surface and channel flows into a CMP downdrain. Due to the energy generated by water flowing down the 33% slope, a tee section will be installed at the bottom of each downdrain and a discharge apron will be constructed in the receiving channel to minimize erosion. The network of downdrains and headwall berms will minimize scouring of sideslopes due to storm water run-off by reducing the potential for sheet flows. In addition, the facility design includes the construction of maintenance benches at approximately every 30 to 40 vertical feet. These benches provide additional slope stability, access for slope maintenance, and drainage collection from sideslope areas; trapezoidal channels or v-ditches will be installed along the inside of each bench.

9.2.3 Hydrologic Analyses

Drainage analyses were performed using the final grading plan depicted on Drawing 6. The final closed surface of the landfill, the soil stockpile areas, and adjacent areas of land that contribute run-on water to the diversion channel were divided into drainage areas based on the final destination of run-off in a particular location. The landfill surface was divided into five drainage areas, which were further divided into 17 sub-areas based on the proposed site design. The soil stockpile areas along the western property boundary were analyzed as a single system comprising the sixth on-site drainage area. Off-site areas contributing to the diversion channel were also analyzed as a single drainage basin; this area is depicted on Figure 8-1, included in Attachment D. On-site drainage sub-areas are illustrated on Drawing 11, included in the plan set in Attachment A. To aid in drainage structure identification and comparison of results, the open channels and culverts that comprise the proposed drainage system are individually labeled on Drawing 11.

The United States Department of Agriculture, Soil Conservation Service TR-55 methodology (USDA, 1986) was used to calculate peak flood hydrographs for each of the drainage sub-areas. The rainfall distribution in Arizona is synthetically approximated by the Soil Conservation Service as a Type II pattern, which represents an intense, short-duration rainfall event. Rainfall intensity data used in the TR-55 method were derived from the Precipitation Frequency Atlas of the United States - Volume VIII - Arizona (NOAA, 1973). Because some site activities are regulated under the Aquifer Protection Program, the hydrologic analyses were performed for a 100-year, 24-hour storm event. The 100-year, 24-hour storm depth used in the analyses was 4.0 inches, while a precipitation depth of 1.4 inches was used for the two-year, 24-hour storm event. The NOAA precipitation data has been reproduced in Figures 8-2 and 8-3, respectively, which are included in Attachment D.

A hydrogeologic report of the Mohave Valley Sanitary Landfill site and its regional setting has been included as Attachment E. Soils information presented in this document was used to determine the hydrologic soil group classification and surface cover type. This information then allowed for the appropriate selection of the run-off curve number from Table 2-2c of the TR-55 manual *Urban Hydrology for Small Watersheds* (USDA, 1986); a copy of the table can be found in Attachment D . Site soils have been characterized as Chuckawalla formation soils. Therefore, the hydrologic soil group within the drainage areas were defined in the hydrologic

analyses as Group B, corresponding to the classification for Chuckawalla soil listed on Exhibit A-1 from TR-55 in Attachment D. When performing a hydrologic analysis on a prescriptive Subtitle D final cover or an alternative cover designed with geosynthetic materials, the soil is typically defined as Group D, which is characterized by a shallow permeable soil layer (e.g., the erosion layer) underlain by an impervious soil layer. However, the owner and operator of the Mohave Valley Sanitary Landfill are proposing to install an alternative final cover constructed with a thick native soil mono-layer, thus relying on the soil storage capacity and high regional evaporation rates to prevent liquid migration into the waste mass; a technical demonstration and request for approval of the alternative design is presented in Volume II of the Solid Waste Facility Plan for the Mohave Valley Sanitary Landfill. As a result, final landfill surface soils were defined as Group B in the hydrologic analyses. Field observations indicate that the cover type typical of the immediate vicinity is "desert shrub" with a poor amount of ground cover. As a result, a run-off curve number of 77 was used for both landfill surfaces and for native ground surfaces in the analyses.

The resulting output files from the TR-55 computer program provide estimated storm water surface flows for drainage sub-areas one through 17. The "Summary of Hydrologic Analyses" table included in Attachment D provides a detailed description of the storm flows predicted by TR-55. Drainage sub-areas are identified with the same numbering system used on Drawing 11.

9.2.4 Hydraulic Design

The data generated from the TR-55 hydrologic analyses were used in conjunction with the FlowMaster I (Haestad, 1990) computer program to size the drainage channels and culverts proposed in the facility design. The resulting flow depths and velocities in each on-site channel and culvert, as determined by the FlowMaster I analyses, are summarized in the table entitled "Summary of Hydraulic Design", included in Attachment D. The channel and culvert designations in the table refer to the corresponding drainage facilities presented on Drawing 11. As stated above, all drainage channels were conservatively sized to adequately collect and control peak flows resulting from a 100-year, 24-hour storm event. A series of data sheets from the FlowMaster analysis is attached to provide detailed information on the flow depth and velocity in each drainage channel and culvert at the calculated discharge and given slope grades included in the landfill design.

Drainage channels varied between swales, v-ditches, and trapezoidal ditches, depending on the location, peak flow rate, and channel slope. Drainage swales were designed with 10:1 (H:V) channel sideslopes, v-ditches were designed with 3:1 sideslopes, and trapezoidal ditches were assigned 1:1 sideslopes with a four-foot wide base; the minimum channel depth was established as 12 inches. Cross-sectional details of open channels proposed for installation at the landfill are presented on Drawing 9 of the plan set. Due to the use of rip-rap channel lining to protect against erosion scouring, all open channels were analyzed with a roughness coefficient (Manning's n) of 0.035.

Culverts were sized to convey design flows based upon the flowline slope. Although either corrugated metal pipe (CMP) or corrugated polyethylene pipe (CPEP) may be

selected during culvert construction, all culverts were conservatively analyzed with a roughness coefficient of 0.024, which corresponds to CMP; CPEP culverts have a lower roughness coefficient than CMP, resulting in a greater carrying capacity for a given slope. The minimum culvert diameter was established at 18 inches for ease of maintenance and to minimize the potential for blockage. Due to the heavy axle loads, culverts crossing under roads will be provided with a minimum of 36 inches of cover material, including the structural road section; Detail H, presented on Drawing 9, specifies trench construction and pipe installation criteria for culverts. Culverts number 7, 8, and 9 will be provided with corrugated metal flared end sections at both the inlet and outlet, whereas culverts number 3, 6, 10, and 11 will be provided with drop inlets; a typical drop inlet is conceptually presented in Detail G on Drawing 9. The remaining culverts are downdrains that route surface flows collected from the top deck of the landfill; these will be constructed with a headwall berm, as shown on Details A and C.

The sedimentation basin at the southwestern corner of the site is designed to detain storm water flows and allow sediment loads to settle out; the inlet discharge location and outlet structure are placed at opposite ends of the basin to maximize flow detention time and, thus, maximize the potential for sediment removal. Storm water hydrographs from sub-areas contributing flows to the basin were combined and routed into the basin and through the outlet structure. The outlet structure is designed discharge flows predicted to result from the 100-year, 24-hour storm event; a spillway is provided to pass flows in excess of basin capacity. Basin flows are discharged via a 48-inch CMP culvert into a natural wash at its intersection with the western property boundary. Pipe capacity at the maximum predicted head, or water level, of seven feet is estimated to be 125 cfs, which exceeds the peak basin discharge flow of 117 cfs. Details of the sedimentation basin and outlet structure are presented on Detail L, included on Drawing 10.

11.0 FLOODPLAIN DELINEATION

Exhibit 9 presented in the hydrogeologic report included in Attachment E shows the location of the Mohave Valley Sanitary Landfill in relation to the nearest 100-year flood zones. As required by site restrictions established in the state solid waste regulations, the landfill is not located in a 100-year flood zone. Its current location is classified as Zone C, areas of minimal flooding.

13.0 APPLICANT'S RESPONSE TO ADEQ FROM 404-003

ADEQ Form 404-003, Applicant's Response to the Arizona Department of Environmental Quality Policy for Protecting Water Quality During Facility Construction, has been completed and is located in Attachment F of this response.

15.0 IMPACT ANALYSIS

Based on the proposed design of the landfill, location of the landfill, storm water controls, and the many precautions taken to minimize erosion and sedimentation, impacts to surface water quality are expected to range from minimal to non-existent. As pointed out in previous sections, all on-site run-off will be controlled to minimize erosion, and channeled to sedimentation basins or

sediment traps where any suspended loads will be allowed to settle out. After a small residence time, the storm water flows will be discharged to established washes downstream of the landfill. Off-site run-on from upstream washes will be intercepted and diverted around the landfill site using a rip-rap lined trapezoidal channel depicted on Drawing 8 in Attachment A. The channel will divert run-on flows to the south and then west along the southern property boundary. Lining of the trapezoidal diversion channel will eliminate any increases in sediment load, and distribution of collected storm water flows to natural washes to the south and west of the landfill will minimize changes in run-off flows for the various washes. Placement of a rip-rap apron downstream of any high energy discharge points, such as culverts, and redistributing of flows to established washes will eliminate any erosion problems downstream of the facility.

According to the proposed design, upstream conditions are not expected to be impacted by any on-site landfill activities. There may be some minor impacts on downstream conditions due to changes in peak discharge rates, quantity of storm water run-off and changes in rate of sediment transport. Each of these impacts are perceived either to be benign or insignificant to the morphology and water quality of downstream washes. There may be some minor decreases in peak discharge and run-off quantities due to the construction of sedimentation basins. Sedimentation basins and sediment traps in large storm events will help to spread out peak discharges over longer time periods, while in small storms there may be no storm water discharges from the landfill property to downstream washes. In addition, construction of sediment traps will most likely decrease natural sediment loading in downstream channels. Based on the much larger volumes of off-site run-off than on-site run-off, changes in sedimentation, flow rates and flow quantities are not expected to be significant, and are not expected to impact the downstream water quality conditions or morphology. The only portion of the delineated channel that is expected to change significantly are those portions located within the landfill property boundary. As presented in the attached plan set, this section of the delineated wash will be isolated from upstream run-off, excavated and filled with solid waste.

Disturbances to downstream Section 404 delineated washes caused by landfill activities are expected to be in compliance with AACR 18-11-107, 108, and 109.

ATTACHMENT A

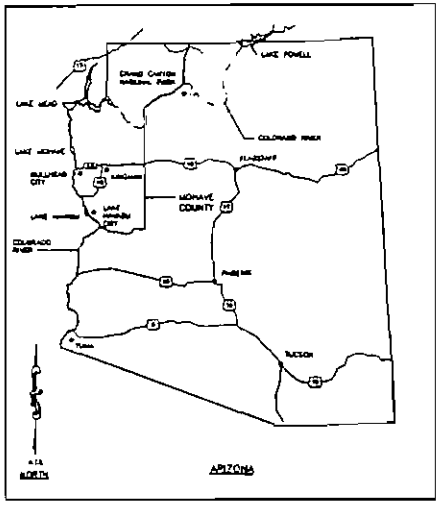
Reduced Drawing Set

SOLID WASTE FACILITIES PLAN

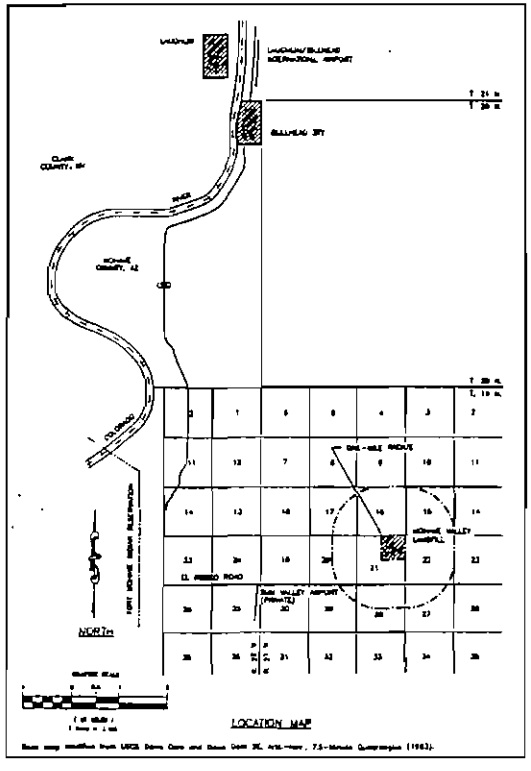
FOR THE

MOHAVE VALLEY LANDFILL

MOHAVE COUNTY, ARIZONA

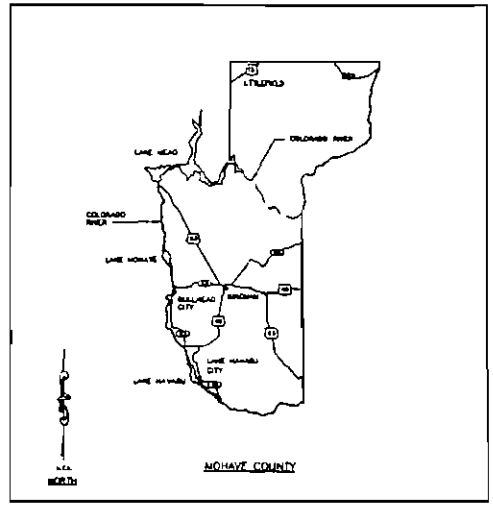


ARIZONA



LOCATION MAP

Base map modified from USGS Davis Dam and Davis Dam SE, Ariz.-Nev., 7.5-Minute Quadrangles (1983).



MOHAVE COUNTY

INDEX OF DRAWINGS

DRAWING NO.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	EXISTING TOPOGRAPHY AND FACILITIES
3	CELL 9A EXCAVATION PLAN
4	CELL 9A FILL / CELL 9B EXCAVATION PLAN
5	FILL SEQUENCING PLAN
6	FINAL GRADING PLAN
7	CROSS SECTIONS
8	DIVERSION CHANNEL CONSTRUCTION PLAN
9	DETAILS, SHEET 1 OF 2
10	DETAILS, SHEET 2 OF 2
11	HYDROLOGIC SUB-AREA LAYOUT

DETAIL REFERENCE SYMBOL

DETAIL DESIGNATION
DRAWING REFERENCE

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

TITLE SHEET AND LOCATION MAP

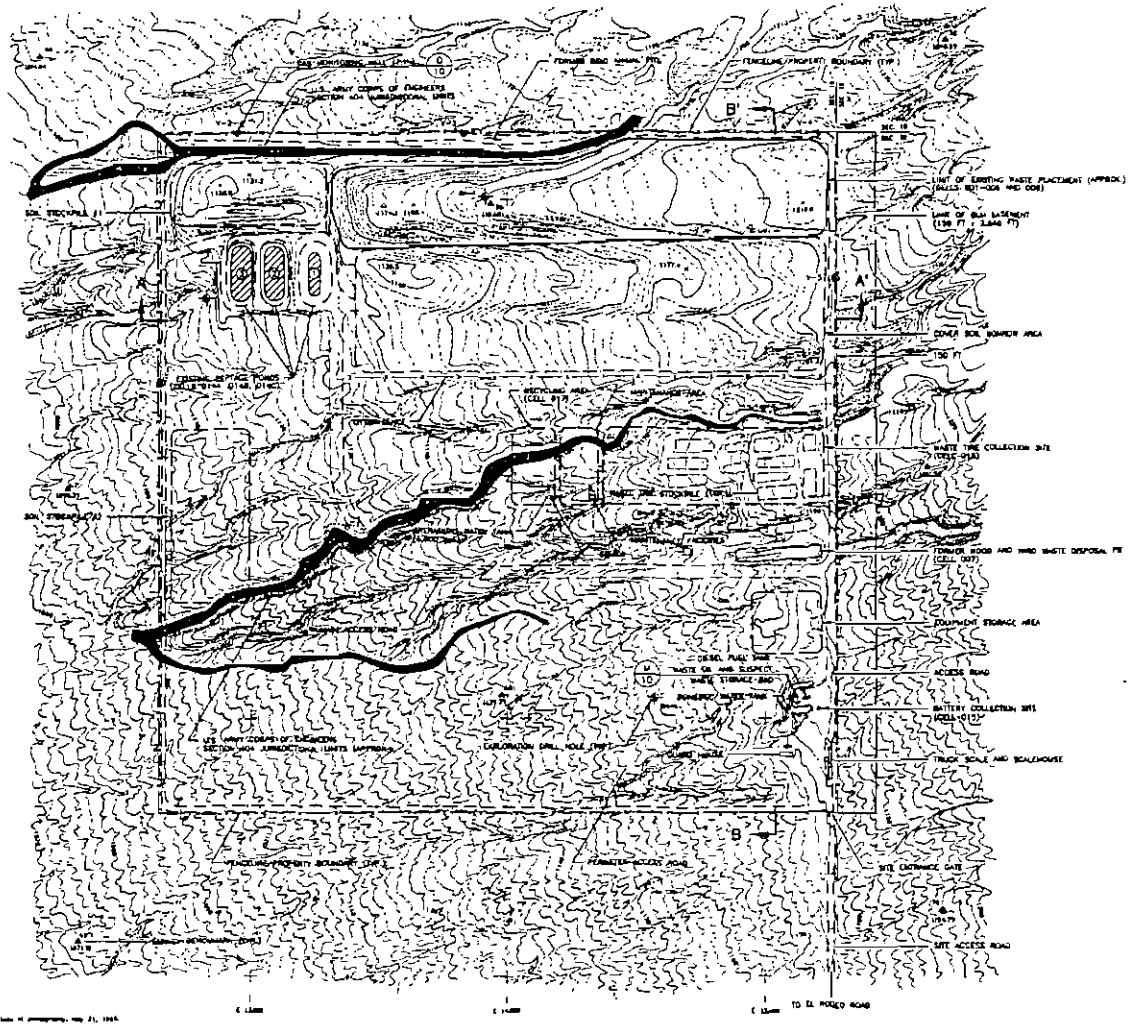
Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

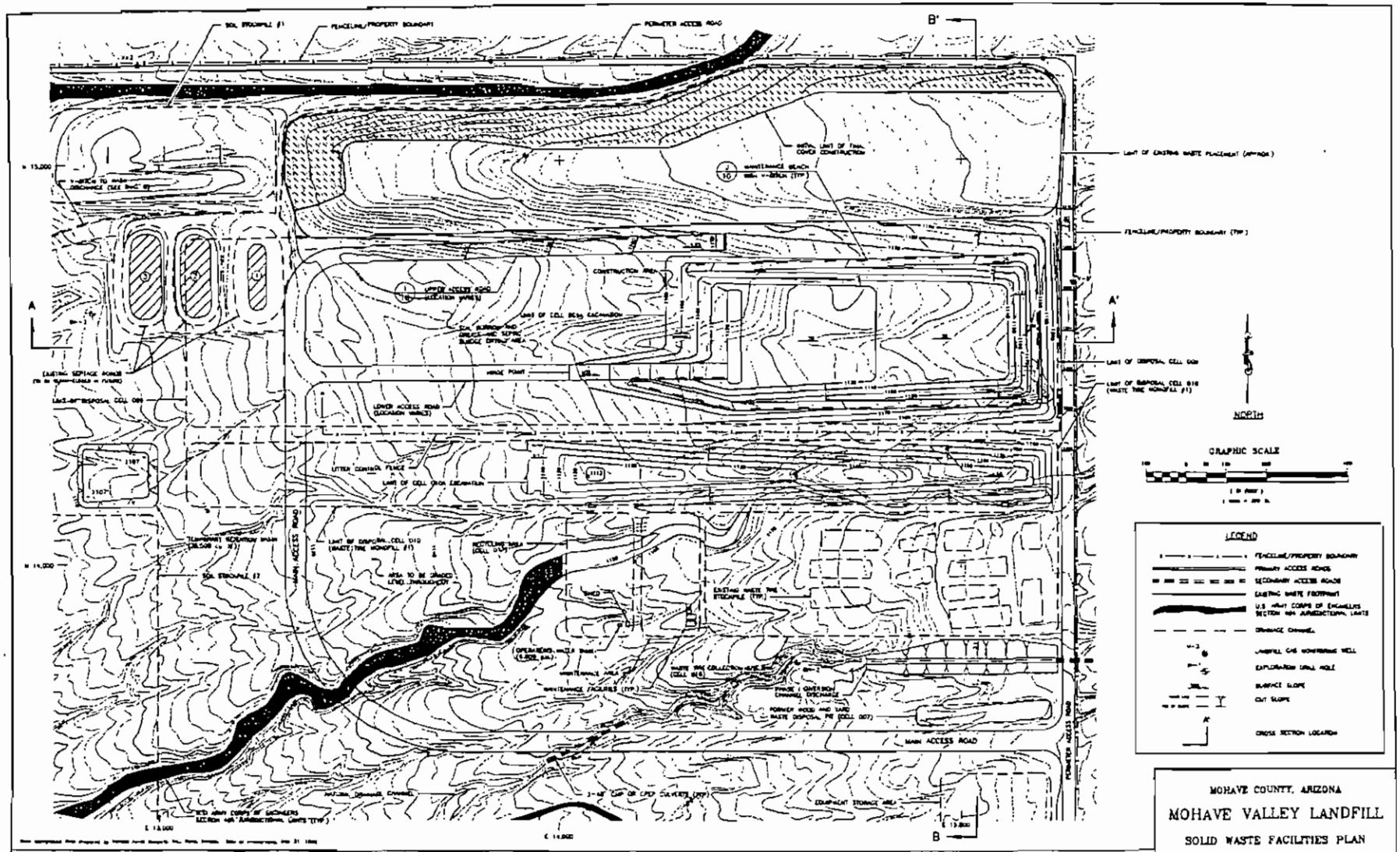
Drawing No. 1

File Name D-SW-101-9

VECTOR ENGINEERING, INC.

1001 Fourteen Mile Road, Suite B, Carson City, NV 89701 (702) 883-7100


B'
A'
B
A
NORTH
GRAPHIC SCALE
LEGEND
FENCELINE/PROPERTY BOUNDARY
EASEMENT BOUNDARY
EXISTING DIRT ROAD
EXISTING WASTE FOOTPRINT
U.S. ARMY CORPS OF ENGINEERS SECTION 404 JURISDICTIONAL LIMITS
SURVEY BENCHMARK
LANDFILL GAS MONITORING WELL
EXPLORATION DRILL HOLE
CROSS SECTION LOCATION
MOHAVE COUNTY, ARIZONA
MOHAVE VALLEY LANDFILL
SOLID WASTE FACILITIES PLAN
EXISTING TOPOGRAPHY AND FACILITIES
VECTOR ENGINEERING, INC.
Drawing No 2
File No D-SW-102-B



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

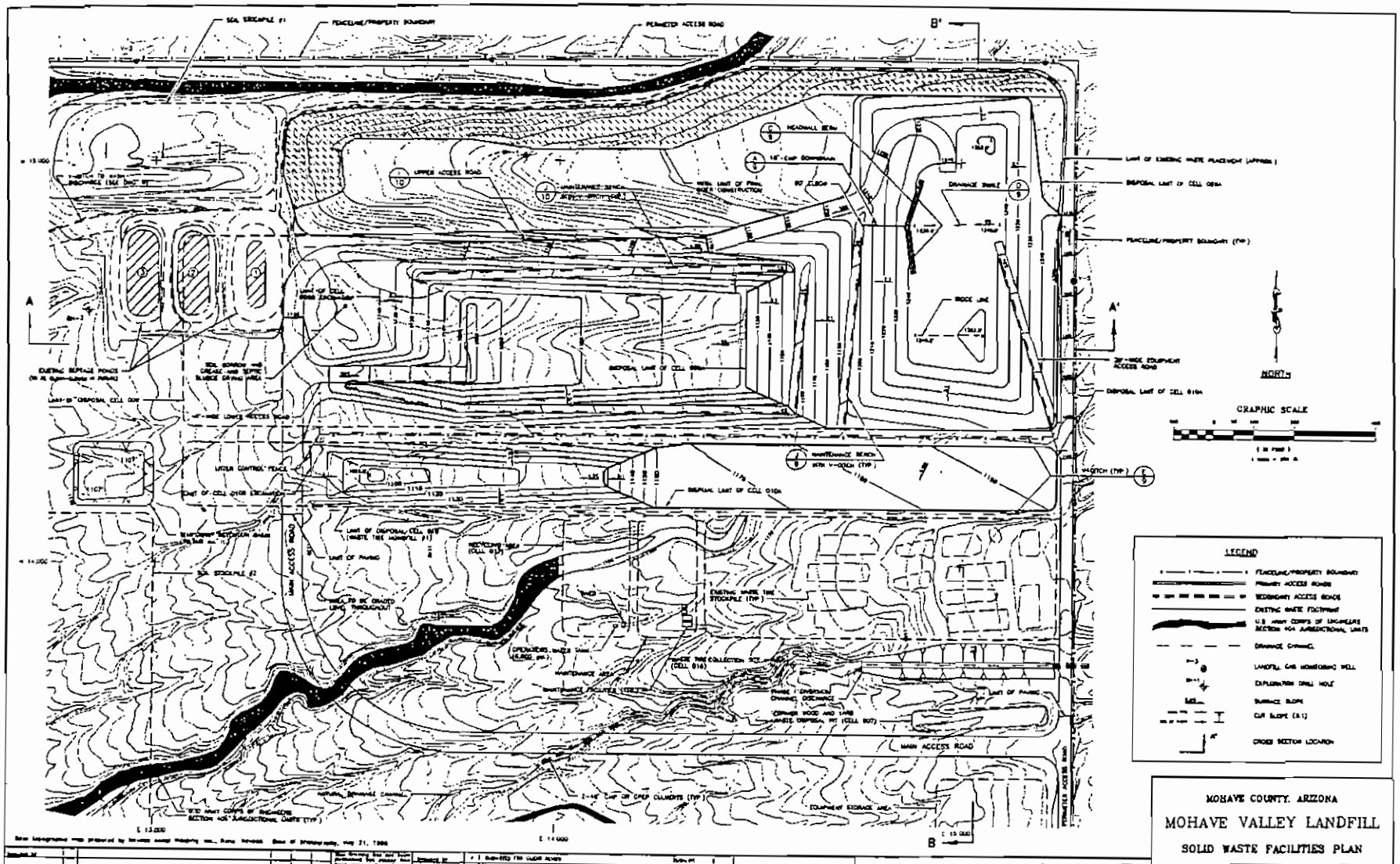
CELL 8A EXCAVATION PLAN

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 3 File Name D-SW-103-C C

VECTOR ENGINEERING, INC.

1681 Fourteen St. Suite K, Colorado City AZ 86021 (928) 875-7065



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

CELL 8A FILL / CELL 8B EXCAVATION PLAN

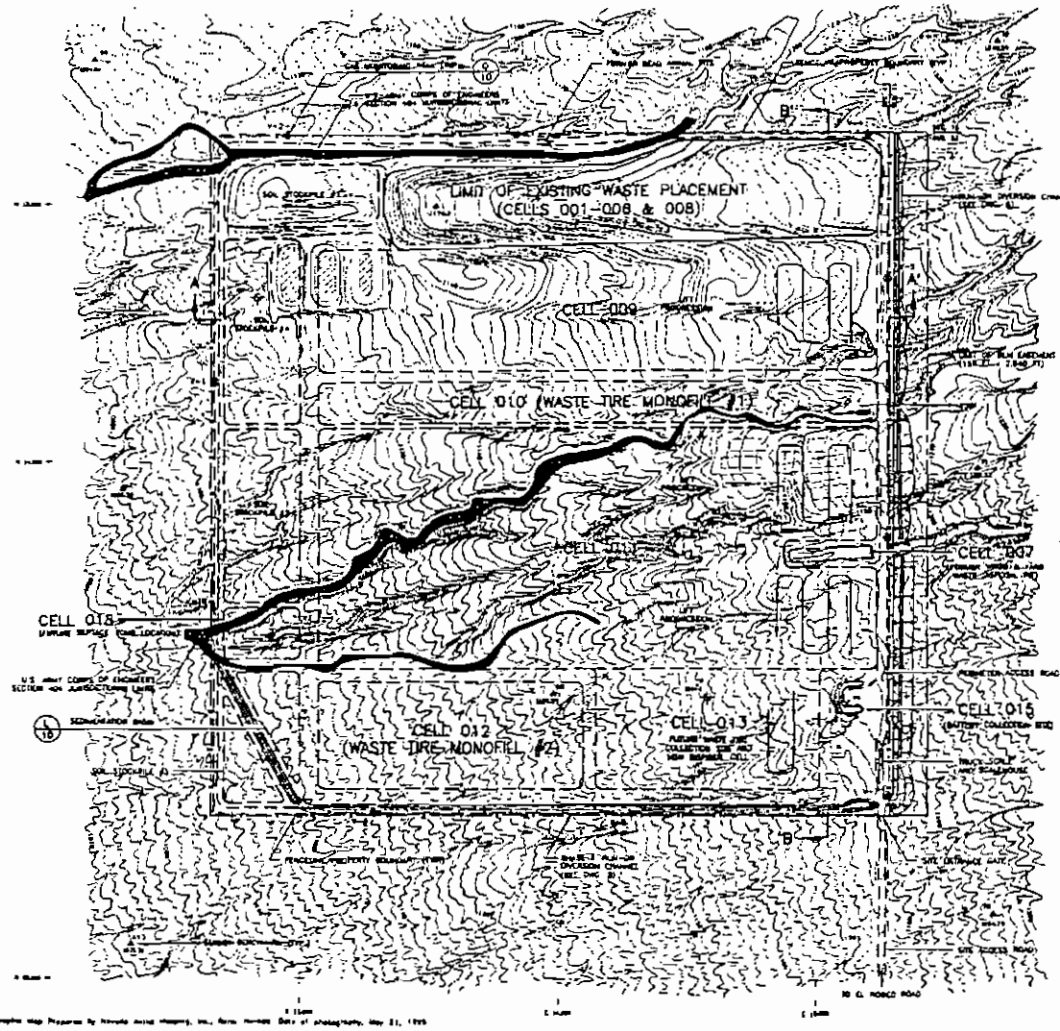
Drawing Name

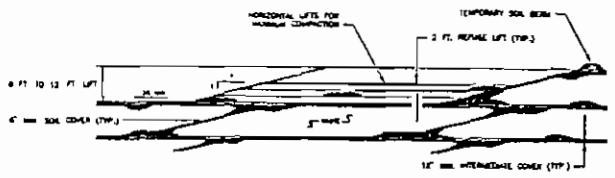
Location NE 1/4, SEC. 21, T. 19 N., R. 21 W

Drawing No. 4 | File Name D-SW-104-B | B

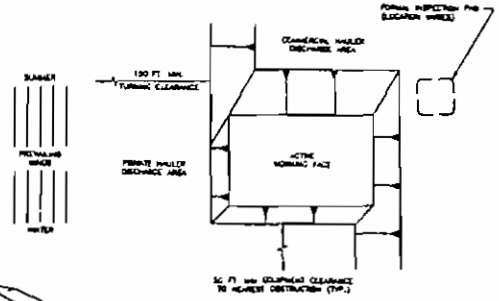
VECTOR ENGINEERING, INC.

1601 Fourteen Dr. Suite E. Corona City, NV 89701 (702) 883-7866

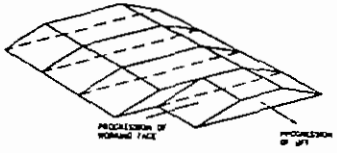




SAMPLE CELL LAYOUT - PROFILE VIEW
N.T.S.



SAMPLE CELL LAYOUT - PLAN VIEW
N.T.S.



SCHEMATIC OF FILL SEQUENCE
N.T.S.

LEGEND

- PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- EXISTING DIRT ROAD
- EXISTING WASTE FOOTPRINT
- WASTE CELL / INCREMENT BOUNDARY
- U.S. ARMY CORPS OF ENGINEERS SECTION 404 JURISDICTIONAL LIMITS
- LANDFILL GAS MONITORING WELL
- SURVEY BENCHMARK
- EXPLORATION DRILL HOLE
- CROSS SECTION LOCATION
- CUT SLOPE (3:1)

GRAPHIC SCALE

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

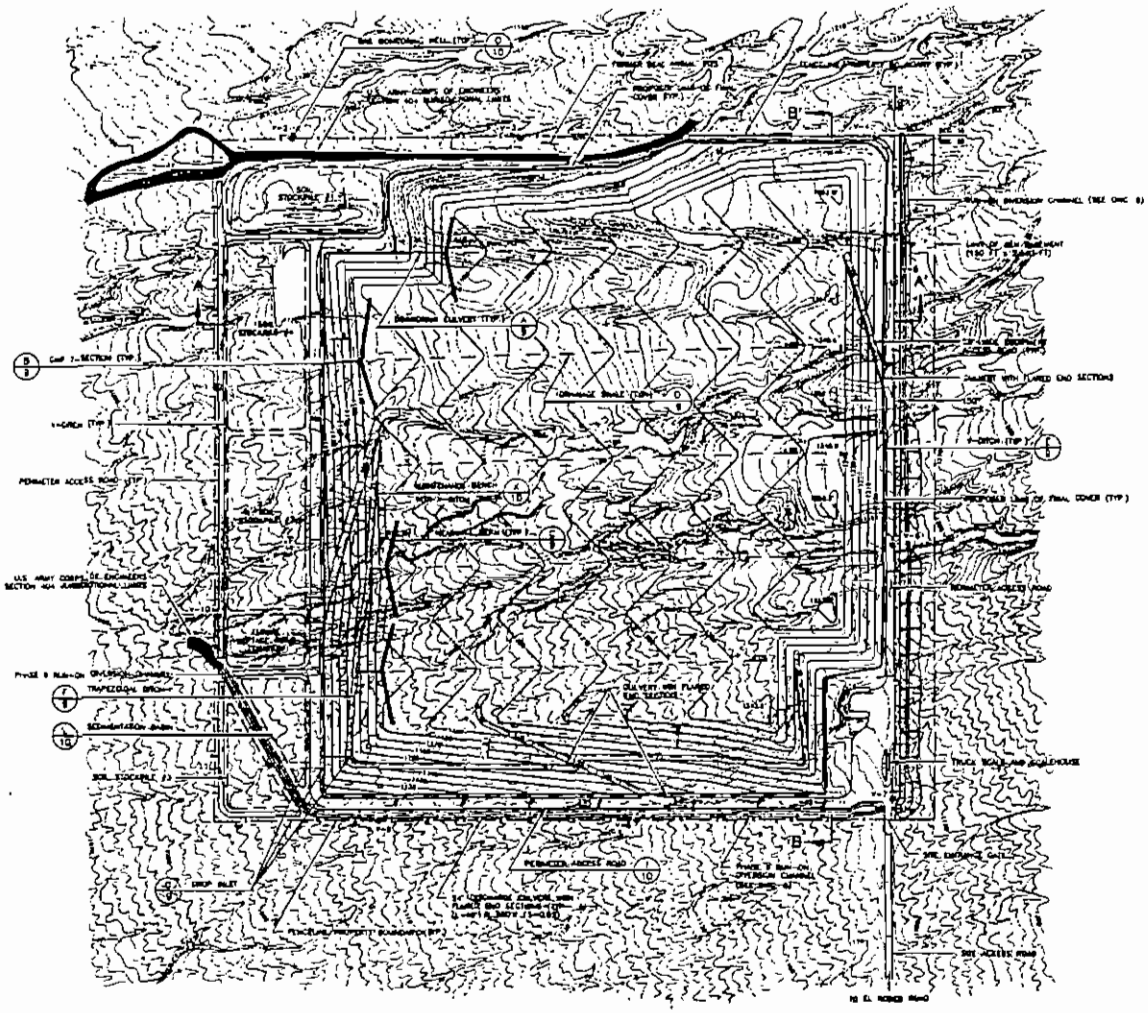
FILL SEQUENCING PLAN

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 5 | File Name: D-SW-105-B | B

VECTOR ENGINEERING, INC.

1001 Fourteen St. Suite E. Corpus Chi. NV 89701 (702) 883-7500



NORTH

GRAPHIC SCALE

LEGEND

- FENCELINE/PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- ACCESS ROAD
- LIMIT OF FINAL COVER
- STOCKPILE/POND BOUNDARY
- DRAINAGE CHANNEL
- U.S. ARMY CORPS OF ENGINEERS SECTION 404 JURISDICTIONAL LIMITS
- LANDFILL GAS MONITORING WELL
- CUT SLOPE (3:1)
- CROSS SECTION LOCATION

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

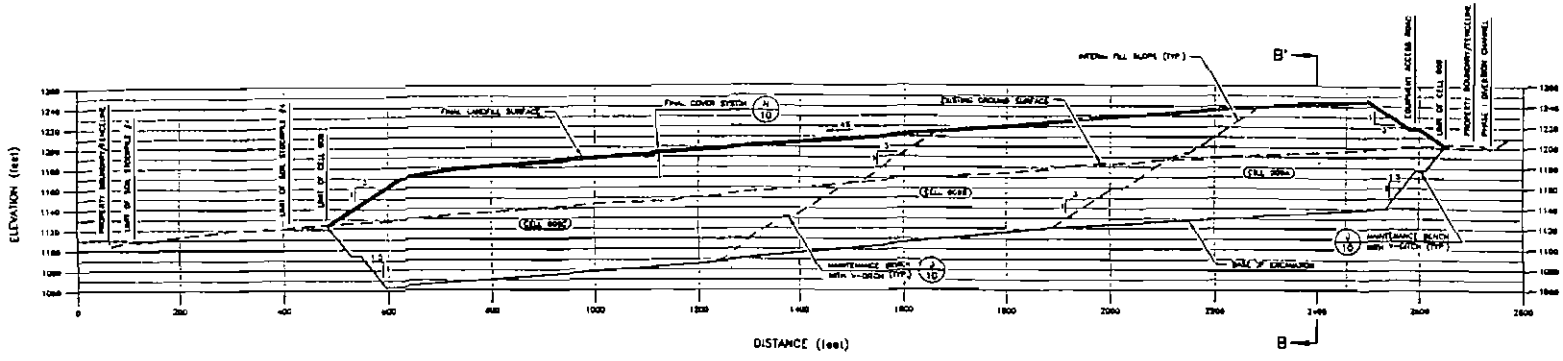
SOLID WASTE FACILITIES PLAN

FINAL GRADING PLAN

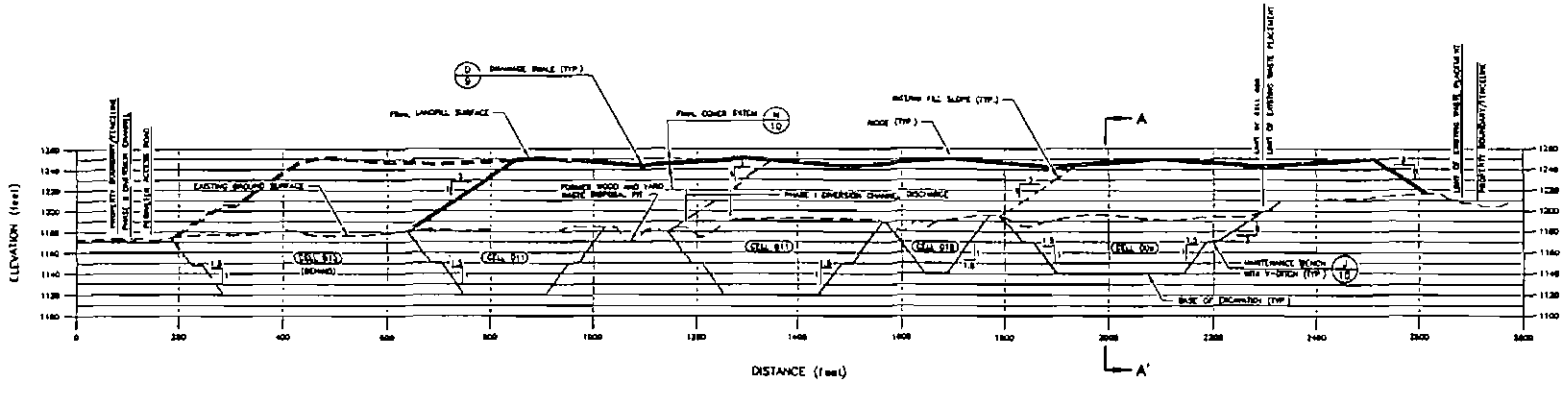
Location NE 1/4, SEC 21, T. 19 N., R. 21 W.

Drawing No. 8 | File Number D-SW-106-B | B

VECTOR ENGINEERING, INC.
1601 Fourteen Dr. Suite E Colorado City, AZ 86021 (702) 565-7966



SECTION A–A'



SECTION B–B'

SCALE
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 50'

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

CROSS SECTIONS

Drawing Number

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 7

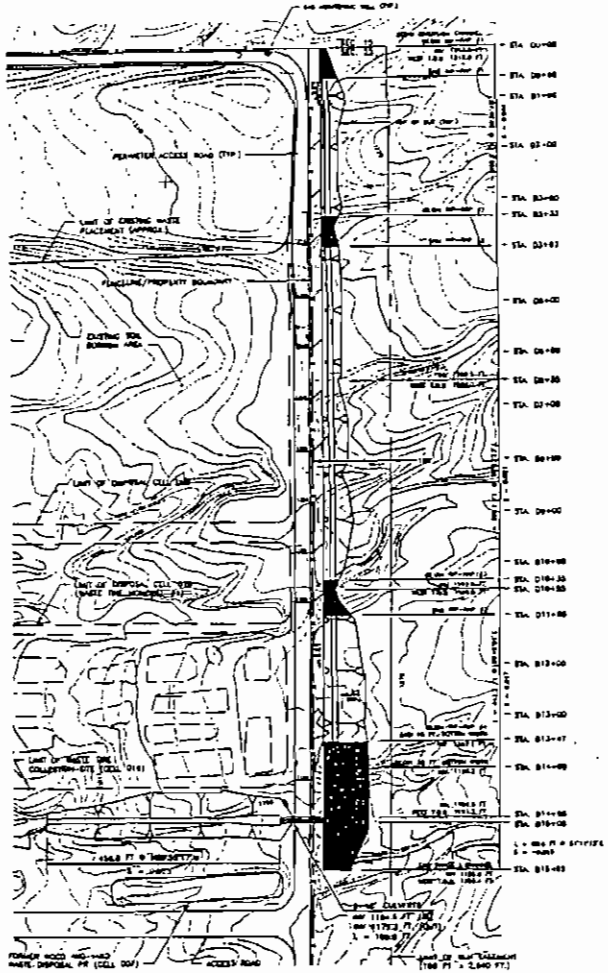
File Name: D-SW-107-B

B

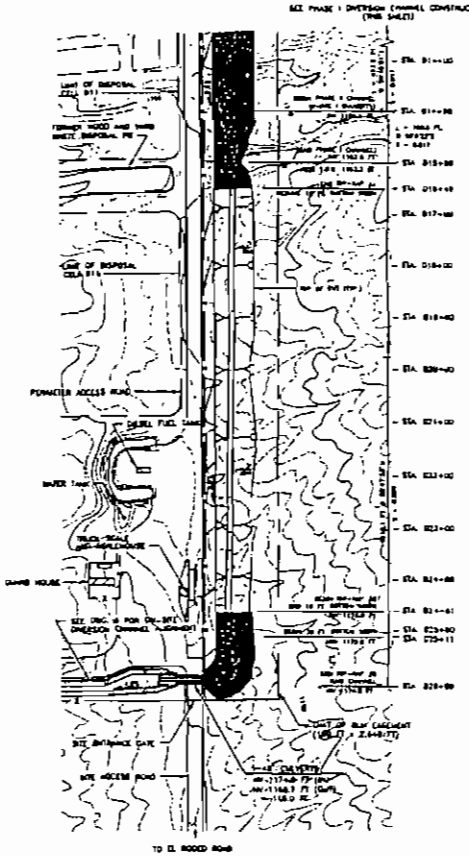
VECTOR ENGINEERING, INC.

Mesa Valley, AZ • El Dorado Hills, CA • Carson City, NV • Denver, CO

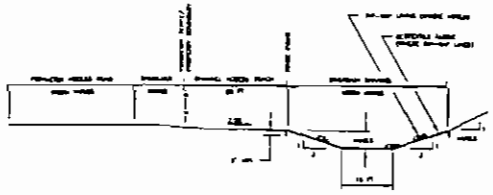
1681 Fairview Dr. Suite B, Carson City, NV 89701 (702) 885-7966



PHASE I DIVERSION CHANNEL CONSTRUCTION



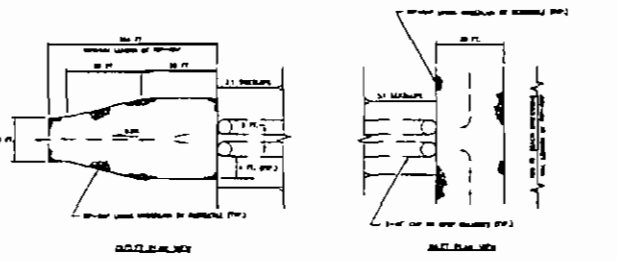
PHASE II DIVERSION CHANNEL CONSTRUCTION

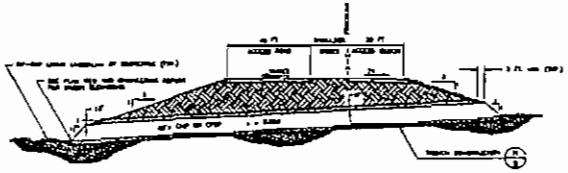


TYPICAL OFF-SITE CHANNEL SECTION

NOTES:

1. RIP-RAP LINING SHALL BE ANGULAR MATERIAL WITH A MEDIAN DIAMETER (d_{50}) OF 6 INCHES
2. RIP-RAP LINING SHALL BE PLACED AT LOCATIONS SHOWN ON PLANS
3. GEOTEXTILE FABRIC SHALL BE INSTALLED IN ALL CHANNEL SECTIONS WHERE RIP-RAP LINING IS INSTALLED





PHASE I CULVERT CROSSING

GRAPHIC SCALE

NORTH

LEGEND

- FENCELINE
- EARTHMOVE EQUIPMENT
- ACCESS ROAD
- EXISTING WASTE FOOTPRINT
- SURFACE SLOPE
- CUT SLOPE (3:1)

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

DIVERSION CHANNEL CONSTRUCTION PLAN

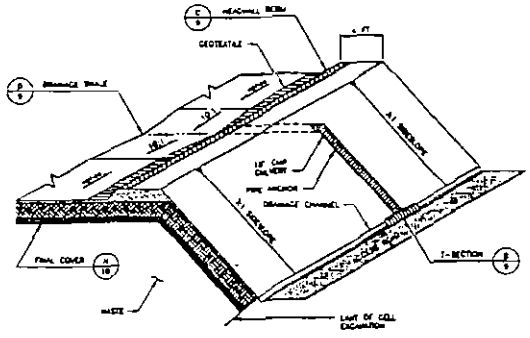
Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 8

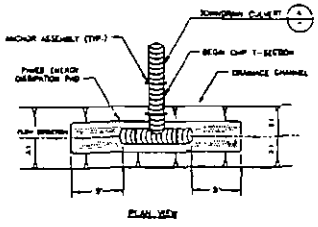
Plot Scale: D-SW-108-8 B

VECTOR ENGINEERING, INC.

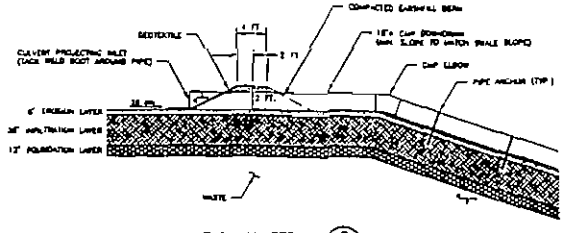
1681 Fairview Dr Suite E. Carson City, NV 89701 (702) 888-7986



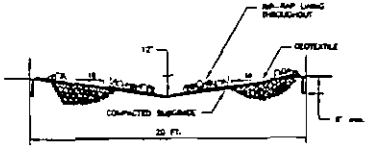
DOWNDRAIN CULVERT – ISOMETRIC VIEW (A) 4.6 11



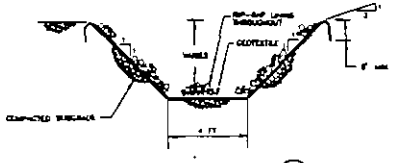
T-SECTION (B) 1



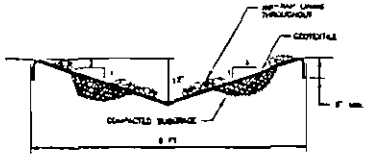
HEADWALL BERM (C) 4.6 11



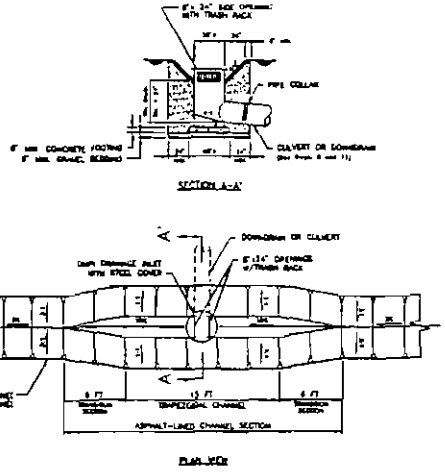
DRAINAGE SWALE (D) 4.6 7,11



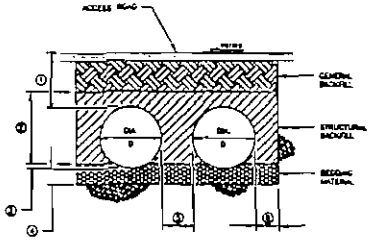
TRAPEZOIDAL DITCH (F) 6



V-DITCH (E) 4.6



DROP INLET (G) 6,10 11



TRENCH CONSTRUCTION (H) 8

NOTE

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

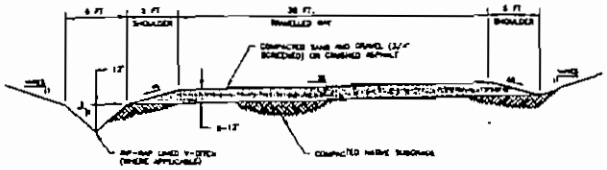
SOLID WASTE FACILITIES PLAN

DETAILS, SHEET 1 OF 2

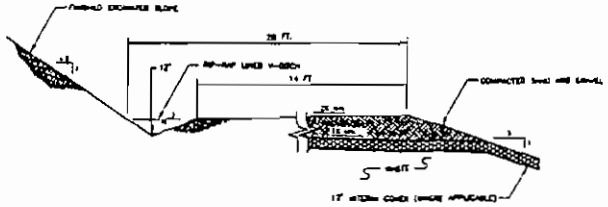
Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 9 File No. D-SW-109-8 B

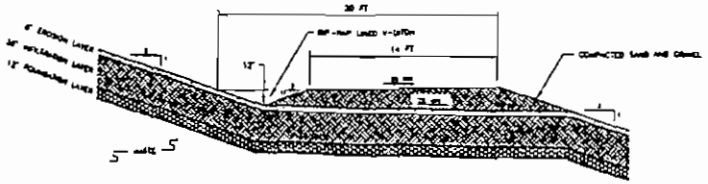
VECTOR ENGINEERING, INC.



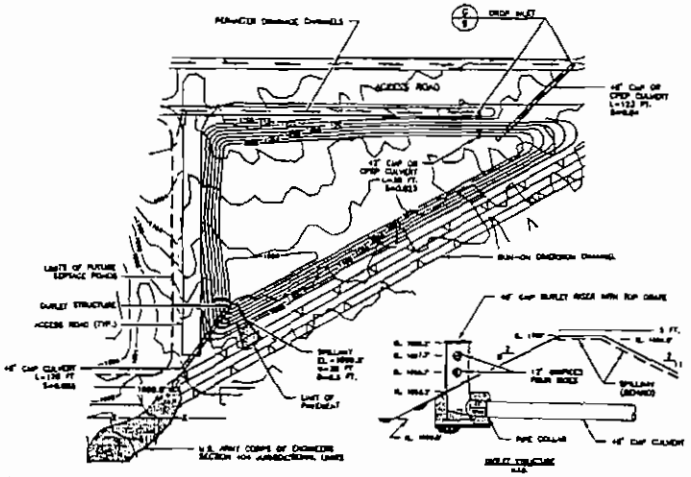
ACCESS ROAD (I, 3,4, 6)



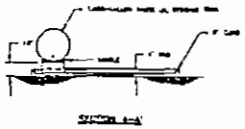
MAINTENANCE BENCH WITH V-DITCH ON EXCAVATED OR INTERIM FILL SLOPES (J, 3,4, 7)

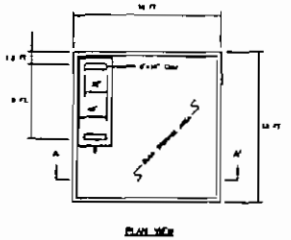


MAINTENANCE BENCH WITH V-DITCH ON FINAL FILL SLOPES (K, 6)

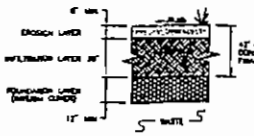


SEDIMENTATION BASIN (L, 5,6, 11)

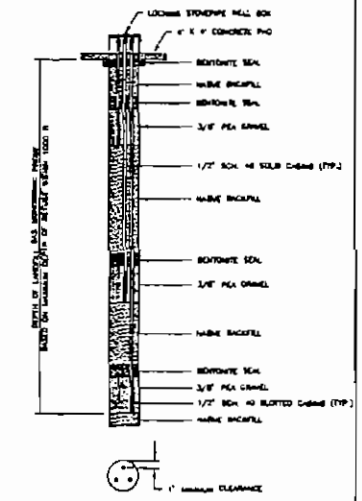




WASTE OIL AND SUSPECT WASTE STORAGE PAD (M, 2)



FINAL COVER (N, 7)



GAS MONITORING WELL (O, 2,5, 6)

NOTE:

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

DETAILS, SHEET 2 OF 2

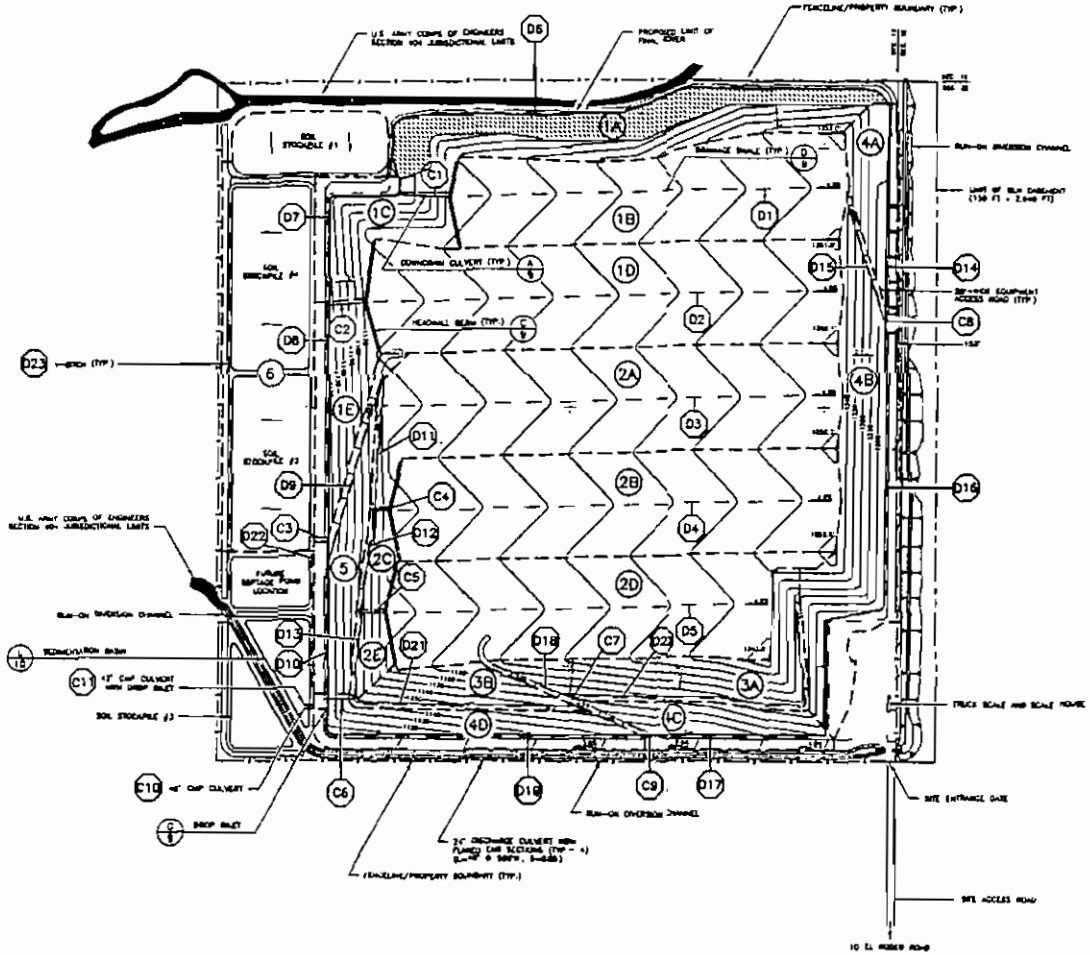
Drawing Name:

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W

Drawing No. 10 | File Name: D-SW-110-B | Sheet 8

VECTOR ENGINEERING, INC.

1881 Fourteen Dr. Suite B, Corona City, NV 89701 (702) 854-7946



NORTH

GRAPHIC SCALE

LEGEND

- FENCELINE/PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- ACCESS ROAD
- STOCKPILE/POND BOUNDARY
- HYDRAULIC SUB-AREA BOUNDARY
- LIMIT OF FILL
- DRAINAGE CHANNEL
- SURFACE SLOPE
- CUT SLOPE (3:1)
- 2B — HYDRAULIC SUB-AREA DESIGNATION
- D4 — DRAINAGE CHANNEL/CULVERT DESIGNATION

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

HYDROLOGIC SUB-AREA LAYOUT

Location NE 1/4, SEC 21, T. 19 N., R. 21 W.

Drawing No. 11 | File Name D-SW-111-0 | B

VECTOR ENGINEERING, INC.

1961 Fairview St., Suite E, Corona Clay, NV 89701 (702) 882-7000

ATTACHMENT B

Sieve Analysis of On-Site Soils

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

RECEIVED
NOV 14 1996

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event / Invoice No. 27460504 Lab No. 1
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type / Use of Material NATIVE
Sample Source / Location COMPOSITE
Reference:

Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch. / Engr. VECTOR ENGINEERING
Supplier / Source NATIVE
Source / Location Desig. By C.ANDEREGG/WTI Date 10/14/96

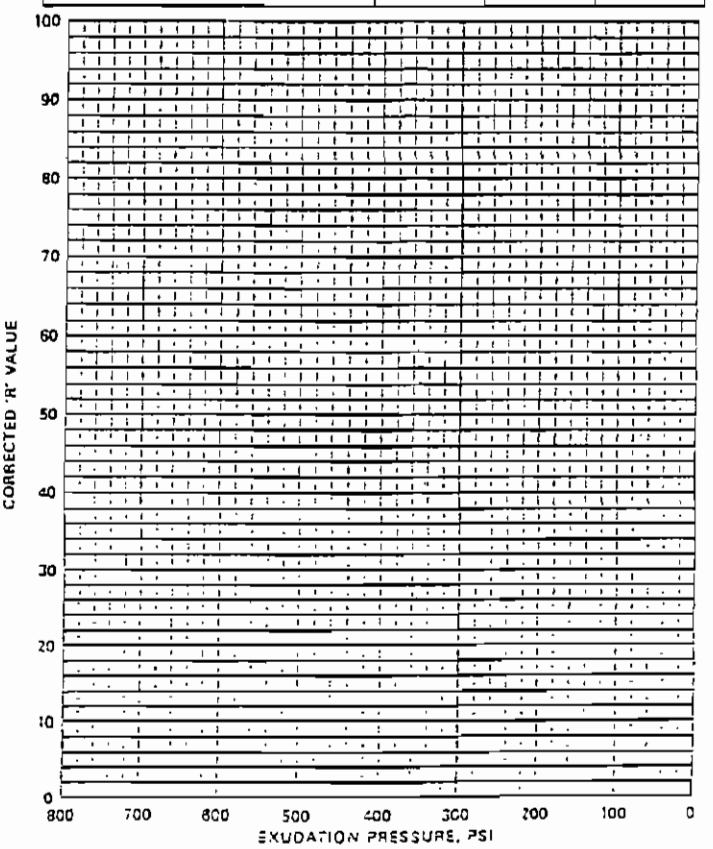
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2	100		
1 1/2	95		
1 1/8			
1	90		
3/4	86		
1/2	80		
3/8	74		
1/4	64		
NO. 4	57		
8	43		
10	41		
16	33		
30	24		
40	21		
50	18		
100	13		
FINER THAN NO. 200 ☐ ASTM D1140 ☒ ASTM C117 ☐ AASHTO T11	8.8		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO. 40
METHOD ☐ A ☐ B

SOIL CLASSIFICATION
☒ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL SP-SM
NAME SAND, WITH SILT AND GRAVEL

Comments:

Copies To: CLIENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT, THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

REVIEWED BY _____

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type/Use of Material NATIVE
Sample Source/Location UNCEMENTED NATIVE
Reference:

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event/Invoice No. 27460504 Lab No. 2
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96

Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch./Engr. VECTOR ENGINEERING
Supplier/Source NATIVE
Source/Location Desig. By C.ANDEREGG/WTI Date 10/14/96

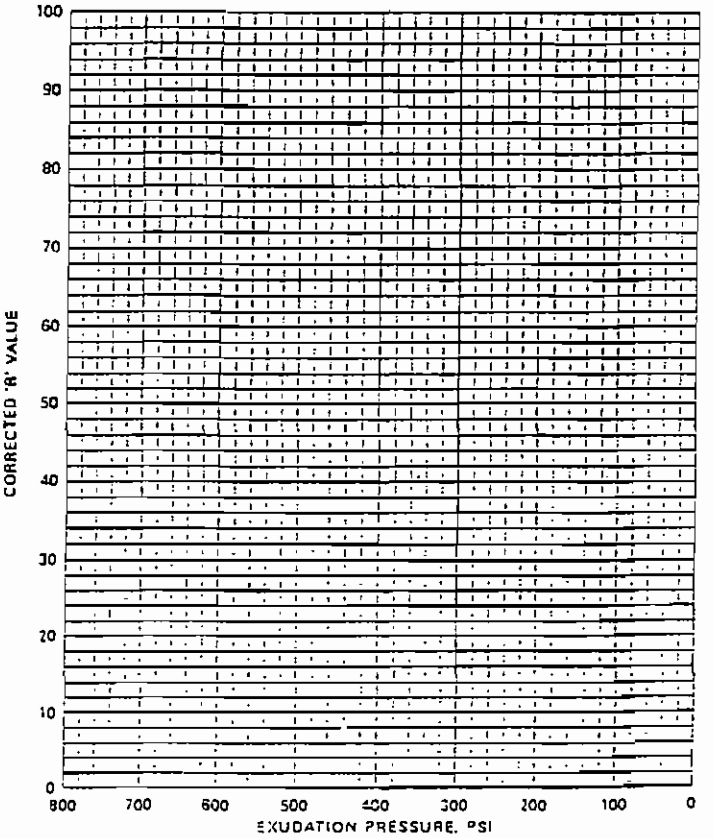
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2			
1 1/2			
1 1/8			
1			
3/4	100		
1/2	94		
3/8	81		
1/4	53		
NO. 4	41		
8	27		
10	24		
16	19		
30	13		
40	10		
50	8		
100	4		
FINER THAN NO. 200 ☒ ASTM D1140 ☐ ASTM C117 ☐ AASHTO T11	2.3		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO 40
METHOD ☐ A ☐ B

SOIL CLASSIFICATION
☐ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL
NAME

Comments:

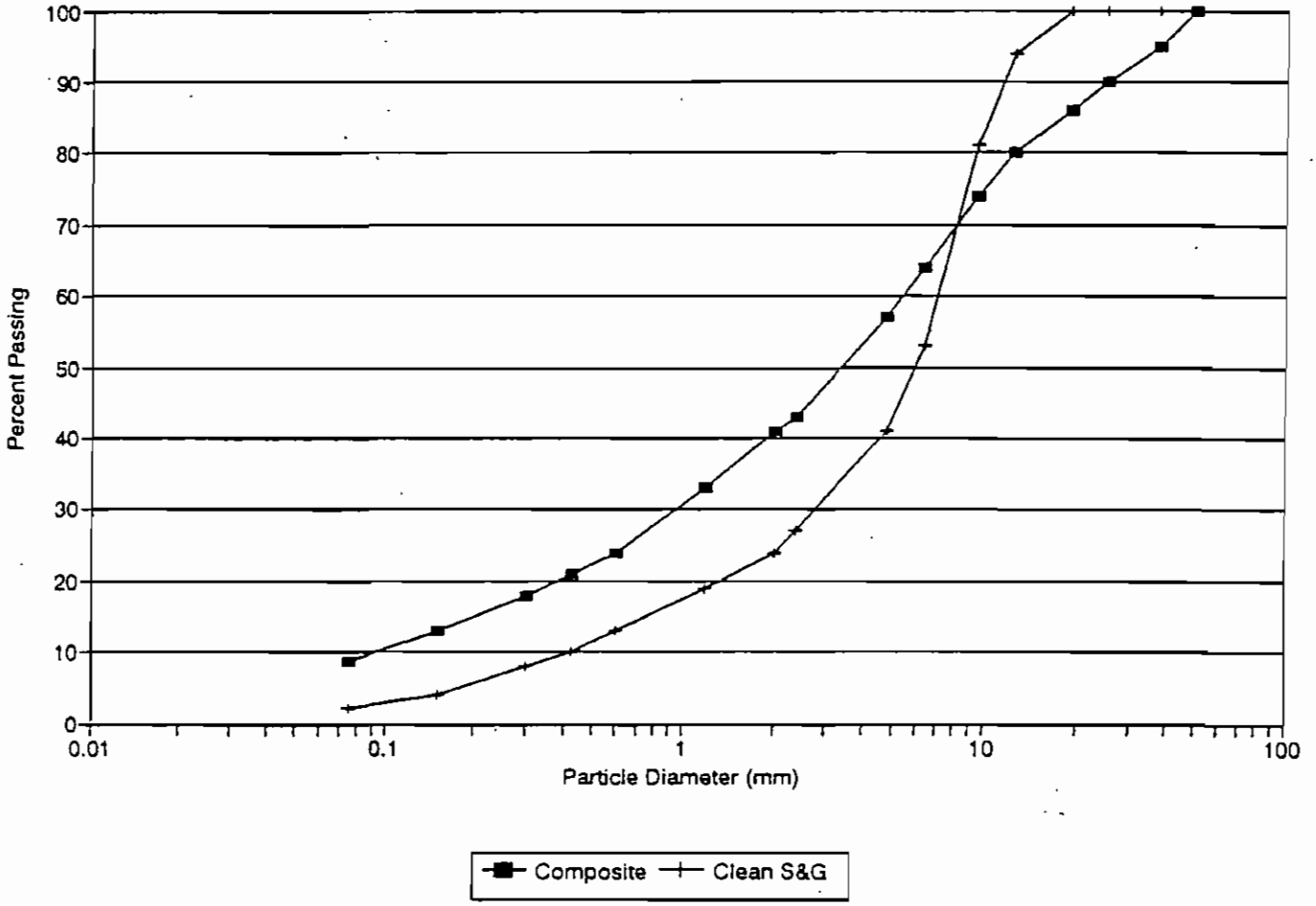
Copies To: CLENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

REVIEWED BY C. Anderegg

Mohave Valley Landfill

Sieve Analyses - WTI

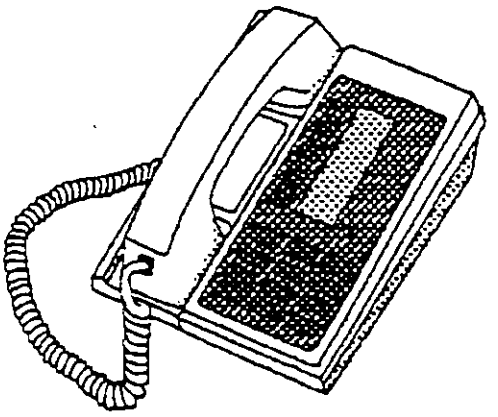


WESTERN TECHNOLOGIES INC.

BULLHEAD CITY, ARIZONA

FACSIMILE TRANSMITTAL

(520) 758-8378 ● FAX 758-1666



- IF TRANSMISSION PROBLEMS OCCUR, CALL THE NUMBER ABOVE -

TO: Evan Nikirk	PAGES INCLUDING THIS SHEET: 1
COMPANY: Vector Engineering	
DATE: 10-28-96	FAX #: 702-883-7161

MESSAGE Here are the field densities and moistures for the Mohave Valley Landfill

Cemented Sand & Gravel:

Dry Unit Weight	124.2 PCF	1.1% Moisture
Clean Sand and Gravel:	119.2 PCF	1.5% Moisture

FROM: Corwin

ATTACHMENT C

Floodplain Administrator Approval

MOHAVE COUNTY PUBLIC WORKS

3675 E. Andy Devine Avenue, Suite C
P.O. Box 7000 KINGMAN, ARIZONA 86402-7000
TELEPHONE (520) 757-0910 FAX (520) 757-0912 TDD 753-0726

Richard A. Skalicky, P.E. Director/County Engineer
M. P. Hendrix, P.E. Asst. Director
Asst. Co. Engineer B. M. Eilers, P.E.
Flood Control K. Budhecha, P.E.
County Surveyor D. W. Walker, R.L.S.
Improvement Districts Z. Wright

March 26th, 1997

Evan Nikirk, P.E.
Project Manager
Vector Engineering, Inc.
1601 Fairview Avenue, Suite H
Carson City, NV 89701

Re: Mohave Valley Landfill Solid Waste Facility Plan

Dear Mr. Nikirk:

I have reviewed the proposed drainage diversion along the east boundary of the landfill site. As designed, the diversion does not appear will have any significant adverse impact on adjacent or downstream property. Further, once proper permits and approvals are obtained, I find this diversion acceptable and not to be in violation of Mohave County's Flood Control Ordinance.

In closing, I have no objection to this diversion project as designed and submitted in the Mohave Valley Landfill Facility Plan that will be dated March 28, 1997.

Sincerely

Richard A. Skalicky

Richard A. Skalicky, P.E.
Mohave County Floodplain Administrator

cc: File

MOHAVE COUNTY FLOOD CONTROL DISTRICT

3675 E. Andy Devine Avenue, Suite C
P.O. Box 7000 KINGMAN, ARIZONA 86402-7000
TELEPHONE (602) 757-0910 FAX (602) 757-0912 TDD 753-0726

July 21, 1997

To Whom it may Concern:

Mohave County's Mohave Valley Landfill, situated on 160 acres, which is situated on 160 acres which is more particularly described as the NE 1/4 of Section 21, Township 19 North, Range 21 West, G&SRBM, Mohave County, Arizona, is not within an area of and therefore not impacted by the 100-year floodplain.

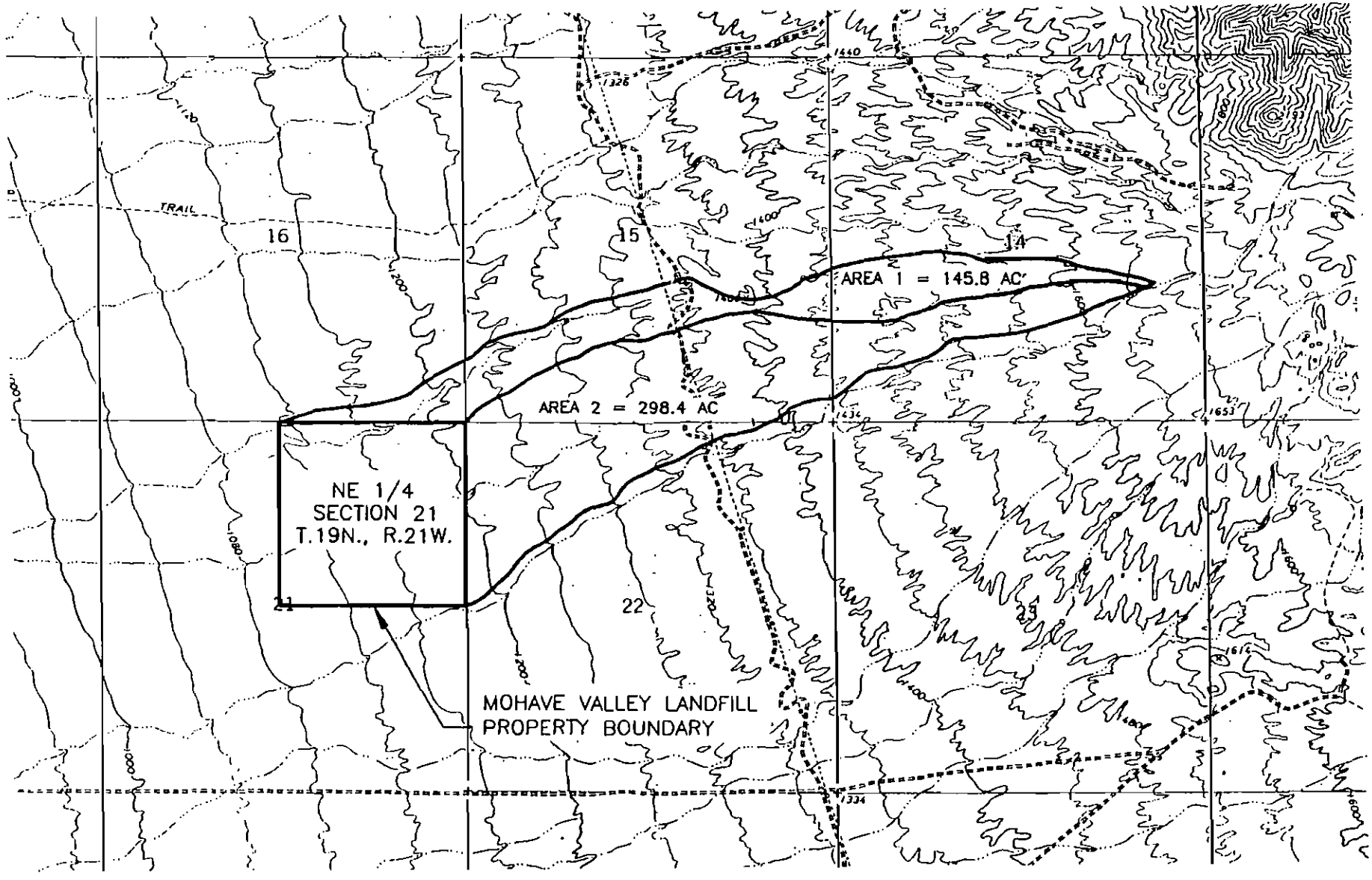
Sincerely,

Richard A. Skalicky

Richard A. Skalicky, P.E.
Mohave County Floodplain Administrator/Manager

ATTACHMENT D

Drainage Design Figures and Tables



BASED ON OATMAN, ARIZONA AND DAVIS DAM S.E. ARIZONA–NEVADA 7.5 MINUTE QUADRANGLE MAPS (1967 & 1970)

NORTH

1000 0 1000 2000 3000

MAP SCALE (in feet)

VECTOR ENGINEERING, INC

Carson City, NV • Grass Valley, CA • El Dorado Hills, CA

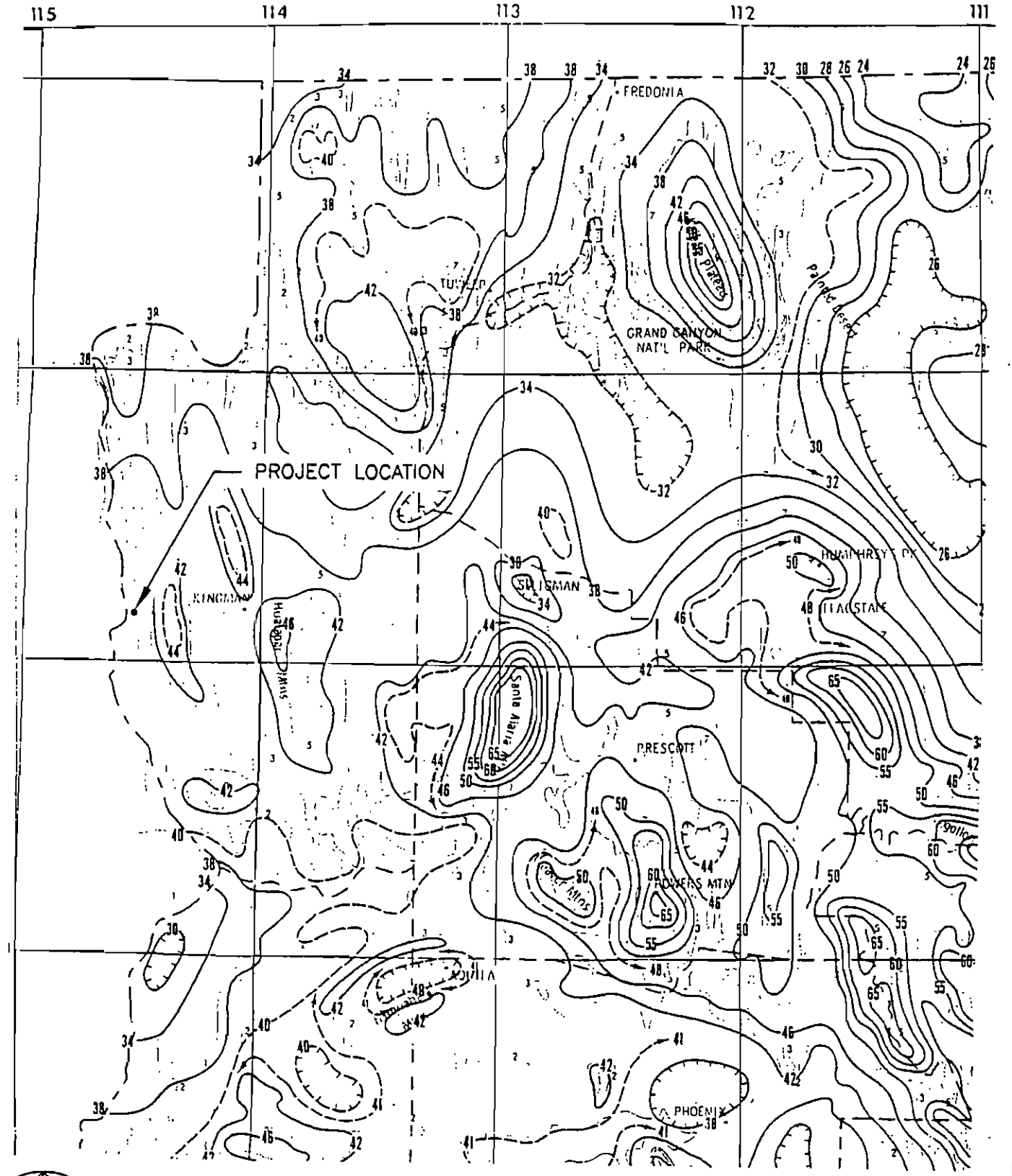
JOB NO. 965014.02 APPR. CEN DATE: 3/26/97

OFF–SITE DRAINAGE AREAS

MOHAVE VALLEY LANDFILL
MOHAVE COUNTY, ARIZONA

FIGURE

8–1



FROM FIGURE 29, NOAA ATLAS 2, VOL. VIII
PRECIPITATION IN TENTHS OF AN INCH.

VECTOR ENGINEERING, INC

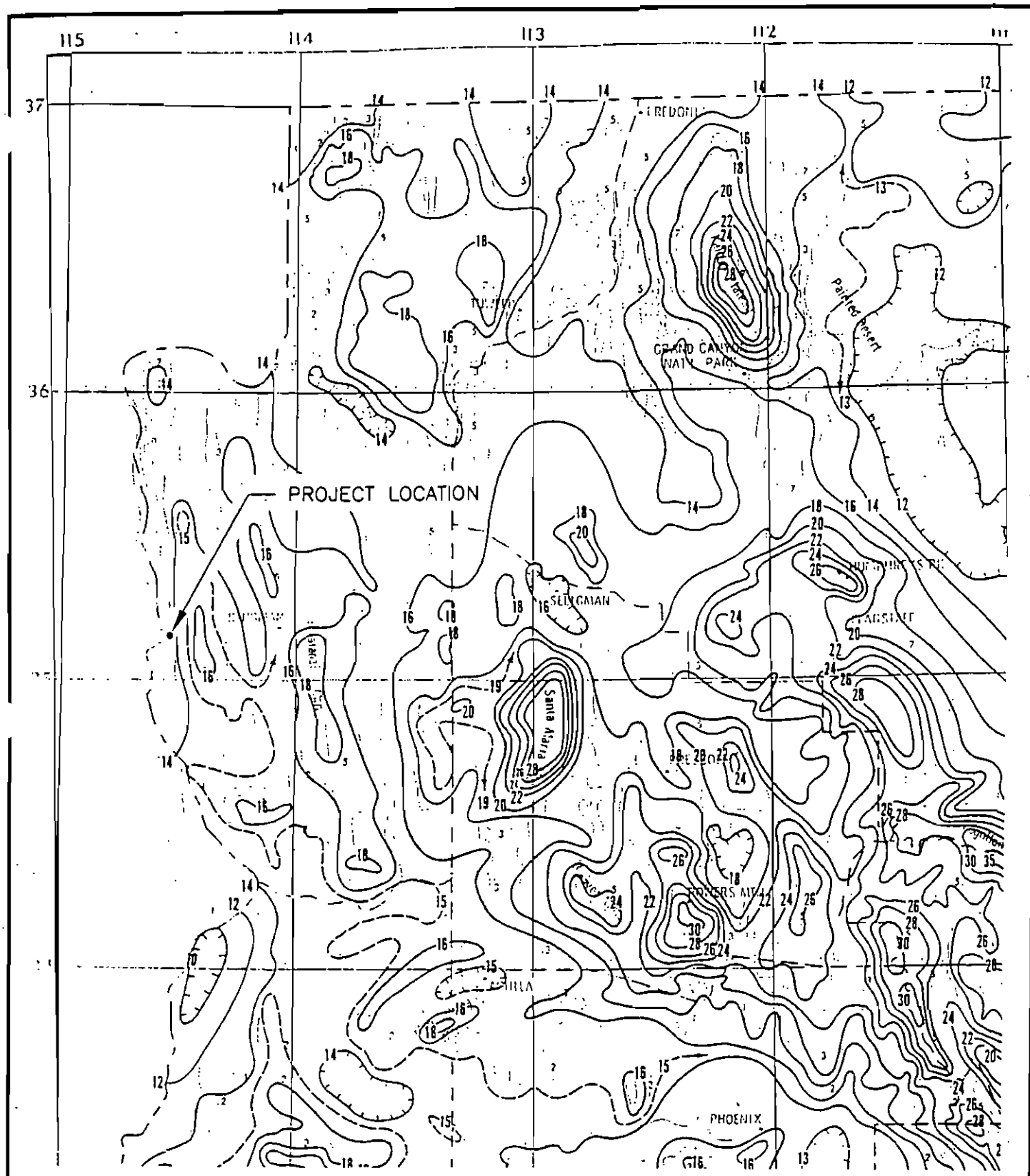
Carson City, NV • Grass Valley, CA • El Dorado Hills, CA

JOB NO. 965014.02 APPR. CEN DATE: 3/25/97

100-YEAR, 24-HOUR PRECIPITATION

MOHAVE VALLEY LANDFILL
MOHAVE COUNTY, ARIZONA

FIGURE
8-2



NORTH
(N.T.S.)

FROM FIGURE 24, NOAA ATLAS 2, VOL. VIII
PRECIPITATION IN TENTHS OF AN INCH.

VECTOR ENGINEERING, INC

Carson City, NV • Grass Valley, CA • El Dorado Hills, CA

JOB NO. 965014.02 APPR. CEN DATE: 3/26/97

2-YEAR, 24-HOUR PRECIPITATION

MOHAVE VALLEY LANDFILL
MOHAVE COUNTY, ARIZONA

FIGURE
8-3

Exhibit A-1, continued: Hydrologic soil groups for United States soils

CHOBEE, LIMESTONE SUBSTRATUM	D	CLALLAM	C	CLIPPER	D	COKEL	B	COLVIN, OVERFLOWN, SALINE	C		
CHOCCOLOCCO	B	CLAM GULCH	D	CLIPPER, DRAINED	C	COKER	D	COLWOOD	B/D		
CHOCK	D	CLAMO	C/D	CLODINE	D	COKESBURY	D	COLY	B		
CHOCORUA	B	CLAMP	D	CLONTARF	E	COKEVILLE	B	COLYER	B/D		
CHOICE	D	CLANA	A	CLOQUALLUM	C	COLAND	C	COMAD	A		
CHOOP	D	CLANALPINE	C	CLOQUATO	B	COLBAR	C	COMAR	C		
CHORTIE	D	CLANTON	C	CLOQUET	B	COLBERT	C	COMBE	E		
CHORALMONT	B	CLAPPER	B	CLOSKEY	C	COLBURN	C	COMBS	B		
CHOSKA	B	CLAREMORE	D	CLOTHO	C/D	COLBY	B	COMER	B		
CHOTEAU	C	CLARENCE	D	CLOUD PEAK	C	COLDCREEK	B	COMETA	D		
CHOWAN	D	CLARENDON	C	CLOUD RIM	B	COLDENT	C	COMFORT	D		
CHRIS	C	CLARESON	C	CLOUDCROFT	D	COLE	C	COMFREY	B/D		
CHRISMAN	D	CLAREVILLE	C	CLOUDLAND	C	COLEMAN	C	COMFREY, PONDED	D		
CHRISTIAN	C	CLARINDA	D	CLOUGH	D	COLEMANTOWN	C/D	COMITAS	A		
CHRISTIANA	C	CLARION	B	CLOVELLY	D	COLESTINE	C	COMLY	C		
CHRISTIANBURG	C	CLARITA	D	CLOVER SPRINGS	B	COLFAX	C	COMMERCE	C		
CHRISTINE	D	CLARK	B	CLOVERDALE	D	COLHILL	B	COMMSKI	B		
CHRISTOFF	C	CLARK FORK	A	CLOVERLAND	C	COLIBRO	B	COMO	A		
CHRISTY	C	CLARKELEN	B	CLOVIS	B	COLINAS	B	COMPAGRE	D		
CHRODDER	B	CLARKRANGE	C	CLOWERS	B	COLITA	D	COMPOOKE	D		
CHROME	C	CLARKSBURG	C	CLOWERS, WET	C	COLLAMER	C	COMRO	B		
CHRYSLER	C	CLARKSDALE	C	CLOWFIN	B	COLLARD	E	COMPASS	B		
CHUALAR	B	CLARKSVILLE	B	CLUFF	C	COLLAYOMI	B	COMPTCHE	B		
CHUBBS	C	CLARNO	A	CLUNIE	C	COLLBRAN	D	COMSTOCK	C		
CHUCKANUT	B	CLAYD	B	CLUPOE	B	COLLBRAN, CCOBLY	C	COMUS	B		
CHUCKAWALLA	B	CLAYSOR	D	CLURO	B	COLLEGEDALE	C	CONA	C		
CHUCKLES	B	CLAYUCHA	B	CLYDE	B/D	COLLEGIATE	D	CONABY	B/D		
CHUCKRIDGE	D	CLAYBACK	C	CLYMER	B	COLLETT		CONALB	B		
CHUGCREEK	C	CLAVICON	C	COACHELLA	B	COLLETT, DRAINED	C	CONANT	C		
CHUGTER	B	CLAWSON	C	COACHELLA, WET	C	COLLIER	A	CONASAUGA	C		
CHUIT	B	CLAYBURN	D	COAHUILA	B	COLLINGTON	B	CONATA	D		
CHULITNA	B	CLAYSPRINGS	D	COAL CREEK	D	COLLINS	C	CONBOY	D		
CHUMALL	B	CLAYTON	B	COALBANK	B	COLLINSTON	D	CONCEPCION	D		
CHUMNY	D	CLE ELUM	C	COALDALE	D	COLLINSVILLE	D	CONCHAS	C		
CHUMSTICK	D	CLEAR LAKE	D	COALORAN	D	COLLINWOOD	C	CONCHO	C		
CHUPADERA	C	CLEAR LAKE, STRATIFIED	C	COALMONT	C	COLMA	B	CONCONULLY	B		
CHURCH	D	CLEAR LAKE, SUBSTRATUM		COAMO	C	COLMOR	B	CONCOPO	D		
CHURCHILL	D	CLEAR LAKE, MODERATELY WET	C	COARSEGOLD	C	COLNEVEE	B	CONDA	B		
CHURCHVILLE	D	CLEARBROOK		COATSBURG	D	COLO	B/D	CONDIE	B		
CHURN	B	CLEARFIELD	D	COBAT	B	COLO, DRAINED	B	CONDIT	D		
CHUSKA	D	CLEARFORK	C	COBB	C	COLO, NONFLOODED	B	CONDON	C		
CHUTE	A	CLEARWATER	D	COBBSFORK	B	COLOCRUM	E	CONE	A		
CIALES	D	CLEAVAGE	D	COBEN	D	COLOMA	A	CONECUH	D		
CIBECUE	B	CLEAVER	D	COBLE	D	COLOMBO	D	CONEJO	B		
CIBO	D	CLEAVES	D	COBLE	F	COLONA	C	CONEJO, WET	C		
CIBOLA	B	CLEAVMOR	D	COBOC	D	COLONIE	A	CONEJO, GRAVELLY SUBSTRATUM	C		
CID	C	CLEBIT	C	COBRE	C	COLONVILLE	C				
CIDRAL	C	CLEGG	D	COBURG	B	COLORADO	B	CONESTOGA	B		
CIENEBA	C	CLEGHORN	C	COCHETOPA	C	COLOROCK	D	CONESUS	B		
CIENO	D	CLENAM	B	COCHINA	D	COLORON	B	CONETOE	A		
CIERVO, ALKALI	D	CLEMENTINE	C	COCHITI	C	COLOSSE	D	CONGAREE	B		
CIERVO, ALKALI, WET	D	CLEMENTINE, DRAINED	B	COCHPAM	C	COLP	A	CONGER	C		
CIERVO, RECLAIMED	C	CLEMS	B	COCOA	A	COLRAIN	B	CONGER, CCBBLY SUBSTRATUM	C		
CIFIC	C	CLEMVILLE	B	COCOORIE	C	COLSAVAGE	C	CONGLE	D		
CIMARRON	C	CLEMOSMEN	D	COCOLALLA	D	COLTER	B	CONI	B		
CINCINNATI	C	CLEONE	B	COCOLALLA, DRAINED	C	COLTHORP	D	CONIC	D		
CINCO	A	CLEORA	B	CODLEY	B	COLTON	A	CONLEN	C		
CINDERHURST	D	CLERF	C	CODORUS	C	COLTROOP	D	CONLEY	B		
CINEBAR	B	CLERGERN	B	CODOUIN	D	COLTS NECK	B	CONMEAUT	C		
CINNABAR	D	CLERMONT	D	CODYLAKE	B	COLUMBIA, MUCK SUBSTRATUM	B	CONNEL	C		
CINNADALE	D	CLEVELAND	C	COE	A	COLUMBIA, DRAINED, CLAY SUBSTRATUM	B	CONNERTON	B		
CINNAMON	B	CLEVERLY	B	COERGCK	D	COLUMBIA, FLOODED	C/D	CONOSTA	C		
CINTRONA	D	CLICK	B	COESSE	C	COLUMBIA, MODERATELY WET	C	CONOTTON	B		
CIRCLEBACK	A	CLIFFDELL	C	COFF	B	COLUMBIA, PONDED	B	CONOVER	C		
CIRCLEBAR	C	CLIFFDOWN	B	COFFEEN	F	COLUMBIA, SLOPING	B	CONOWINGO	C		
CIRCLEVILLE	C	CLIFFHOUSE	B	COGGON	B	COLUMBINE	A	CONPEAK	D		
CISCO	B	CLIFFORD	C	COGNA	B	COLUMBUS	C	CONRAD	A/D		
CISNE	D	CLIFFSAND	C	COGS-ELL	C	COLUSA	C	CONROE	B		
CISPUS	B	CLIFFTERSON	B	COMAGEN	D	COLVARD	B	CONSEJO	C		
CITADEL	C	CLIFTON	B	COMASSET	E	COLVILLE	D	CONSER	D		
CITICO	B	CLIFTY	B	COMCTAM	B/D	COLVILLE, DRAINED	C	CONSTABLE	A		
CITRONELLE	D	CLIMARA	B	COMCTAM, SANDY SUBSTRATUM	D	COLVIN	C/D	CONSTANCIA	D		
CLACKAMAS	D	CLIMAX	D	COMOE	B	COLVIN, SALINE	C	CONSUMO	B		
CLAIBORNE	B	CLINE	C	COILS	C	CONTACT	A				
CLAIRE	A	CLINETOP	D	CCIT	D	CONTEE	D				
CLAIREMONT	B	CLINT	C	COKEDALE	D	CONTIOE	B				
		CLINTON	B	COKEDALE, DRAINED	C	CONTINE	C				

NOTES: TWO HYDROLOGIC SOIL GROUPS SUCH AS B/C INDICATES THE DRAINED/UNDRAINED SITUATION. MODIFIERS SHOWN, E.G., BEDROCK SUBSTRATUM, REFER TO A SPECIFIC SOIL SERIES PHASE FOUND IN SOIL MAP LEGEND.

From "Urban Hydrology for Small Watersheds." USDA. SCS TR-55. 1986.

Table 2-2d.—Runoff curve numbers for arid and semiarid rangelands[1]

Cover description		Curve numbers for hydrologic soil group—			
Cover type	Hydrologic condition[2]	A[3]	B	C	D
Herbaceous—mixture of grass, weeds, and low-growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak-aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor		66	74	79
	Fair		48	57	63
	Good		30	41	48
Pinyon-juniper—pinyon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

[1]Average runoff condition, and $I_a = 0.2S$. For range in humid regions, use table 2-2c.

[2]*Poor:* <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: >70% ground cover.

[3]Curve numbers for group A have been developed only for desert shrub.

From "Urban Hydrology for Small Watersheds." USDA, SCS TR-55, 1986.

SUMMARY OF HYDROLOGIC ANALYSES

Mohave Valley Landfill

Time Elapsed (1)	Estimated Run-Off Flows by Sub-Area for 100-Year, 24-Hour Event, in cfs (2)																					Total Flows at Basin
	Sub-Area 1						Sub-Area 2						Sub-Area 3			Sub-Area 4					Sub-Area 5		
(hr)	1A	1B	1C	1D	1E	Total	2A	2B	2C	2D	2E	Total	3A	3B	Total	4A	4B	4C	4D	Total	5	Total	(cfs)
11.0	0	1	0	1	0	2	1	1	0	1	0	3	0	0	0	0	0	0	0	0	0	0	5
11.3	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
11.6	1	1	0	1	0	3	2	2	0	1	0	5	0	0	0	0	1	0	0	1	0	0	9
11.9	2	2	1	3	3	11	8	8	1	7	1	25	2	2	4	0	2	1	2	5	3	3	48
12.0	4	5	3	6	6	24	17	16	2	14	2	51	5	4	9	1	4	3	4	12	7	7	103
12.1	8	10	6	13	10	47	33	31	3	28	3	98	9	7	16	1	8	5	8	22	11	11	194
12.2	13	20	10	27	6	76	37	35	2	31	2	107	10	4	14	2	16	9	9	36	6	6	239
12.3	16	25	8	34	2	85	23	22	1	19	1	66	6	2	8	4	20	8	6	38	2	2	199
12.4	14	20	4	27	2	67	12	12	0	10	0	34	3	1	4	5	16	4	3	28	2	2	135
12.5	11	13	3	17	1	45	8	8	0	7	0	23	2	1	3	4	10	2	2	18	1	1	90
12.6	8	8	2	11	1	30	6	6	0	5	0	17	2	1	3	3	7	2	2	14	1	1	65
12.7	6	6	1	8	1	22	5	5	0	4	0	14	1	1	2	2	5	1	1	9	1	1	48
12.8	4	5	1	6	1	17	4	4	0	4	0	12	1	1	2	2	4	1	1	8	1	1	40
13.0	3	3	1	4	1	12	4	3	0	3	0	10	1	1	2	1	3	1	1	6	1	1	31
13.2	2	3	1	4	1	11	3	3	0	3	0	9	1	0	1	1	2	1	1	5	1	1	27
13.4	2	2	1	3	1	9	3	3	0	2	0	8	1	0	1	1	2	1	1	5	1	1	24
13.6	2	2	1	3	1	9	3	2	0	2	0	7	1	0	1	0	2	1	1	4	1	1	22
13.8	1	2	1	2	0	6	2	2	0	2	0	6	1	0	1	0	1	1	1	3	0	0	16
14.0	1	2	1	2	0	6	2	2	0	2	0	6	1	0	1	0	1	0	1	2	0	0	15
14.3	1	1	0	2	0	4	2	2	0	2	0	6	0	0	0	0	1	0	0	1	0	0	11
14.6	1	1	0	2	0	4	2	2	0	1	0	5	0	0	0	0	1	0	0	1	0	0	10
15.0	1	1	0	2	0	4	2	1	0	1	0	4	0	0	0	0	1	0	0	1	0	0	9
15.5	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
16.0	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
16.5	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
17.0	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
17.5	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
18.0	1	1	0	1	0	3	1	1	0	1	0	3	0	0	0	0	1	0	0	1	0	0	7
Peak	**16**	**25**	**10**	**34**	**10**	**85**	**37**	**35**	**3**	**31**	**3**	**107**	**10**	**7**	**16**	**5**	**20**	**9**	**9**	**38**	**11**	**11**	**239**

Notes:

1. Time elapsed since beginning of storm event, in hours.
2. Complete results of each hydrograph are not included in this summary.
3. See attached data sheets for input and output details.

SUMMARY OF HYDRAULIC DESIGN
Mohave Valley Sanitary Landfill

	Open Channel Flow								Closed Conduit Flow					
Description	Channel Number	Contributing Sub-Areas	Lining	Slope	Peak Flow (cfs)	Flow Depth (ft)	Velocity (fps)	Design Depth (ft)	Culvert Number	Diameter (ft)	Slope	Peak Flow (cfs)	Flow Depth (ft)	Velocity (fps)
Swale	D1	1B	Rip-Rap	4.0%	25	0.8	4.4	1.0						
Swale	D2	1D	Rip-Rap	4.0%	34	0.8	4.8	1.0						
Swale	D3	2A	Rip-Rap	4.0%	37	0.9	4.9	1.0						
Swale	D4	2B	Rip-Rap	4.0%	35	0.9	4.8	1.0						
Swale	D5	2D	Rip-Rap	4.0%	31	0.8	4.7	1.0						
V-Ditch	D6	1A	Rip-Rap	3.0%	16	1.1	4.7	1.5						
V-Ditch	D7	1A-1C	Rip-Rap	2.5%	49	1.7	5.8	2.0						
V-Ditch	D8	1A-1E	Rip-Rap	2.5%	85	2.1	6.6	2.1						
V-Ditch	D9	5	Rip-Rap	10.0%	11	0.7	6.7	1.0						
V-Ditch	D10	5	Rip-Rap	2.5%	11	1.0	4.0	1.0						
Trap. Ditch	D11	2A	Rip-Rap	3.0%	37	1.1	6.4	1.5						
Trap. Ditch	D12	2A-2C	Rip-Rap	3.0%	74	1.7	7.8	2.0						
Trap. Ditch	D13	2A-2E	Rip-Rap	3.0%	107	2.1	8.6	2.1						
V-Ditch	D14	4A	Rip-Rap	2.0%	5	0.8	3.0	1.0						
V-Ditch	D15	4B	Rip-Rap	10.0%	20	0.9	7.8	1.0						
V-Ditch	D16	4A & 4B	Rip-Rap	2.0%	24	1.3	4.4	1.5						
V-Ditch	D17	4A-4C	Rip-Rap	2.6%	32	1.4	5.3	1.5						
V-Ditch	D18	4C	Rip-Rap	5.9%	9	0.8	5.2	1.0						
V-Ditch	D19	4A-4D	Rip-Rap	3.8%	38	1.4	6.3	1.5						
V-Ditch	D20	3A	Rip-Rap	3.0%	10	0.9	4.2	1.0						
V-Ditch	D21	3A & 3B	Rip-Rap	3.0%	16	1.1	4.7	1.5						
Trap. Ditch	D22	1A - 1E	Rip-Rap	0.5%	85	2.9	4.2	3.0						
Trap. Ditch	D23	6	Rip-Rap	2.5%	33	1.1	5.8	1.5						
CMP Culvert		1B							C1	1.5	16.7%	25	1.4	14.6
CMP Culvert		1D							C2	1.5	33.3%	34	1.3	21.1
CMP Culvert		1A-1E							C3	3.5	2.5%	85	2.8	10.2
CMP Culvert		2B							C4	1.5	33.3%	35	1.4	20.9
CMP Culvert		2D							C5	1.5	33.3%	31	1.2	21.1
CMP Culvert		2, 3							C6	2.5	33.3%	121	1.9	29.7
CMP Culvert		2, 3							C6	3.0	12.0%	121	2.4	20.2
CMP Culvert		3A							C7	1.5	23.3%	10	0.6	14.3
CMP Culvert		4A							C8	1.5	2.0%	5	0.9	4.8
CMP Culvert		4A-4C							C9	2.5	2.6%	38	2.2	8.2
CMP Culvert		2, 3, 4, 5							C10	4.0	4.0%	163	3.5	14.0
CMP Culvert		1A - 1E							C11	3.5	2.5%	85	2.8	10.2

Notes:
1. Refer to Figures 8 and 9 for channel and culvert designations and locations.
2. See attached TR-55 and Flowmaster data sheets for input and output details.

ATTACHMENT E

Hydrogeologic Report

BASIN & RANGE HYDROGEOLOGISTS

TECHNICAL MEMORANDUM

TO: Michael P. Hendrix, P.E.
Mohave County Public Works

FROM: BASIN & RANGE HYDROGEOLOGISTS, INC. and Vector Engineering, Inc.

DATE: June 24, 1993

SUBJECT: CONCEPTUAL HYDROGEOLOGIC MODEL OF MOHAVE VALLEY LANDFILL SITE

REGIONAL HYDROGEOLOGIC SETTING

Geography, Climate and Vegetation

The Mohave Valley Landfill is located within Mohave Valley, a northwest-trending alluvial valley within the Basin and Range Physiographic Province. The Landfill site is situated at an average elevation of about 1150 feet above mean sea level (MSL) on a west-sloping alluvial fan flanking the Colorado River (*Exhibit 1*). About 3.8 miles northeast of the Landfill, a ridge of the Black Mountains rises to an elevation of 3000 feet above MSL. The main crest of the Black Mountains lies approximately 11 miles northeast of the Landfill, and contains peaks that rise over 5000 feet above MSL.

Temperatures in Mohave Valley range from 41° to 80° (F) in the winter months, and 71° to 112° (F) in the summer months. The area experiences an average of 117 days per year when temperatures exceed 100°F, and 3 days per year when temperatures drop below 32°F. Average annual precipitation in the Valley is about 5 to 6 inches on the Colorado River floodplain and piedmont slopes, and about 10 inches within mountain front areas. Most of the rain occurs during the winter and late summer as a result of high intensity storms (*Metzger and Loeltz, 1973*). Predominant vegetation in the vicinity of the Mohave Valley Landfill is Creosote Bush, White Bursage, White Brittlebush, and Triangle Bursage. The density of vegetative cover typically is less than ten percent.

Regional Geology

The primary geologic features in the vicinity of the Mohave Valley Landfill are the Black Mountains and the Mohave Valley Basin (*Exhibit 1*). According to BASIN & RANGE's interpretation of the "Geologic Map of Arizona" by S.J. Reynolds (1988), the Black Mountains are composed primarily of Oligocene to Miocene volcanic rocks, although areally restricted outcrops of Tertiary granite and Early Proterozoic rocks are present in places. The Black Mountains were elevated to their present position during periods of intense faulting and erosional activities which resulted in the

formation of the Basin and Range Physiographic Province during the Miocene and Pliocene epochs *(Dickinson, 1989)*.

The Mohave Valley Basin originated during the Miocene and Pliocene periods of geologic faulting described above. The basin floor probably is composed of rocks that are similar to those in the adjacent Black Mountains. The basin contains accumulations of sediments that have been subdivided by local workers into a Miocene(?) basal fanglomerate consisting of cemented sand, gravel and silt; the Pliocene Bouse Formation consisting of sand, clay limestone and tufa; and Late Pliocene to Holocene alluvium consisting of sand, gravel, silt and clay (*Metzger and Loeltz, 1973*). Deposition of the Miocene(?) basal fanglomerate pre-dated development of the modern Colorado River, and may have occurred in response to formation of the Mohave Valley Basin. The Pliocene Bouse Formation was deposited in response to initial formation of the Gulf of California and a rift embayment in westernmost Arizona (*Dickinson, 1989*). The Late Pliocene to Holocene alluvium was deposited by the tributaries and trunk stream of the Colorado River, which occupied the previously formed rift embayment approximately 5 million years ago (*Dickinson, 1989*).

Regional Ground Water Occurrences and Flow Patterns

The subsurface hydrology of Mohave Valley is summarized in a report on the geohydrology of the Needles Area by D. G. Metzger and O. J. Loeltz (1973). That report indicates that Mohave Valley is underlain by an elongate north-south oriented ground-water reservoir that coincides areally with the Colorado River. A contour map of water levels collected from 1962 to 1969 is shown in *Exhibit 2*.

Metzger and Loeltz (1973) indicate that sources of recharge to the aquifer underlying Mohave Valley are the Colorado River, precipitation and irrigation water supplied to the mountains and alluvial plains flanking the Colorado River, and underflow from bordering areas. The authors reported that the Colorado River represents the principal source of recharge.

According to Metzger and Loeltz (1973), the water-bearing geologic units in the Mohave Valley area are the Miocene(?) fanglomerate, the Pliocene Bouse Formation, and the Late Pliocene to Holocene alluvium of the Colorado River and its tributaries (described above). The authors stated that there is no evidence to indicate any sizable potential for ground-water development in the bedrock. As an example, they cite one of the few local wells known to be producing from bedrock; the well was drilled into consolidated Tertiary sedimentary rocks and delivered a maximum yield of 1.5 gallons per minute.

Regional Surface Water Features

Surface water features in Mohave Valley include a number of east-west oriented ephemeral streams and the Colorado River. The ephemeral streams drain the Black Mountains during infrequent periods of intense rain, and flow west-southwest across alluvial fans into the Colorado River. The stretch of the Colorado River closest to the Mohave Valley Landfill is located 6.5 miles east of the Landfill site. At that location, the Colorado River is highly sinuous in form, and its riverbanks are situated at an average elevation of approximately 500 feet above MSL.

CONCEPTUAL MODEL OF SITE HYDROGEOLOGY

Soils

A soil survey of Mohave County was performed by Richmond and Richardson (1974). According to that survey, the general area containing the Mohave Valley Landfill is characterized by predominantly hyperthermic arid soils. This is a broad grouping of soils with mean annual soil temperatures of more than 72° F that are subject to less than 10 inches of annual precipitation. The Landfill site is situated on a sloping alluvial fan that is mantled by Laveen-Carrizo-Antho Association soils; this Association is described below.

The Laveen-Carrizo-Antho Association is comprised of about 40 percent Laveen soils, 25 percent Carrizo soils, 25 percent Antho soils, and 10 percent other miscellaneous soil types. Laveen soils have pale brown surface layers 10 to 15 inches thick. Those surface layers overlie brown loam substrata containing many soft to hard masses of lime to a depth of 60 inches or greater. Local areas are alkali (sodic) or saline-alkali. Carizzo soils have very pale brown loamy fine sand surface layers up to 6 inches thick. Those surface layers overlie stratified very gravelly coarse sand substrata that extend to a depth of 60 inches or greater. Local areas are gravelly to very gravelly on the surface. The Antho soils have brown or light yellowish-brown sandy loam or gravelly sandy loam surface layers. These surface layers are underlain to a depth of 60 inches or greater by stratified sandy loam, fine sandy loam, or gravelly sandy loam substrata with thin layers of silt loam, loamy sand, or gravelly loamy sand. Carizzo and Antho soils are subject to brief flooding in local areas (*Richmond and Richardson, 1974*).

Geologic Units

Information on the geologic units underlying the Mohave Valley Landfill was generated during drilling of an exploratory well located one-half mile south of the Landfill site in SW1/4 SW1/4 SE1/4 Sec. 21, T19N, R21W. That well was drilled by Mohave County during April 1987 to estimate the depth to ground water in the vicinity of the landfill. A lithologic borehole log of the well prepared by Mohave County personnel is provided as *Exhibit 3*; a schematic cross section showing the geologic units beneath the Landfill site is shown in *Exhibit 4*. According to the lithologic log, alluvium extends from the ground surface to a depth of 262 feet (i.e., ground surface elevation at the well is 1,070 feet above MSL) at the site. Clasts derived from both volcanic and granitic source rocks were present within the alluvium, and fragment sizes were largest between 0 and 75 feet below ground surface. Bedrock was encountered at a depth of 262 feet below ground surface (*Exhibit 3*) and displayed a relatively consistent composition from 262 feet to the bottom of the exploratory borehole (i.e., 400 feet below ground surface). Bedrock lithologies were reported to include an altered, greenish-white, fine-grained rock type interpreted to represent a latite or granite, and a purplish-brown rock type interpreted to represent a latite or dike material. Ground water reportedly was not encountered during drilling of the exploratory well.

Lithologic data also are available for a well that was drilled and installed about 5 miles east of the facility at NW1/4 NE1/4 NE1/4 Sec. 26, T19N, R22W. Rock types encountered

during drilling of that well were reported by Metzger and Loeltz (1973). The well borehole penetrated alluvium of the Colorado River and its tributaries from 0 to 211 feet below ground surface (i.e., ground surface elevation at the well is 610 feet above MSL), and strata of the Pliocene Bouse Formation from 211 feet to the bottom of the borehole at 228 feet below ground surface.

Ground Water Occurrences and Flow Patterns

Water-level data for well sites within three miles of the Mohave Valley Landfill are plotted in *Exhibit 5*. The data shown include all sites for which water-level information are recorded in the ADWR Operations Division well registry. For purposes of discussion, the well sites have been arbitrarily subdivided with respect to distance from the mountain front into proximal, medial and distal sites, as indicated on *Exhibit 5*. In general, available lithologic logs indicate that the proximal wells were drilled through a surficial (i.e., less than 50 feet thick) veneer of alluvium into bedrock, while the distal wells were drilled into a thick sequence of sediments and did not encounter bedrock. The only lithologic log available from a medial well site is from the exploratory well (*Exhibit 3*) installed at Mohave Valley Landfill which encountered bedrock at a depth of 262 feet below ground surface.

The geometry of the aquifer cannot be reliably estimated from the information presented in *Exhibit 5* because that data set includes water-level measurements made during an approximate 10-year time span. As such, the data are complicated by long-term water level fluctuations. To gain more meaningful depictions of the potentiometric surface in the vicinity of the Mohave Valley Landfill, two additional maps were generated, each displaying data collected during one particular calendar year. A map displaying data collected during 1982 is shown in *Exhibit 6*, and a map of 1991 data is shown in *Exhibit 7*. Calendar years 1982 and 1991 were selected because measurements collected during those years were well represented within the registry data.

Based on interpretations of the maps shown in *Exhibits 6 and 7*, it is evident that west-southwest directed ground-water flow (i.e., gradient up to 25 feet per mile) was present in the area encompassing the Mohave Valley Landfill during 1982 and 1991. This suggests that, in addition to the south-flowing ground water supplied by infiltration along the Colorado River (*Metzger and Loeltz, 1973*), a significant component of westerly flow away from the Black Mountains and toward the Colorado River may have been recharging the local aquifer. However, it is not possible to determine the magnitude of this recharge contribution, or whether the westerly ground-water flow was intermittent or constant. Also, it appears, from the data presented in *Exhibit 6*, that ground water was present within 1.5 miles of the Mohave Valley Landfill (beneath the Kunkel well site) during 1982. Both of the above observations contrast with the conceptual hydrologic model developed for the Mohave Valley Landfill by the Arizona Department of Environmental Quality (ADEQ) (1988). That model, which is shown in *Exhibit 8*, assumed that infiltration along the Colorado River was the only source of recharge to the local aquifer. Consequently, ADEQ's model predicted an absence of ground water at medial well sites (i.e., Mohave Valley Landfill well) and a regionally flat ground-water gradient. Although this scenario may be representative of dry periods, mountain-front recharge during wetter years may exert greater hydraulic influence than suggested by ADEQ's model.

Although available data suggest that ground water may be present (perhaps intermittently) in the vicinity of the Mohave Valley Landfill, it is still uncertain whether or not ground water is present immediately beneath the exploratory well and the Landfill site. Because the exploratory well was drilled 120 feet deeper than the alluvium-bedrock interface and was reportedly "*dry*" during tests conducted on April 21, 1987 and May 3, 1993, it is possible that ground water beneath the site is contained within localized zones of fractured bedrock. As mentioned previously, such ground-water occurrences have been documented at a few localities elsewhere within Mohave Valley (*Metzger and Loeltz, 1973*). Another possibility is that bedrock beneath the Landfill site serves as an impervious boundary, and no ground water is present beneath the exploratory well and nearby Landfill despite its occurrence at the Kunkel well site (*Exhibit 6*). A reasonable model that would explain these relationships is based on the premise that the exploratory well and Mohave Valley Landfill are situated above a structurally elevated block of bedrock. According to this scenario, ground water flows through alluvium surrounding the bedrock high, and consequently appears only in wells peripheral to the block, such as the Kunkel well. Although lithologic data that could be used to directly determine whether the well produced from alluvium were not reported for the Kunkel well, its recorded well yield (8 gallons per minute) is five times the value reported for the bedrock-producing well described by Metzger and Loeltz (1973).

Ground Water Quality

Water quality analyses have been performed annually since 1988 at four wells located several miles downgradient from the Mohave Valley Landfill (*Exhibit 1*). The monitored sites include a well registered to W. Donahue (Sec. 14, T19N, R22W), R. Harrison (Sec. 23, T19N, R22W), B. Maples (Sec. 26, T19N, R22W), and J. Bloor (Sec. 25, T19N, R22W). Ground-water samples collected from those wells were analyzed for inorganic compounds, volatile and semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, acrolein and acrylonitrile, dioxin, and radionuclides. Results of those analyses indicated that volatile and semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, acrolein and acrylonitrile, and dioxin have not been detected at concentrations exceeding laboratory reporting limits in samples collected from the subject monitor wells. Additionally, with the exception of fluoride and selenium, inorganic compounds and radionuclides have consistently been detected at concentrations below the maximum contaminant levels (MCLs) established by the U. S. Environmental Protection Agency (EPA). However, concentrations of total fluoride were reported between 4.0 and 4.3 milligrams per liter (mg/L) in samples collected from the Bloor well during 1988, 1989, 1991 and 1992, and concentrations of selenium were reported to be 0.012 and 0.035 mg/L in samples collected from the Bloor well during 1988 and 1991. The MCLs established by EPA for fluoride and selenium are 4.0 mg/L and 0.01 mg/L, respectively.

Local Surface Water Features

The Mohave Valley Landfill is traversed by two ephemeral washes that flow west-southwest during periods of heavy rainfall. Those washes drain the western flank of the Black Mountains and discharge directly into the Colorado River. According to a map prepared by the Federal Emergency Management Agency (*Exhibit 9*), the

projected 100-year flood boundaries for those washes do not extend beyond their existing channels, and the Landfill site is subject to minimal associated flood hazard.

As stated previously, the Mohave Valley Landfill lies approximately 6.5 miles east of the Colorado River. BASIN & RANGE contacted the U.S. Bureau of Reclamation (USBR) to learn whether or not the River might have a potential impact on the Landfill. Mr. Mike Baker (USBR), who reported that he has extensive knowledge of all investigations to date concerning flood conditions in western Arizona, stated that the Mohave Valley Landfill is outside all zones of designated flood hazard associated with the Colorado River.

REFERENCES

Arizona Department of Environmental Quality, 1988. *Interoffice Memorandum from Michael Leach to Miguel Santiago concerning the Mohave Valley Landfill*, March 15.

Dickinson, W.R., 1989. *Tectonic Setting of Arizona through Geologic Time*, in Jenny, J.P., and Reynolds, S.J (eds.), *Geologic Evolution of Arizona*, Arizona Geological Society Digest 17.

Federal Emergency Management Agency, 1988. *Flood Zone Map*, Community Parcel Number 0400-582435D, September.

Metzger, D.G., and Loeltz, O.J., 1973. *Geohydrology of the Needles Area, Arizona, California, and Nevada*, U.S. Geological Survey Professional Paper 486-J.

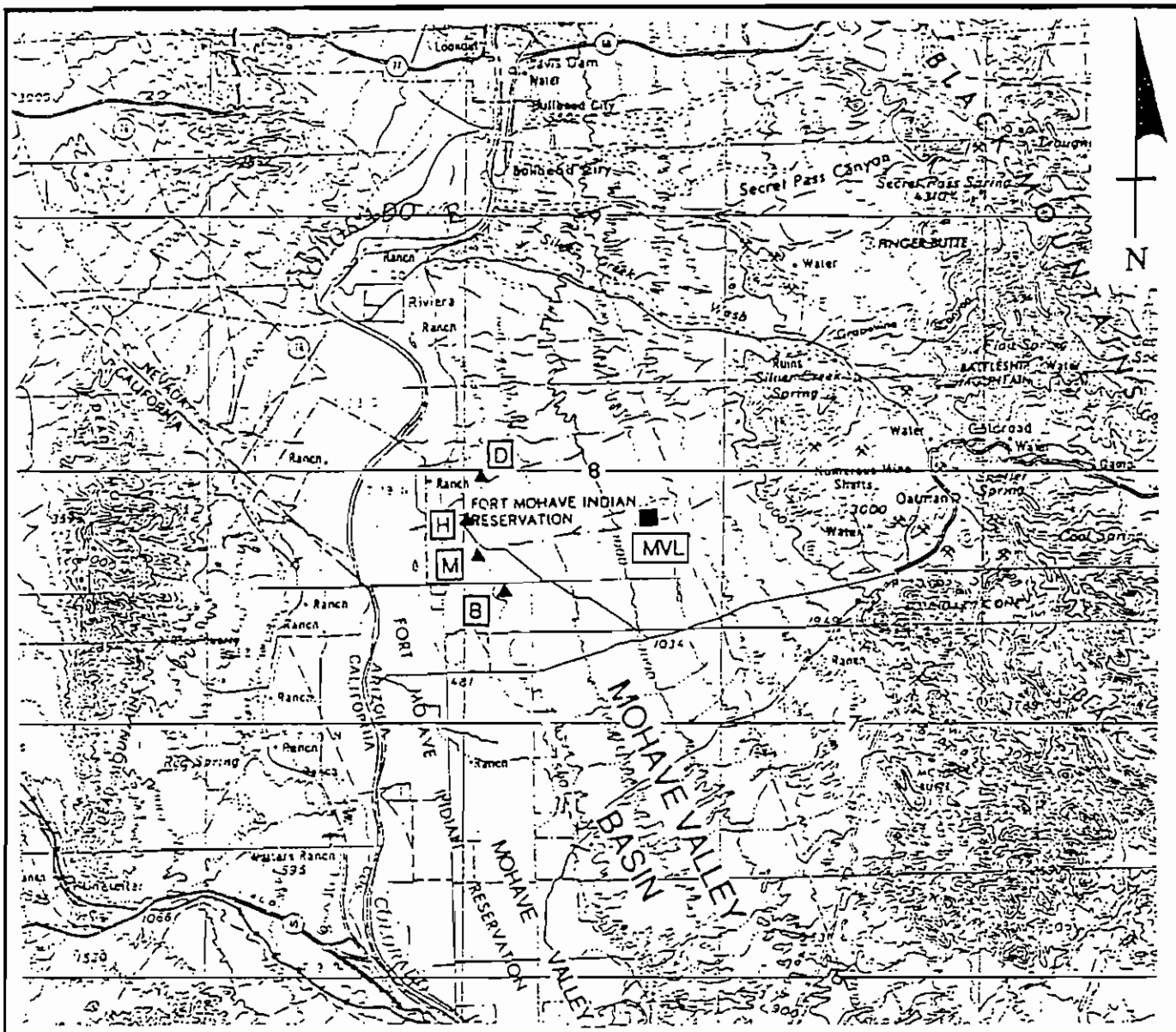
Mohave County, 1987. *Interoffice Memorandum from Michael P. Hendrix, P.E. to Harol J. Garryo, P.E. concerning Determination of Depth to Water at the El Rodeo Road Landfill Site*, May 13.

Reynolds, S.J., 1988. *Geologic Map of Arizona*, Arizona Geological Survey Map 26.

Richmond, D.L., and Richardson, M.L., 1974. *General Soil Map and Interpretations, Mohave County, Arizona*, U.S. Department of Agriculture Soil Survey Map.

U.S. Geological Survey, 1954. *1:250,000 Scale Topographic Map, Kingman, Arizona, Nevada, and California*, revised 1969.

U.S. Geological Survey, 1956. *1:250,000 Scale Topographic Map, Needles, California and Arizona*, revised 1969.



Source: U.S. Geological Survey, 1954 and 1956.

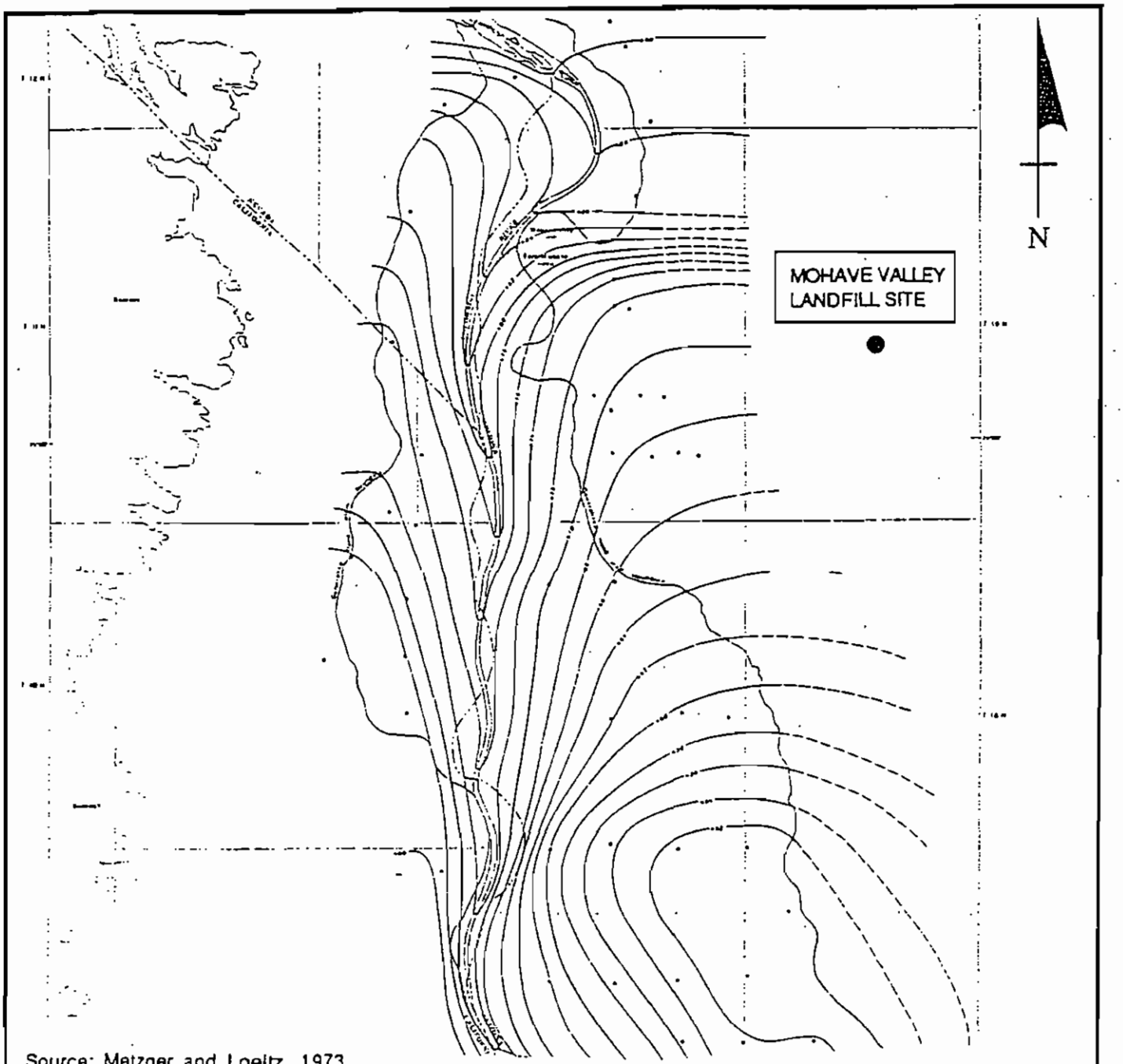
EXPLANATION

- D ▲ Well registered to W. Donahue
- H ▲ Well registered to R. Harrison
- M ▲ Well registered to B. Maples
- B ▲ Well registered to J. Bloor
- MVL ■ Location of Mohave Valley Landfill site

0 2 4

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	GENERAL LOCATION MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 1
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



Source: Metzger and Loeltz, 1973.

EXPLANATION

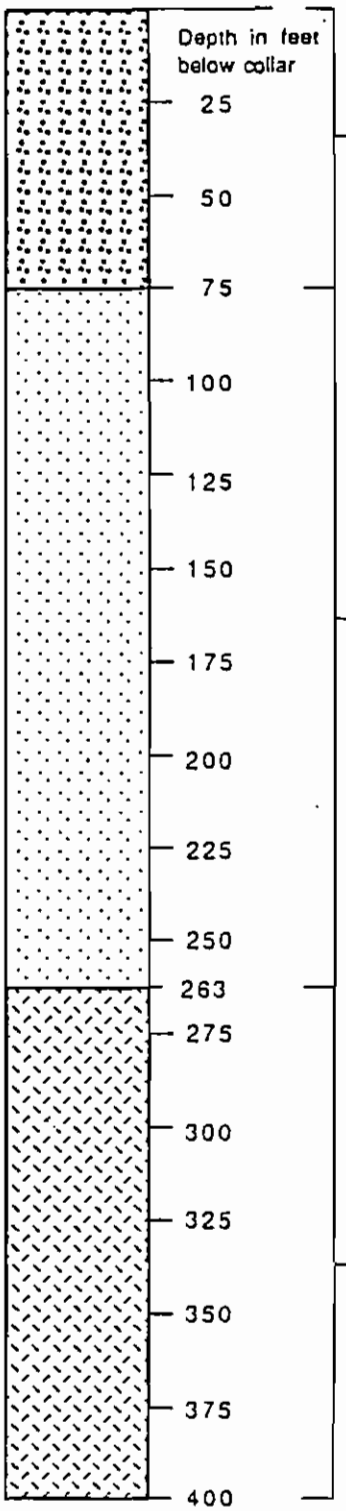
Well used for control for water-level contours. Water levels collected from 1962 to 1969.

Water level contour, shows altitude of water level surface; dashed where approximately located. Contour interval, in feet, is variable. Datum is mean sea level.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	REGIONAL WATER LEVEL CONTOUR MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 2
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



COLLAR

Alluvium, large fragments - mixture of several rock types including volcanic and granitic rocks

Alluvium - smaller fragments of both volcanic and granitic rocks. Large rock fragments indicate sample contamination from 0 to 75 depth interval.

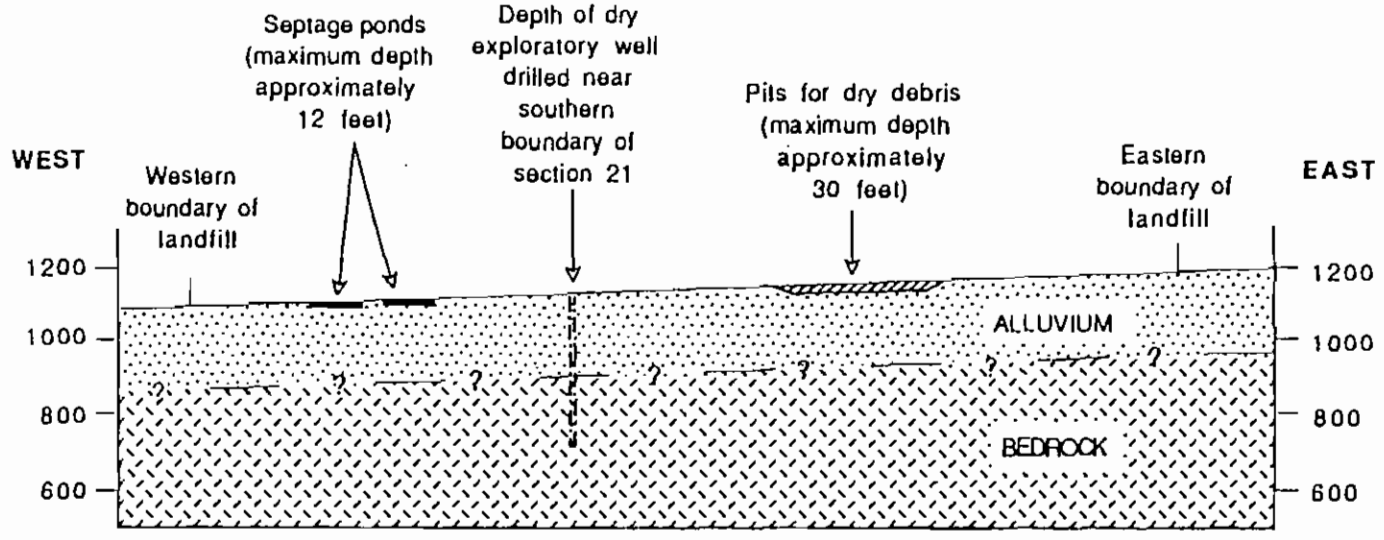
Alluvium/bedrock contact

Rock chips consist of two distinct rock types, 60%-80% greenish-white, altered fine-grained unit which appears to be either an altered latite or a fine-grained granitic unit. The second rock type is a purplish-brown latite, possibly occurring as a dike.

Bottom of hole

Source: Modified after Mohave County, 1987.

CLIENT: MOHAVE COUNTY PUBLIC WORKS	LITHOLOGIC LOG OF EXPLORATORY WELL MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 3
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993

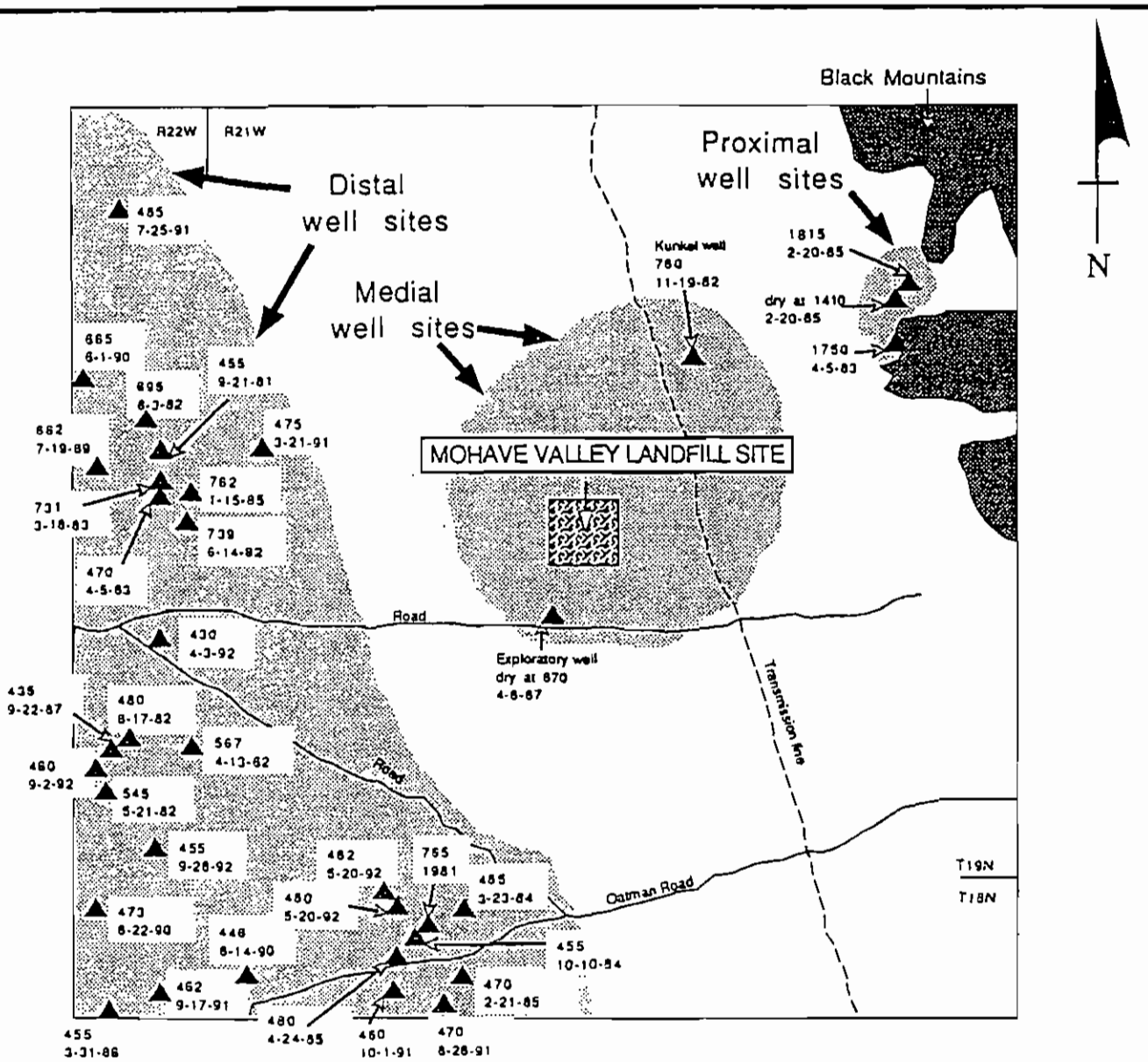


Note: Line of section oriented approximately east-west across the northern portion of landfill site. Elevations are shown in feet above mean sea level.

0 250 500

APPROXIMATE SCALE IN FEET

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	SCHEMATIC CROSS SECTION MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 4
JUNE 24, 1993	FILE NO.: 93-309			



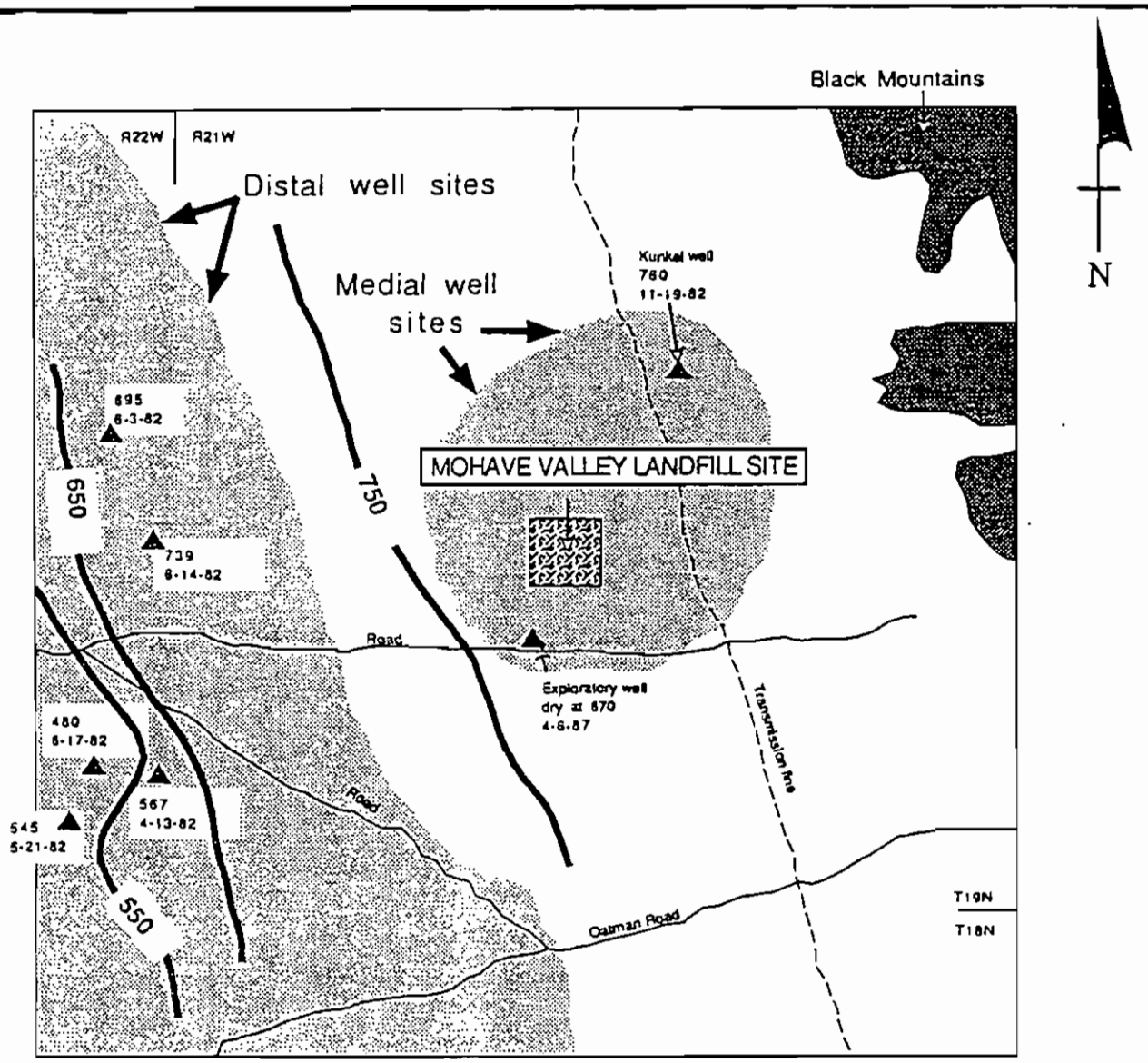
EXPLANATION

▲ 455 3-31-86 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	WELL LOCATION MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 5
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



EXPLANATION

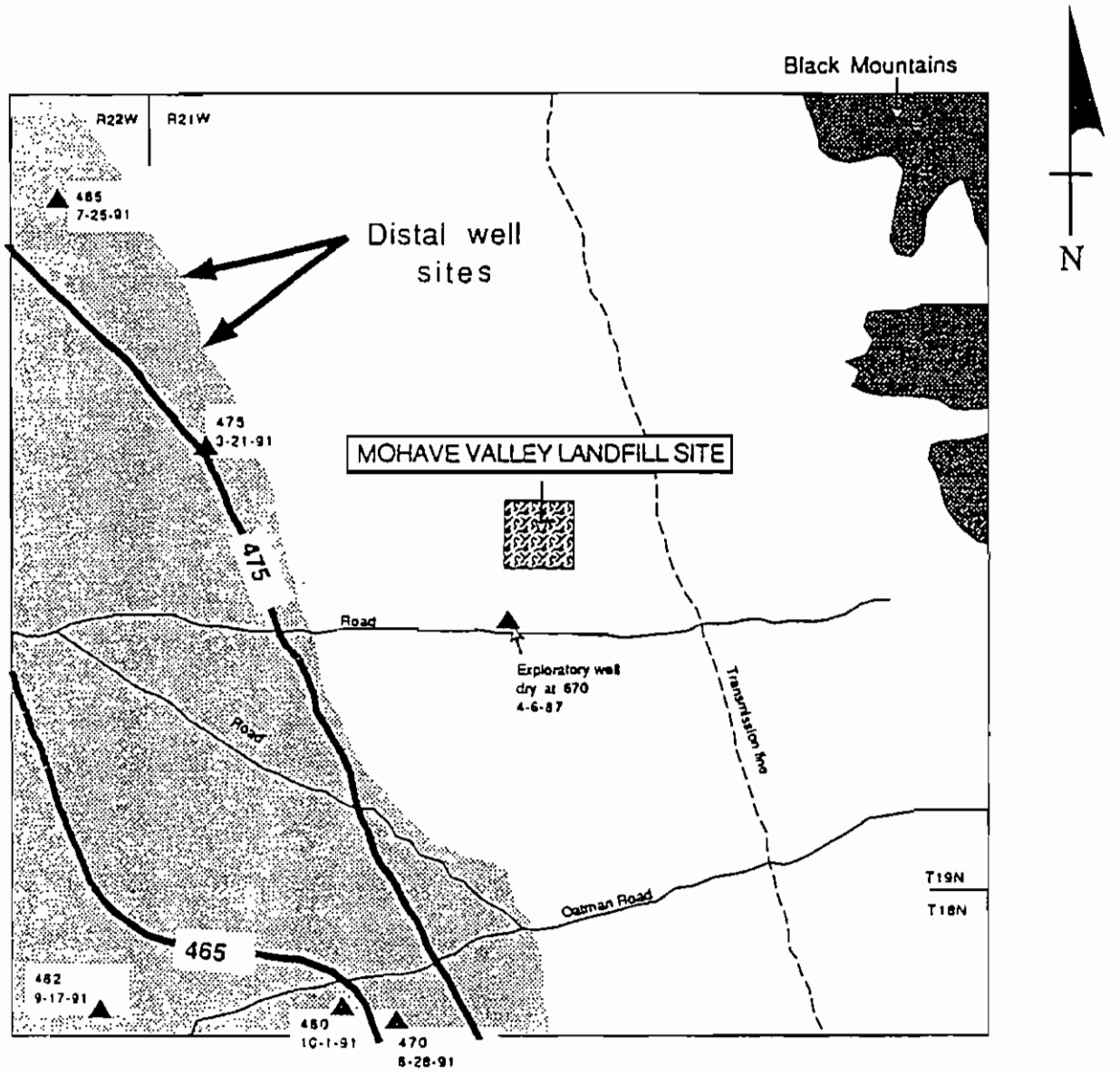
▲ 545 5-21-82 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

550 — Water level elevation contour in feet above mean sea level. Contour interval is 100 ft.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	CONTOUR MAP OF 1982 WATER LEVELS MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 6
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



EXPLANATION

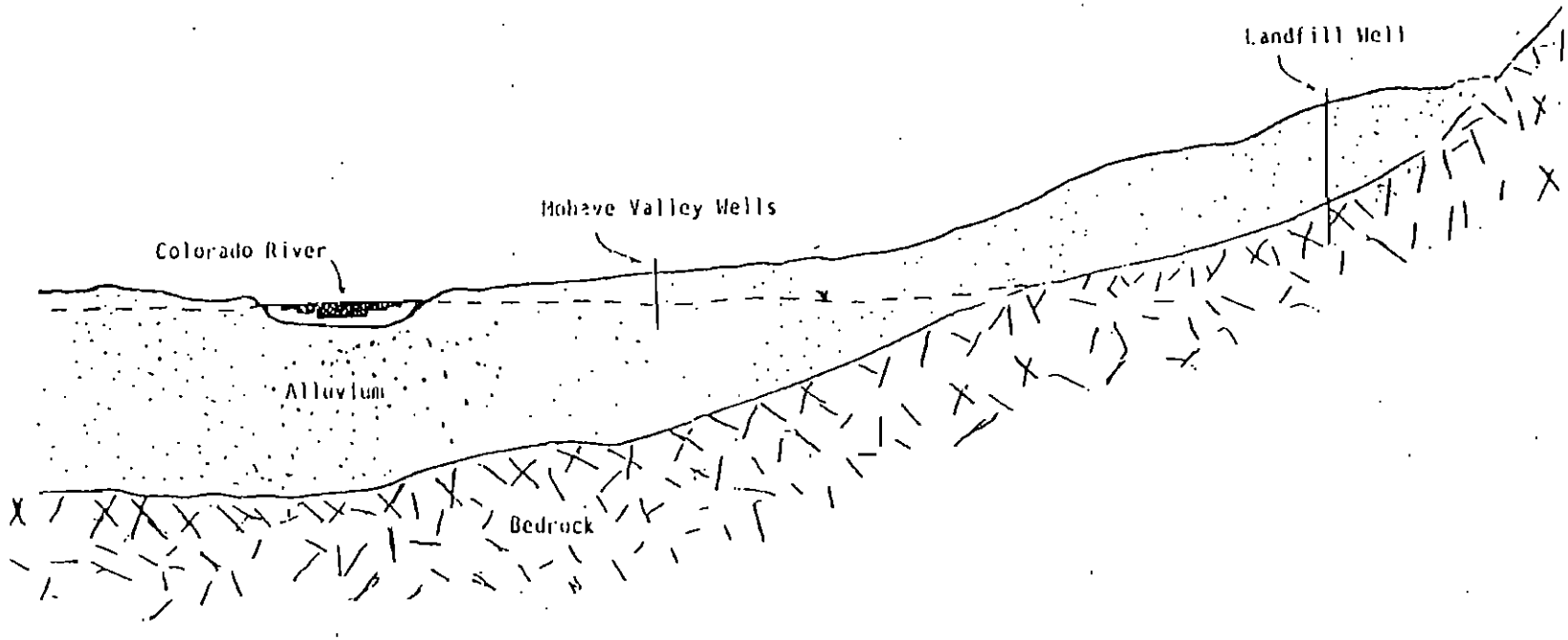
▲ 462 9-17-91 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

465 — Water elevation contour in feet above mean sea level. Contour interval is 10 ft.

0 1 2

APPROXIMATE SCALE IN MILES

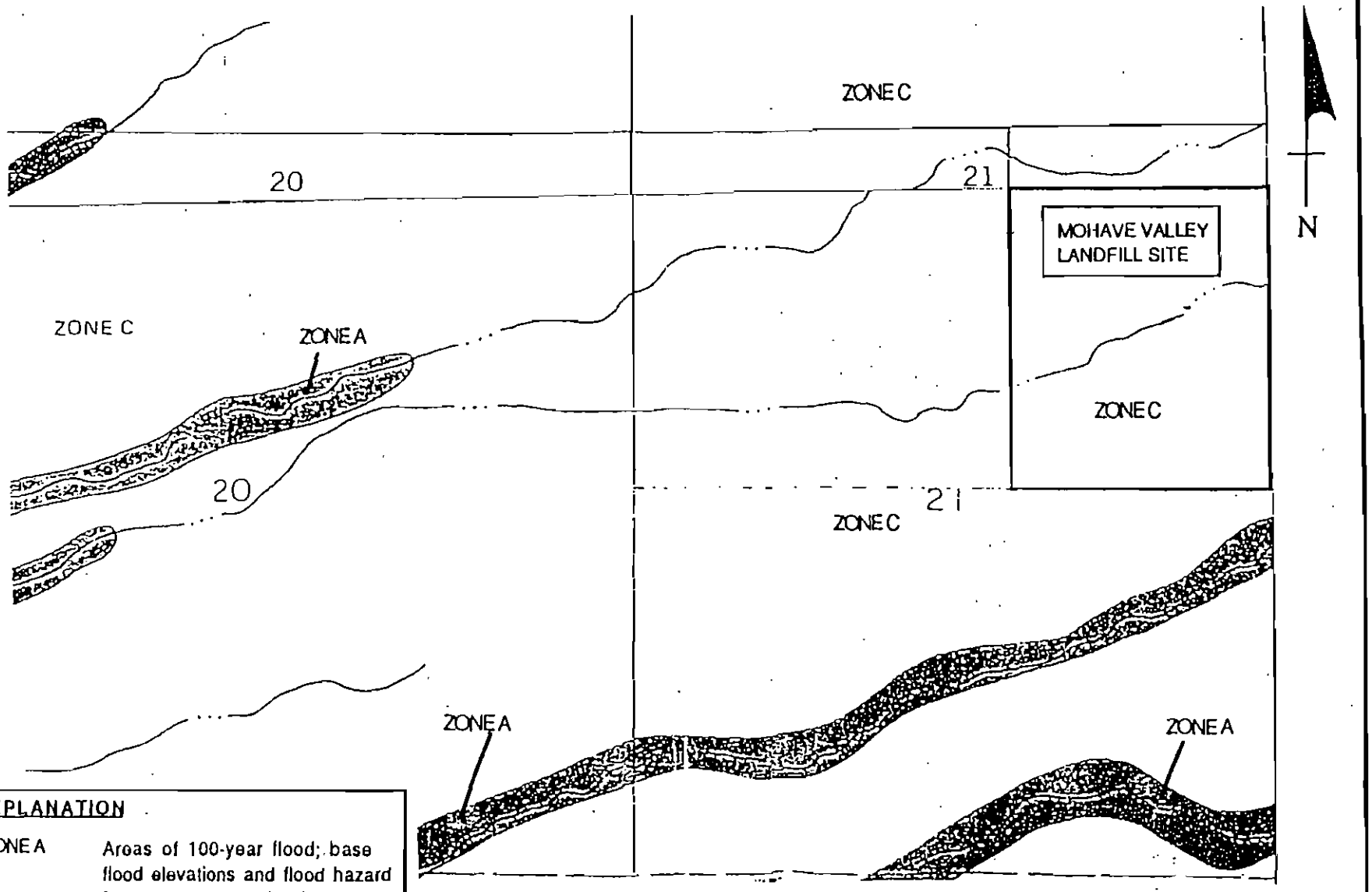
CLIENT: MOHAVE COUNTY PUBLIC WORKS	CONTOUR MAP OF 1991 WATER LEVELS MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 7
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



Source: Arizona Department of Environmental Quality, 1988.

NO SCALE

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY'S CONCEPTUAL HYDROLOGIC MODEL MOHAVE VALLEY LANDFILL	EXHIBIT 8
JUNE 24, 1993	FILE NO.: 93-309			



EXPLANATION

ZONE A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
ZONE C	Areas of minimal flooding. (No shading)

Source: Modified after Federal Emergency Management Agency, 1988.

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	FLOOD ZONE MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 9
JUNE 24, 1993	FILE NO.: 93-309			

ATTACHMENT F

ADEQ Form 404-003

APPLICANT'S RESPONSE TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY POLICY FOR PROTECTING WATER QUALITY DURING FACILITY CONSTRUCTION

Prepared by: J. P. Mieding Date: July 11, 1997

U. S. Army Corps of Engineers Public Notice Number TBD

For each policy, please describe the procedures, practices and/or facilities that will (a) minimize potential pollution of surface waters and (b) demonstrate compliance with State water quality standards (A.A.C. Title 18, Chapter 11, Articles 1, 2 and 3). Please note that the waters of the State include all watercourses, and perennial or intermittent streams (A.R.S. §49-201.31).

POLICY (1) Provision for temporary pollution control measures such as: dikes, basins, ditches, diversions, silt fences and the application of straw and seed, to be functional prior to land disturbing activities.

Network of V-shaped drainage ditches feeding 100' x 120' x 8' deep retention basin. Ditch design per Vector Engineering drawing 9, detail E except no rip-rap on temporary ditches.

POLICY (2) Erosion control measures including minimizing clearing and grubbing and limiting exposure of erodible surface to 750,000 square feet for each construction phase or location.

Maximum slopes not to exceed 3:1 except pit walls designed to 1.5:1 as per Vector drawings.

POLICY (5) Erection of barriers, covers, shields and other protective devices as necessary to prevent any construction materials, equipment or contaminants/pollutants from falling or being thrown into a watercourse.

16 ft high litter fence in place as shown on Vector drawing 3.

POLICY (MONITORING) The person responsible for the activity should monitor for turbidity every day in which there is a disturbance of the bed of the waterway. Monitoring should be performed not greater than 300 feet downstream from the construction or related operations and 100 feet upstream, and may be required at different frequencies and for other parameters to demonstrate compliance with water quality standards. Reports of turbidity levels should be reported to the Arizona Department of Environmental Quality, Surface Water Quality Section.

Retention basin designed and built to retain stormwater that contacts active, and inactive landfill areas, as well as facilities under construction. Water sill be allowed to evaporate - not leave site.

ADDITIONAL INFORMATION

Appendix C-13

Army Corps of Engineers 404 Permit Documentation

VECTOR
ENGINEERING, INC.

November 1, 1996
Project 965014.02 (9)

John P. Mieding, P.E.
Mesa Disposal, Inc.
967 Hancock Road, Suite 141
Bullhead City, Arizona 86442

Re: U.S. Army Corps Response, Section 404 Jurisdiction

Dear John,

Enclosed please find a copy of the October 24, 1996 response letter from the U.S. Army Corps of Engineers (Corps) regarding delineation of Section 404 jurisdictional limits at the Mohave Valley Landfill. The letter was prepared and forwarded to our office by Corps staff in response to Vector's September 11, 1996 request for identification of limits of waters of the United States at the site and inquiry into requirements for Section 404 permitting.

I have enclosed a copy of the aerial photograph upon which staff from the Corps identified high water marks and waters of the U.S. Due to the poor quality of the copy, I highlighted the three washes that were identified by the Corps as being under their jurisdiction; these will require Section 404 permit approval prior to filling or dredging. As you can see, the identified washes include the improved wash at the northwest corner of the site, the main wash that traverses the site adjacent to the waste tire stockpile, and the western half of the wash adjacent to the materials salvaging area. The wash at the northwest corner of the site will not be impacted by the design for future operations, but the other two washes will ultimately be impacted and will have to be addressed by a Section 404 permit.

I spoke with Marjorie Blaine regarding this issue, and she indicated that a diversion channel along the eastern property boundary would be acceptable if we demonstrate that the diverted flows will ultimately reach the original downstream destination. In general, that means that we must have concurrence from the regional floodplain manager (i.e., Mike Hendrix) that downstream flows will not be impacted.

Vector will continue to pursue a site design with a diversion channel at the eastern property boundary, unless directed otherwise by you or Mike Hendrix. An analysis of the expected off-site flows will be conducted so that the diversion channel can be appropriately sized. Subtitle D requirements specify that drainage facility design be based on the 24-hour, 25-year storm event. Unless Corps staff specify otherwise, Vector will

prepare a diversion channel design based on the 24-hour, 100-year storm event to better ensure that the channel is appropriately sized and that off-site flows will not affect landfill operations.

If you have any questions or concerns regarding this issue, please contact me at your convenience. I will continue to keep you up-to-date on progress made with Section 404 permitting.

Sincerely,

Vector Engineering, Inc.

Evan Nikirk, P.E.
Project Manager

enclosure

n:\965014.02\letters\fwdcorps.doc

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
ARIZONA-NEVAOA AREA OFFICE
3636 NORTH CENTRAL AVENUE, SUITE 760
PHOENIX, ARIZONA 85012-1936

REPLY TO
ATTENTION OF:

RECEIVED
OCT 29 1996

October 24, 1996

Office of the Chief
Regulatory Branch

Vector Engineering, Inc.
ATTN: Mr. Evan Nikirk, P.E.
1601 Fairview Avenue, Suite H
Carson City, Nevada 89701

File Number: 964-0582-MB

Dear Mr. Nikirk:

Reference is made to your letter of September 11, 1996 in which you inquired as to the jurisdictional limits of Section 404 of the Clean Water Act for the unnamed washes at the existing Mohave Valley landfill, north of El Rodeo Road (Section 21, T19N, R21W), Bullhead City, Mohave County, Arizona.

The Section 404 jurisdictional limits are indicated by the ordinary high water mark designated on the enclosed aerial photograph. This jurisdictional determination will remain in effect for five years from the date of this letter unless an unusual flood event occurs. After this five year period or after an unusual flood event alters stream conditions, the Corps of Engineers reserves the authority to retain the original jurisdictional limits or to establish new jurisdictional limits as conditions warrant.

Any discharge of dredged or fill material within the designated jurisdictional area requires a permit from the Corps of Engineers under Section 404 of the Clean Water Act. The Corps of Engineers emphasizes avoidance of the delineated jurisdictional area. Please review this delineation and evaluate your proposed activity to ensure that avoidance of the jurisdictional area is given full consideration in your design. Any work outside the designated jurisdictional area does not require a Section 404 permit.

Please include a copy of this letter with any application to the Corps of Engineers for a Section 404 permit.

The receipt of your letter is appreciated. If you have questions, please contact Marjorie E. Blaine at (520) 670-5021.

Sincerely,

Cindy Lester

Cindy Lester
Chief, Arizona Section
Regulatory Branch

Enclosure(s)

Mesa Disposal Inc.

967 Hancock Rd. Suite 141
Bullhead City, AZ. 86442
(520) 758-0000 Fax (520) 758-2680

August 31, 1998

Mohave County Public Works
3675 Andy Devine Ave Suite C
Kingman, AZ. 86401

Attention : Michael P Hendrix, P.E.
Assistant Director

Subject: U. S. Army Corps of Engineers Section 404 Permit – Mohave Valley Landfill

References : A) U. S. Army Corps of Engineers Section 404 Permit File No. 964-0582-MB

Dear Mr. Hendrix:

The reference A Permit has several stipulations that must be met prior to the start of work. Stipulation C requires that the BLM mitigation be reviewed and approved by the Corps. We understand that the easement lands are included in the larger "Land Swap" negotiation between Mohave County and the BLM.

Please be advised the reference A permit will expire on 13 Dec 1998 unless work commences prior to this date. We will need to request an extension to the permit if we go beyond this date. Please advise status of these negotiations, and whether we should begin processing the extension paperwork.

Sincerely,

John P. Mieding, P.E.
General Manager

cc: chrono file
Permit file

DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
ARIZONA-NEVADA AREA OFFICE
3636 NORTH CENTRAL AVENUE, SUITE 760
PHOENIX, ARIZONA 85012-1936

REPLY TO
ATTENTION OF:

January 14, 1998

Office of the Chief
Regulatory Branch

Mohave County Public Works Department
ATTN: Mr. Michael P. Hendrix, PE
Assistant Director
3675 E. Andy Devine Avenue, Suite C
Kingman, Arizona 86401

File Number: 964-0582-MB

Dear Mr. Hendrix:

This is in reply to your November 21, 1997 letter concerning your proposal to expand an existing landfill involving the discharge of fill material in the unnamed washes at Mohave County Landfill, El Rodeo Road (Section 21, T19N, R21W), Bullhead City, Mohave County, Arizona.

The Corps of Engineers has determined, under Section 404 of the Clean Water Act (33 U.S.C. 1344), that your proposed activity complies with the terms of Nationwide Permit No. 26, "Headwaters and Isolated Waters Discharges." You must comply with all terms and applicable conditions (regional, general, 404 only, and 401 conditions) described in Enclosure 1 and complete the compliance statement (Enclosure 2).

Furthermore, you must comply with the following **Special Condition(s)**:

a. Should cultural resources or archeological remains be encountered during construction/excavation, work shall immediately cease in the area of discovery. The permittee shall promptly notify the State Historic Preservation Office at (602)542-7137 and the Corps at (520)670-5021.

b. The permittee may not begin work authorized under this permit until responses have been received from Colorado River Indian Tribes, the Chemehuevi Tribe, and the Fort Mojave Indian Tribe regarding traditional cultural properties (TCPs) and the Corps has reviewed these responses and taken the appropriate action necessary if any TCPs are documented.

c. The permittee may not begin work until the mitigation has been finalized with the Bureau of Land Management and the Corps has agreed upon the mitigation. The permittee shall submit to the Corps written documentation detailing the mitigation and the acreage of waters of the U. S. to be included and conserved on the acquired lands.

d. The permittee shall construct the channel diversions so downstream washes are not truncated and maintain their current physical characteristics and hydrology.

e. The permittee shall remove all excess fill and/or construction debris/equipment from the site immediately upon completion of construction.

f. Prior to onset of construction/excavation, the permittee shall provide the contractor(s) with a copy of this permit. The contractor shall read and agree to comply with all conditions herein.

This letter of verification is valid until **Nationwide Permit No. 26 expires on December 13, 1998**. Furthermore, if you commence or are under contract to commence an activity authorized by Nationwide Permit No. 26 before it expires, you will have until December 13, 1999 to complete the activity under the present terms and conditions of Nationwide Permit No. 26.

A nationwide permit does not grant any property rights or exclusive privileges. Also, it does not authorize any injury to the property or rights of others or authorize interference with any existing or proposed Federal project. Furthermore, it does not obviate the need to obtain other Federal, state, or local authorizations required by law.

Thank you for participating in our regulatory program. If you have questions, please contact Marjorie E. Blaine at (520) 670-5021.

Sincerely,

Cindy Lester

Cindy Lester
Chief, Arizona Section
Regulatory Branch

Enclosures

Appendix C-14

NPDES Notice of Intent

MOHAVE COUNTY PUBLIC WORKS

3675 E. Andy Devine Avenue, Suite C
P.O. Box 7000 KINGMAN, ARIZONA 86402-7000
TELEPHONE (520) 757-0910 FAX (520) 757-0912 TDD 753-0726

Richard A. Skalicky, P.E. Director/County Engineer
M. P. Hendrix, P.E. Asst. Director
Asst. Co. Engineer B. M. Elters, P.E.
Flood Control K. Budhecha, P.E.
County Surveyor D. W. Walker, R.L.S.
Improvement Districts Z. Wright

June 3, 1996

Arizona Department of Water Quality
3033 North Central Ave., Room ERP
Phoenix, Arizona 85012
ATTN: Robert Wilson

COPY

RE: NPDES NOI for Cerbat Landfill
T23N, R18W, Sec. 35 SW 1/4, Mohave County

Dear Mr. Wilson:

As per our conversation of 5-30-96, and after review of the documentation furnished by your office, please find the attached completed NOI forms for both the Cerbat and Mohave Valley Landfills.

On behalf of Mohave County, I ask that you please accept these Multi Sector NOI applications as our intent to be authorized by NPDES permits issued for storm water discharge associated with landfilling activities in the State of Arizona.

Sincerely,

Michael P. Hendrix, P.E.
Assistant Public Works Director

cc: Richard A. Skalicky, P.E., Director
File

THIS FORM REPLACES PREVIOUS FORM 3510-6 (8-92)
See Reverse for Instructions

Form Approved OMB No 2040-0086
Approval Expires: 8-31-98

NPDES FORM

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under a NPDES General Permit

Submission of this Notice of Intent constitutes notice that the party identified in Section II of this form intends to be authorized by a NPDES permit issued for storm water discharges associated with industrial activity in the State identified in Section III of this form. Becoming a permittee obligates such discharger to comply such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Permit Selection: You must indicate the NPDES Storm Water general permit under which you are applying for coverage. Check one of these.

Baseline Industrial [ ] Baseline Construction [ ] Multi-Sector (Group Permit) [X]

II. Facility Operator Information

Name: COUNTY OF MOHAVE, ARIZONA Phone: 520 757 0910

Address: 3675 E. ANDY DEVINE AVE. P.O. BOX 7000 Status of Owner/Operator: M

City: KINGMAN State: AZ ZIP Code: 86402-7000

III. Facility Site Location

Name: MOHAVE VALLEY LANDFILL Is the facility located on Indian Land? (Y or N): N

Address: EL RODEO ROAD

City: State: AZ ZIP Code: 86441

Latitude: 35 01 19 Longitude: 114 30 47 Quarter: NE Section: 21 Township: 19 N Range: 21 W

IV. Site Activity Information

MS4 Operator Name:

Receiving Water Body: DRY WASHES

If you are filing as a co-permittee, enter storm water general permit number:

SIC or Designated Activity Code: LF 2nd:

Is the facility required to submit monitoring data? (1, 2, 3, or 4): 2

If You Have Another Existing NPDES Permit, Enter Permit Number:

Multi-Sector Permit Application Only:

Based on the instructions provided in Addendum H of the Multi-Sector permit, are species identified in Addendum H in proximity to the storm water discharges to be covered under this permit, or the areas of BMP construction to control those storm water discharges? (Y or N): N

Will construction (land disturbing activities) be conducted for storm water controls? (Y or N): Y

Is applicant subject to and in compliance with a written historic preservation agreement? (Y or N): Y

V. Additional Information Required for Construction Activities Only

Project Start Date: Completion Date: 40

Estimated Area to be Disturbed (in Acres):

Is the Storm Water Pollution Prevention Plan in compliance with State and/or Local sediment and erosion plans? (Y or N): Y

VI. Certification: The certification statement in Box 1 applies to all applicants. The certification statement in Box 2 applies only to facilities applying for the Multi-Sector storm water general permit.

BOX 1

ALL APPLICANTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BOX 2

MULTI-SECTOR STORM WATER GENERAL PERMIT APPLICANTS ONLY:

I certify under penalty of law that I have read and understand the Part 1.8. eligibility requirements for coverage under the Multi-Sector storm water general permit, including those requirements relating to the protection of species identified in Addendum H.

To the best of my knowledge, the discharges covered under this permit, and construction of BMP's to control storm water runoff, are not likely to and will not likely adversely affect any species identified in Addendum H of the Multi-Sector storm water general permit or are otherwise eligible for coverage due to previous authorization under the Endangered Species Act.

To the best of my knowledge, I further certify that such discharges, and construction of BMP's to control storm water runoff, do not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage due to a previous agreement under the National Historic Preservation Act.

I understand that continued coverage under the Multi-Sector general permit is contingent upon maintaining eligibility as provided for in Part 1.8.

Print Name: RICHARD A. SKALICKY, PE Date: 06/06/96

Signature: Richard A. Skalicky

EPA Form 3510-6 (8-96)

DRY WELLS: INJECTION WELL REGISTRATION NUMBER(S):

Appendix C-15

Air Quality Permit Documentation

TECHNICAL REVIEW AND EVALUATION OF APPLICATION FOR AIR QUALITY PERMIT No. 92159

I. INTRODUCTION

This Class I Renewal permit is for the continued operation of Mohave County Development Services' Mohave Valley Landfill. Permit No. 92159 renews and supersedes Permit No. 65028.

A. Company Information

Facility Name: Mohave Valley Landfill

Mailing Address: 967 Hancock Road, Suite 141

Bullhead City, AZ 86442

Facility Location: 3999 El Rodeo Road

Fort Mohave, AZ 86426

B. Attainment Classification

The Mohave Valley Landfill is located in Mohave County, which is designated attainment/unclassified for all criteria pollutants.

II. PROCESS DESCRIPTION

A. Process Equipment

The primary activities at the Mohave Valley Landfill are the transportation and disposal of refuse and the excavation and stockpiling of cover material. Excavated soil from cell construction is used for daily, intermediate, and final cover. The landfill accepts the following waste materials:

1. Municipal refuse, pesticide containers, and other wastes from households or commercial facilities
2. White goods
3. Construction debris
4. Demolition material
5. Dead animals
6. Shredder fluff/residue
7. Incinerator ash

8. Non-infectious medical wastes

9. Water and wastewater treatment sludges which pass the paint filter test

10. Industrial Waste

The Mohave Valley Landfill's design capacity is estimates to be 14,950,1000 cubic yards excluding final cover, or 7.5 million tons assuming a compaction ratio of 900 to 1,300 pounds per cubic yard. The Mohave Valley Landfill had approximately 1,605,581 tons of waste in place as of the end of 2020. The Landfill is projected to reach capacity in 2065.

B. Control Devices

The Mohave Valley Landfill was required to install and operate a landfill gas collection and control system after uncontrolled emissions exceeded 50 megagrams per year of nonmethane organic compounds (NMOC) in 2017. The gas collection and control system was operational on July 31, 2020.

The landfill gas collection and control system is composed of an active collection system that diverts landfill gas from extraction wells and collection trenches installed throughout the landfill to an unenclosed candlestick flare to control emissions of NMOCs.

III. LEARNING SITE EVALUATION

In accordance with ADEQ's Environmental Permits and Approvals near Learning Sites Policy, the Department is required to conduct an evaluation to determine if any nearby learning sites would be adversely impacted by the facility. Learning sites consist of all existing public schools, charter schools and private schools the K-12 level, and all planned sites for schools approved by the Arizona School Facilities Board. The learning sites policy was established to ensure that the protection of children at learning sites is considered before a permit approval is issued by ADEQ.

This renewal will not result in any increase in emissions as there are no changes to any equipment. Hence the facility is exempt from the learning sites evaluations.

IV. COMPLIANCE HISTORY

A. Case Number 186954

A Notice of Violation was issued to the Mohave Valley – Development Services Department on November 25, 2019 based on an inspection conducted November 21, 2019. The Mohave Landfill was required to install, maintain, and operate a gas collection and control system within 30 months of reporting a nonmethane organic compound emission rate in exceedance of 50 megagrams per year, and failed to do so prior to the deadline of November 15, 2019.

The Mohave Valley Landfill was required to finalize a consent order to document a compliance schedule within 30 days of receipt of the Notice of Violation. The Mohave Valley Landfill was also required to submit an implementation plan of corrective actions that will take place until the completion of the gas collection and control system

requirements, including plans for surface emissions monitoring and perimeter migration probe within 20 days of receipt. The Notice of Violation was closed on March 20, 2020 after it was determined that the facility met the compliance provisions of the Notice of Violation.

B. Compliance Order Docket No. A-01-20

The Mohave Valley Landfill was issued a Compliance Order on January 9, 2020, which requires the Mohave Valley Landfill to submit documentation confirming progress of pre-construction activities for the required gas collection and control system and compliance with the requirements of 40 CFR 60.752(b)(2)(ii) after installation. The Department received the final report documenting compliance on August 3, 2020, and terminated the compliance order on August 31, 2020.

C. Inspections and Compliance Reporting

The Mohave Valley Landfill received two on-site inspection during the permit term and has submitted nine semiannual compliance certifications. The Mohave Valley Landfill submitted the following three permit deviations:

1. A permit deviation was submitted on 11/21/2019 to notify that the gas collection and control system had not been installed within the required 30-month timeline.

2. A permit deviation was submitted on 11/12/2020 to notify the Department of two instances where the gas collection and control system experienced downtime greater than five days due to missing and invalid data resulting from control system malfunctions.

3. A permit deviation was submitted on 10/15/2021 to notify the Department that the September 2021 monthly log of nitrogen or oxygen concentration from the landfill gas was not available.

The Department also reviewed the initial and revised gas collection and control system design plans, and the initial design capacity report as required under New Source Performance Standards (NSPS) Subpart Cf during this permit term.

D. Performance Testing

The Mohave Valley Landfill conducted performance testing on the candlestick flare on December 10, 2021, as required by National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart AAAA and NSPS Subpart XXX for unenclosed flares. The results of the performance test are outlined in Table 1 below:

Table 1: Performance Test Results

Emission Unit	Pollutant	Date of Test	Results	Threshold	Pass/Fail
Flare	Visible Emissions Observation	12/10/2021	0 minutes	5 minutes	Pass
Flare	Exit Velocity	12/10/2021	8.57 feet per second	80.53 feet per second	Pass
Flare	Heating Value	12/10/2021	16.26 Megajoules per standard cubic meter	>7.45 Megajoules per standard cubic meter	Pass
Flare	Heat Sensing Device	12/10/2021	Pass	Not Applicable	Pass

V. EMISSIONS

The Mohave Valley Landfill's landfill gas emissions were evaluated using EPA Landfill Gas Emissions Model (LandGEM) Version 3.03 and AP-42 Chapter 2.4 for Municipal Solid Waste Landfills. LandGEM was used to determine total landfill gas generation using the methane generation rate constant for areas receiving less than 25 inches of rainfall per year, the methane generation potential recommended in AP-42 Chapter 2.4, and the landfill's annual refuse acceptance rate. The Mohave Valley Landfill's NMOC emissions were calculated based on the 2016 Tier 2 NMOC sampling concentration and total landfill gas generation rate. Volatile organic compound (VOC) emissions were calculated using the recommended value for VOC concentration from AP-42 Chapter 2.4. The facility's gas collection and control system is assumed to collect 75% of landfill gases generated, as recommended by AP-42 Chapter 2.4, with a control efficiency of 98%.

Emissions from internal combustion engines were evaluated using emission factors from AP-42 Chapter 3.3 for Gasoline and Diesel Industrial Engines. Fugitive emissions of particulate matter from cover operations, unpaved roadways, and covered storage piles were evaluated using emission factors from AP-42 Chapter 13.2, AP-42 Chapter 13.3, and EPA WebFIRE, respectively. Fugitive emissions of VOCs from the diesel storage tanks were evaluated used emission factors from EPA WebFIRE.

The facility has a potential-to-emit (PTE) less than the major source thresholds for all regulated pollutants. The facility's PTE is provided in Table 2 below:

Table 2: Potential to Emit (tpy)

Pollutant	PTE Emissions	Fugitive Emissions (non-PTE)
NO_X	51.6	0
PM_{10}	3.1	50.3
$PM_{2.5}$	3.1	20.3
CO	55.4	0

SO_2	22.7	6.6
VOC	6.0	15.0
HAPs	1.1	1.8
NMOCs	2.3	37.9
GHG (CO_2e)	4313.7	-

VI. APPLICABLE REGULATIONS

Table 3 identifies applicable regulations and verification as to why that standard applies. The table also contains a discussion of any regulations the emission unit is exempt from.

Table 3: Applicable Regulations

Unit & year	Control Device	Rule	Discussion
Municipal Solid Waste (MSW) Landfill	Unenclosed Flare, Active Collection System	A.A.C. R18-2-731 40 CFR 60 Subpart Cf 40 CFR 60 Subpart XXX	A.A.C. R18-2-731 applies to MSW landfills that began construction, reconstruction, or modification on or before July 17, 2014 and accepted waste at any time since November 8, 1987 or has capacity available for future waste deposition. This standard requires the Permittee to comply with 40 CFR 60 Subpart Cf, or satisfy the requirements of 40 CFR 60 Subpart Cf by complying with 40 CFR 60 Subpart XXX. The Permittee elected to comply with 40 CFR 60 Subpart XXX to satisfy the requirements of A.A.C. R18-2-731 and 40 CFR 60 Subpart Cf. 40 CFR 63 Subpart AAAA applies to MSW landfills that has accepted waste since November 1987, 1987 or has additional capacity for waste deposition, and has a design capacity greater than 2.5 million megagrams and 2.5 million cubic meters with estimated uncontrolled emissions equal to or greater than 50 megagrams per year NMOC.
Generator	None	40 CFR 60 Subpart IIII	40 CFR 60 Subpart IIII applies to stationary compression ignition non-emergency internal combustion engines manufactured after 2007.

Unit & year	Control Device	Rule	Discussion
Asbestos Handling		40 CFR 61.154 Subpart M	40 CFR 61.154 Subpart M applies to active waste disposal sites that receive asbestos-containing waste material from asbestos mills; manufacturing, fabricating, demolition, renovation, and spraying operations; and operations that convert asbestos containing waste into nonasbestos (asbestos-free) material.
Fugitive dust sources	Water Trucks, Dust Suppressants	A.A.C. R18-2 Article 6 A.A.C. R18-2-702	These standards are applicable to all fugitive dust sources at the facility.
Abrasive Blasting	Wet blasting; Dust collecting equipment; Other approved methods	A.A.C. R-18-2-702 A.A.C. R-18-2-726	These standards are applicable to any abrasive blasting operation.
Spray Painting	Enclosures	A.A.C. R18-2-702 A.A.C. R-18-2-727	These standards are applicable to any spray painting operation.
Demolition/renovation Operations	N/A	A.A.C. R18-2-1101.A.8	This standard is applicable to any asbestos related demolition or renovation operations.

VII. PREVIOUS PERMIT REVISIONS AND CONDITIONS

A. Previous Permit Revisions

Table 4 provides a description of the permit revisions made to Permit No. 65028 during the previous permit term.

Table 4: Permit Revisions to Permit No. 65028

Permit Revision No.	Permit Revision Type	Brief Description
76762	Minor Permit Revision	Installation of the gas collection and control system

B. Changes to Current Renewal

Table 5 addresses the changes made to the sections and conditions from Permit No. 65028:

Table 5: Previous Permit Conditions

Section No.	Determination			Comments
	Added	Revised	Deleted	
Att. "A"		X		General Provisions: Revised to represent the most recent template language
Att. "B" Section I		X		Facility Wide Requirements: Revised to represent the most recent template language
Att. "B" Section II		X		Landfill Operations: Revised to reflect the requirements of NSPS Subpart XXX and NESHAP Subpart AAAA
Att. "B" Section III			X	Collection and Control System: Combined with Section II to better reflect the current operating scenario of the Mohave Valley Landfill
Att. "B" Section IV		X		Asbestos: Revised to clarify applicability.
Att. "B" Section V		X		Internal Combustion Engines: Revised to reflect the most recent revisions to NSPS Subpart III
Att. "C"		X		Equipment List: Revised to reflect the current equipment operating at the facility and include the equipment information provided.

VIII. MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

Table 6 contains an inclusive but not an exhaustive list of the monitoring, recordkeeping and reporting requirements prescribed by the air quality permit. The table below is intended to provide insight to the public for how the Permittee is required to demonstrate compliance with the emission limits in the permit.

Table 6: Permit No. 92159

Emission Unit	Pollutant	Emission Limit	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
MSW Landfill	NMOC Methane		Monitor landfill gas temperature on a monthly basis. Enhanced monitoring is required if well temperature exceeds 63.8 degrees Celsius (145 degrees Fahrenheit) and 73.9 degrees Celsius (165 degrees Fahrenheit. Install, operate, and maintain a heat sensing device at the pilot light or flame, and a device that records flow to the flare and bypass of the flare. Conduct surface emissions monitoring for methane on a quarterly basis.	Keep records of the design capacity report, current amount of solid waste in place, and the year-by-year waste acceptance rate. Keep records of control system equipment data as measured during the initial performance test or compliance determination. Keep records of equipment operating parameters. Keep a readily accessible plot map showing each existing and planned collector in the system. Keep records of exceedances of operational standards and associated corrective actions and monitoring. Keep records of the annual recalculation of site-specific	Submit an amended design capacity report to provide notification of an increase in design capacity of the landfill within 90 days of the increase. Submit a revised design plan at least 90 days before expanding operations to an area not covered by the previously approved plan, or prior to installing or expanding the system in a way that is not consistent with the previously submitted design plan. Submit a closure report within 90 days of waste acceptance cessation. Submit an equipment removal report 30 days prior to removal or cessation of the control equipment. Submit semiannual reports documenting parameter exceedances, control system bypass, periods the system was not operating, locations of each exceedance of 500-ppm methane

Emission Unit	Pollutant	Emission Limit	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
				density, design capacity, and supporting documentation. Keep records of all collection and control system monitoring data for measured operating parameters.	concentration standard, date and location of new wells or collection systems, corrective actions taking more than 60 days to correct the exceedance, and enhance monitoring (if applicable). Submit reports of date, time, well identifier, temperature, and carbon monoxide reading within 24 hours if well temperature exceeds 76.7 degrees Celsius and carbon monoxide concentration is greater than or equal to 1,000 ppmv. Submit reports documenting corrective action and corresponding timeline associated with exceedances of well temperature standards.
Asbestos Handling	Asbestos			Maintain waste shipment records for all asbestos-containing material received. Maintain records of location, depth and area, and quantity of asbestos-containing material within the disposal site on a map or diagram of the disposal area.	Submit a copy of records of asbestos waste disposal locations and quantities upon closure. Notify the Director at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited and is covered.

Emission Unit	Pollutant	Emission Limit	Monitoring Requirements	Recordkeeping Requirements	Reporting Requirements
Fugitive Dust	PM	40% Opacity	A Method 9 observer is required to conduct a biweekly survey of visible emissions.	Record of the dates and types of dust control measures employed, and if applicable, the results of any Method 9 observations, and any corrective action taken to lower the opacity of any excess emissions.	
Abrasive Blasting	PM	20% Opacity		Record the date, duration and pollution control measures of any abrasive blasting project.	
Spray Painting	VOC	20% Opacity Control 96% of Overspray		Maintain records of the date, duration, quantity of paint used, any applicable SDS, and pollution control measures of any spray painting project.	
Demolition/ Renovation	Asbestos			Maintain records of all asbestos related demolition or renovation projects including the "NESHAP Notification for Renovation and Demolition Activities" form and all supporting documents	

IX. COMPLIANCE ASSURANCE MONITORING (CAM)

The CAM rule applies to pollutant-specific emission units (PSEU) at a major Title V source if the unit meets all of the following criteria:

A. The unit is subject to an emission limit or standard for the applicable regulated air pollutant;

B. The unit uses a control device to achieve compliance with the emission limit or standard; and

C. The unit has "potential pre-control device emissions" of the applicable regulated air pollutant equal to or greater than 100% of the amount (tons/year) required for a source to be classified as a major source. "Potential pre-control device emissions" means potential to emit (PTE, as defined in Title V) except emissions reductions achieved by the applicable control device are not taken into account.

The Mohave Valley Landfill is not subject to Compliance Assurance Monitoring because the facility is not subject to an emission limit or standard, and it does not have potential pre-control device emissions equal to or greater than the major source threshold.

X. LIST OF ABBREVIATIONS

A.A.C. ..... Arizona Administrative Code
ADEQ ..... Arizona Department of Environmental Quality
A.R.S. ..... Arizona Revised Statutes
CAM ..... Compliance Assurance Monitoring
CFR ..... Code of Federal Regulations
CO ..... Carbon Monoxide
CO_2e ..... CO_2 equivalent basis
EPA ..... Environmental Protection Agency
GHG ..... Greenhouse Gases
HAP ..... Hazardous Air Pollutant
MSW ..... Municipal Solid Waste
NAAQS ..... National Ambient Air Quality Standard
NESHAP ..... National Emission Standards for Hazardous Air Pollutants
NMOC ..... Nonmethane Organic Compounds
NO_X ..... Nitrogen Oxides
NSPS ..... New Source Performance Standards
PM10 ..... Particulate Matter less than 10 µm nominal aerodynamic diameter
PM2.5 ..... Particulate Matter less than 2.5 µm nominal aerodynamic diameter
PSEU ..... Pollutant-Specific Emission Unit
PTE ..... Potential to Emit
SO_2 ..... Sulfur Dioxide
TPY ..... Tons per Year
VOC ..... Volatile Organic Compound

CLASS I AIR QUALITY PERMIT

PERMIT No. 92159

PERMITTEE:	**Mohave County – Development Services**
FACILITY:	**Mohave Valley Landfill**
PLACE ID:	**832**
DATE ISSUED:	**June 28, 2022**
EXPIRY DATE:	**June 27, 2027**

SUMMARY

This Class I air quality permit is issued to Mohave County – Development Services, the Permittee, for the continued operation of the Mohave Valley Landfill. The facility is located at 3999 El Rodeo Road, Fort Mohave, Mohave County, Arizona 86426. This permit renews and supersedes Permit #65028.

The Mohave Valley Landfill is a municipal solid waste (MSW) landfill subject to Arizona Administrative Code (A.A.C.) R18-2-731 "Standards of Performance for Existing Municipal Solid Waste Landfills", which requires facilities to comply with the requirements of New Source Performance Standards (NSPS) Subpart Cf "Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills", or meet the requirements of NSPS Subpart Cf by complying with NSPS Subpart XXX "Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014". The Mohave Valley Landfill has elected to comply with the requirements of NSPS Subpart XXX to satisfy the requirements of A.A.C. R18-2-731. The Mohave Valley Landfill is also subject the requirements of National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart AAAA "Municipal Solid Waste Landfills."

The Mohave Valley Landfill operates an active gas collection and control system with an unenclosed flare to control the emission of nonmethane organic compounds (NMOC) generated by the landfill. The facility's potential to emit is below the major source threshold for all regulated pollutants. A Class I permit is required because an applicable regulation, NSPS Subpart XXX, requires the Permittee to obtain a Title V permit.

This permit is issued in accordance with Arizona Revised Statutes (ARS) 49-426. It contains requirements from Title 18, Chapter 2 of the A.A.C. and Title 40 of the Code of Federal Regulations. All definitions, terms, and conditions used in this permit conform to those in the Arizona Administrative Code R18-2-101 et. seq. (A.A.C.) and Title 40 of the Code of Federal Regulations (CFR), except as otherwise defined in this permit.

This page left blank intentionally

Table of Contents

ATTACHMENT "A": GENERAL PROVISIONS 4

I. PERMIT EXPIRATION AND RENEWAL 4
II. COMPLIANCE WITH PERMIT CONDITIONS 4
III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE 4
IV. POSTING OF PERMIT 5
V. FEE PAYMENT 5
VI. EMISSIONS INVENTORY QUESTIONNAIRE 5
VII. COMPLIANCE CERTIFICATION 6
VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS 7
IX. INSPECTION AND ENTRY 7
X. ACCIDENTAL RELEASE PROGRAM 7
XI. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING 8
XII. RECORDKEEPING REQUIREMENTS 14
XIII. REPORTING REQUIREMENTS 14
XIV. DUTY TO PROVIDE INFORMATION 14
XV. PERMIT AMENDMENT OR REVISION 15
XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION 15
XVII. TESTING REQUIREMENTS 17
XVIII. PROPERTY RIGHTS 19
XIX. SEVERABILITY CLAUSE 19
XX. PERMIT SHIELD 19
XXI. PROTECTION OF STRATOSPHERIC OZONE 19
XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS 19

ATTACHMENT "B": SPECIFIC CONDITIONS 21

I. FACILITY-WIDE REQUIREMENTS 21
II. LANDFILL OPERATIONS 23
III. ASBESTOS 56
IV. INTERNAL COMBUSTION ENGINES 60
V. FUGITIVE DUST REQUIREMENTS 64
VI. OTHER PERIODIC ACTIVITIES 65

ATTACHMENT "C": EQUIPMENT LIST 70

ATTACHMENT "A": GENERAL PROVISIONS

I. PERMIT EXPIRATION AND RENEWAL

A. This permit is valid for a period of five (5) years from the date of issuance.
[ARS § 49-426.F, A.A.C. R18-2-306.A.1]

B. The Permittee shall submit an application for renewal of this permit at least six (6) months, but not more than eighteen (18) months, prior to the date of permit expiration.
[A.A.C. R18-2-304.D.2]

II. COMPLIANCE WITH PERMIT CONDITIONS

A. The Permittee shall comply with all conditions of this permit including all applicable requirements of the Arizona Revised Statutes (A.R.S.) Title 49, Chapter 3, and the air quality rules under Title 18, Chapter 2 of the Arizona Administrative Code. Any permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, revision; or for denial of a permit renewal application. In addition, noncompliance with any federally enforceable requirement constitutes a violation of the Clean Air Act.
[A.A.C. R18-2-306.A.8.a]

B. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
[A.A.C. R18-2-306.A.8.b]

III. PERMIT REVISION, REOPENING, REVOCATION AND REISSUANCE, OR TERMINATION FOR CAUSE

A. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[A.A.C. R18-2-306.A.8.c]

B. The permit shall be reopened and revised under any of the following circumstances:

1. Additional applicable requirements under the Clean Air Act become applicable to the Class I source. Such a reopening shall only occur if there are three or more years remaining in the permit term. The reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of it terms and conditions has been extended pursuant to A.A.C. R18-2-322.B. Any permit revision required pursuant to this subparagraph shall comply with the provisions in A.A.C. R18-2-322 for permit renewal and shall reset the five-year permit term;
[A.A.C. R18-2-321.A.1.a]

2. Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the Class I permit;

[A.A.C. R18-2-321.A.1.b]

3. The Director or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; and

[A.A.C. R18-2-321.A.1.c]

4. The Director or the Administrator determines that the permit needs to be revised or revoked to assure compliance with the applicable requirements.

[A.A.C. R18-2-321.A.1.d]

C. Proceedings to reopen and issue a permit, including appeal of any final action relating to a permit reopening, shall follow the same procedures as apply to initial permit issuance and shall, except for reopenings under Condition III.B.1 above, affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable. Permit reopenings for reasons other than those stated in Condition III.B.1 above shall not result in a resetting of the five-year permit term.

[A.A.C. R18-2-321.A.2]

IV. POSTING OF PERMIT

A. The Permittee shall post this permit or a certificate of permit issuance at the facility in such a manner as to be clearly visible and accessible. All equipment covered by this permit shall be clearly marked with one of the following:

[A.A.C. R18-2-315.A]

1. Current permit number; or

2. Serial number or other equipment identification number (equipment ID number) that is also listed in the permit to identify that piece of equipment.

B. A copy of the complete permit shall be kept on site.

[A.A.C. R18-2-315.B]

V. FEE PAYMENT

The Permittee shall pay fees to the Director pursuant to ARS § 49-426(E) and A.A.C. R18-2-326.

[A.A.C. R18-2-306.A.9 and -326]

VI. EMISSIONS INVENTORY QUESTIONNAIRE

A. The Permittee shall complete and submit to the Director an emissions inventory questionnaire no later than June 1 of each year.

[A.A.C. R18-2-327.A.1.a]

B. The emissions inventory questionnaire shall be on an electronic or paper form provided by the Director and shall include the information required by A.A.C. R18-2-327.A.3 for the previous calendar year.

[A.A.C. R18-2-327.A.3]

C. The Permittee shall submit to the Director an amendment to an emissions inventory questionnaire, containing the documentation required by A.A.C. R18-2-327.A.3, whenever the Permittee discovers or receives notice, within two years of the original submittal, that incorrect or insufficient information was submitted to the Director by a previous emissions inventory questionnaire. The amendment shall be submitted to the Director within 30 days of discovery or receipt of notice. If the incorrect or insufficient information resulted in an incorrect annual emissions fee, the Director shall require that additional payment be made or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment shall not subject the Permittee to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was not due to willful neglect.

[A.A.C. R18-2-327.A.4]

VII. COMPLIANCE CERTIFICATION

A. The Permittee shall submit a compliance certification to the Director semiannually, which describes the compliance status of the source with respect to each permit condition. The first certification shall be submitted no later than May 15th, and shall report the compliance status of the source during the period between October 1st of the previous year and March 31st of the current year. The second certification shall be submitted no later than November 15th, and shall report the compliance status of the source during the period between April 1st and September 30th of the current year.

[A.A.C. R18-2-309.2.a]

B. The compliance certifications shall include the following:

1. Identification of each term or condition of the permit that is the basis of the certification;

[A.A.C. R18-2-309.2.c.i]

2. Identification of the methods or other means used by the Permittee for determining the compliance status with each term and condition during the certification period,

[A.A.C. R18-2-309.2c.ii]

3. Status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certifications shall identify each deviation (including any deviations reported pursuant to Condition XI.B of this Attachment) during the period covered by the certification and take it into account for consideration in the compliance certification;

[A.A.C. R18-2-309.2.c.iii]

4. For emission units subject to 40 CFR Part 64, the certification shall also identify as possible exceptions to compliance any period during which compliance is required and in which an excursion or exceedance defined under 40 CFR Part 64 occurred;

[A.A.C. R18-2-309.2.c.iii]

5. Other facts the Director may require to determine the compliance status of the source.

[A.A.C. R18-2-309.2.c.iv]

C. A copy of all compliance certifications shall also be submitted to the EPA Administrator.

[A.A.C. R18-2-309.2.d]

D. If any outstanding compliance schedule exists, a progress report shall be submitted with the semi-annual compliance certifications required in Condition VII.A above. The progress reports shall contain the information required by A.A.C R18-2-309.5.d.

[A.A.C. R18-2-309.5.d]

VIII. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[A.A.C. R18-2-309.3]

IX. INSPECTION AND ENTRY

Upon presentation of proper credentials, the Permittee shall allow the Director or the authorized representative of the Director to:

A. Enter upon the Permittee's premises where a source is located, emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.a]

B. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;

[A.A.C. R18-2-309.4.b]

C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

[A.A.C. R18-2-309.4.c]

D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and

[A.A.C. R18-2-309.4.d]

E. Record any inspection by use of written, electronic, magnetic and photographic media.

[A.A.C. R18-2-309.4.e]

X. ACCIDENTAL RELEASE PROGRAM

If this source becomes subject to the provisions of 40 CFR Part 68, then the Permittee shall comply with these provisions according to the time line specified in 40 CFR Part 68.

[40 CFR Part 68]

XI. EXCESS EMISSIONS, PERMIT DEVIATIONS, AND EMERGENCY REPORTING

A. Excess Emissions Reporting

[A.A.C. R18-2-310.01.A, B, and C]

1. Excess emissions shall be reported as follows:

   a. The Permittee shall report to the Director any emissions in excess of the limits established by this permit. Such report shall be in two parts as specified below:

      (1) Notification by telephone or facsimile within 24 hours of the time when the Permittee first learned of the occurrence of excess emissions including all available information from Condition XI.A.1.b below.

      (2) Detailed written notification by submission of an excess emissions report within 72 hours of the notification pursuant to Condition XI.A.1.a(1) above.

      [A.A.C. R18-2-310.01.A]

   b. The report shall contain the following information:

      (1) Identity of each stack or other emission point where the excess emissions occurred;

      [A.A.C. R18-2-310.01.B.1]

      (2) Magnitude of the excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the magnitude of the excess emissions;

      [A.A.C. R18-2-310.01.B.2]

      (3) Time and duration, or expected duration, of the excess emissions;

      [A.A.C. R18-2-310.01.B.3]

      (4) Identity of the equipment from which the excess emissions emanated;

      [A.A.C. R18-2-310.01.B.4]

      (5) Nature and cause of such emissions;

      [A.A.C. R18-2-310.01.B.5]

      (6) If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunctions;

      [A.A.C. R18-2-310.01.B.6]

      (7) Steps that were or are being taken to limit the excess emissions; and

      [A.A.C. R18-2-310.01.B.7]

(8) If the excess emissions resulted from startup or malfunction, the report shall contain a list of the steps taken to comply with any permit procedures governing source operation during periods of startup or malfunction.

[A.A.C. R18-2-310.01.B.8]

2. In the case of continuous or recurring excess emissions, the notification requirements shall be satisfied if the source provides the required notification after excess emissions are first detected and includes in such notification an estimate of the time the excess emissions will continue. Excess emissions occurring after the estimated time period, or changes in the nature of the emissions as originally reported, shall require additional notification pursuant to Condition XI.A.1 above.

[A.A.C. R18-2-310.01.C]

B. Permit Deviations Reporting

The Permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the applicable requirement contains a definition of prompt or otherwise specifies a timeframe for reporting deviations, that definition or timeframe shall govern. Where the applicable requirement does not address the timeframe for reporting deviations, the Permittee shall submit reports of deviations according to the following schedule:

1. Notice that complies with Condition XI.A.1 above is prompt for deviations that constitute excess emissions;

[A.A.C. R18-2-306.A.5.b.i]

2. Notice that is submitted within two working days of discovery of the deviation is prompt for deviations of permit conditions identified by Condition I.B.1 of Attachment "B";

[A.A.C. R18-2-306.A.5.b.ii]

3. Except as provided in Conditions XI.B.1 and 2 above, prompt notification of all other types of deviations shall be every 6 months, concurrent with the semi-annual compliance certifications required in Section 0, and can be submitted via myDEQ, the Arizona Department of Environmental Quality's online portal.

[A.A.C. R18-2-306.A.5.b.ii]

C. Emergency Provision

1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, that require immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[A.A.C. R18-2-306.E.1]

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if Condition XI.C.3 below is met.

[A.A.C. R18-2-306.E.2]

3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

[A.A.C. R18-2-306.E.3]

a. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;

[A.A.C. R18-2-306.E.3.a]

b. The permitted facility was being properly operated at the time of the emergency;

[A.A.C. R18-2-306.E.3.b]

c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and

[A.A.C. R18-2-306.E.3.c]

d. The Permittee submitted notice of the emergency to the Director by certified mail, facsimile, or hand delivery within two working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.

[A.A.C. R18-2-306.E.3.d]

4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

[A.A.C. R18-2-306.E.4]

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.

[A.A.C. R18-2-306.E.5]

D. Compliance Schedule

For any excess emission or permit deviation that cannot be corrected within 72 hours, the Permittee is required to submit a compliance schedule to the Director within 21 days of such occurrence. The compliance schedule shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with the permit terms or conditions that have been violated.

[ARS § 49-426.I.3]

E. Affirmative Defenses for Excess Emissions Due to Malfunctions, Startup, and Shutdown

1. Applicability

A.A.C. R18-2-310 establishes affirmative defenses for certain emissions in excess of an emission standard or limitation and applies to all emission standards or limitations except for standards or limitations:

a. Promulgated pursuant to Sections 111 or 112 of the Act;
[A.A.C. R18-2-310.A.1]

b. Promulgated pursuant to Titles IV or VI of the Clean Air Act;
[A.A.C. R18-2-310.A.2]

c. Contained in any Prevention of Significant Deterioration (PSD) or New Source Review (NSR) permit issued by the U.S. EPA;
[A.A.C. R18-2-310.A.3]

d. Contained in A.A.C. R18-2-715.F; or
[A.A.C. R18-2-310.A.4]

e. Included in a permit to meet the requirements of A.A.C. R18-2-406.A.5.
[A.A.C. R18-2-310.A.5]

2. Affirmative Defense for Malfunctions

Emissions in excess of an applicable emission limitation due to malfunction shall constitute a violation. When emissions in excess of an applicable emission limitation are due to a malfunction, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:
[A.A.C. R18-2-310.B]

a. The excess emissions resulted from a sudden and unavoidable breakdown of process equipment or air pollution control equipment beyond the reasonable control of the Permittee;
[A.A.C. R18-2-310.B.1]

b. The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;
[A.A.C. R18-2-310.B.2]

c. If repairs were required, the repairs were made in an expeditious fashion when the applicable emission limitations were being exceeded. Off-shift labor and overtime were utilized where practicable to ensure that the repairs were made as expeditiously as possible. If off-shift labor and overtime were not utilized, the Permittee satisfactorily demonstrated that the measures were impracticable;
[A.A.C. R18-2-310.B.3]

d. The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.B.4]

e. All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.B.5]

f. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;

[A.A.C. R18-2-310.B.6]

g. During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.B.7]

h. The excess emissions did not stem from any activity or event that could have been foreseen and avoided, or planned, and could not have been avoided by better operations and maintenance practices;

[A.A.C. R18-2-310.B.8]

i. All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.B.9]

j. The Permittee's actions in response to the excess emissions were documented by contemporaneous records.

[A.A.C. R18-2-310.B.10]

3. Affirmative Defense for Startup and Shutdown

a. Except as provided in Condition XI.E.3.b below, and unless otherwise provided for in the applicable requirement, emissions in excess of an applicable emission limitation due to startup and shutdown shall constitute a violation. When emissions in excess of an applicable emission limitation are due to startup and shutdown, the Permittee has an affirmative defense to a civil or administrative enforcement proceeding based on that violation, other than a judicial action seeking injunctive relief, if the Permittee has complied with the reporting requirements of A.A.C. R18-2-310.01 and has demonstrated all of the following:

[A.A.C. R18-2-310.C.1]

(1) The excess emissions could not have been prevented through careful and prudent planning and design;

[A.A.C. R18-2-310.C.1.a]

(2) If the excess emissions were the result of a bypass of control equipment, the bypass was unavoidable to prevent loss of life,

personal injury, or severe damage to air pollution control equipment, production equipment, or other property;

[A.A.C. R18-2-310.C.1.b]

(3) The air pollution control equipment, process equipment, or processes were at all times maintained and operated in a manner consistent with good practice for minimizing emissions;

[A.A.C. R18-2-310.C.1.c]

(4) The amount and duration of the excess emissions (including any bypass operation) were minimized to the maximum extent practicable during periods of such emissions;

[A.A.C. R18-2-310.C.1.d]

(5) All reasonable steps were taken to minimize the impact of the excess emissions on ambient air quality;

[A.A.C. R18-2-310.C.1.e]

(6) During the period of excess emissions there were no exceedances of the relevant ambient air quality standards established in Title 18, Chapter 2, Article 2 of the Arizona Administrative Code that could be attributed to the emitting source;

[A.A.C. R18-2-310.C.1.f]

(7) All emissions monitoring systems were kept in operation if at all practicable; and

[A.A.C. R18-2-310.C.1.g]

(8) Contemporaneous records documented the Permittee's actions in response to the excess emissions.

[A.A.C. R18-2-310.C.1.h]

b. If excess emissions occur due to a malfunction during routine startup and shutdown, then those instances shall be treated as other malfunctions subject to Condition XI.E.2 above.

[A.A.C. R18-2-310.C.2]

4. Affirmative Defense for Malfunctions during Scheduled Maintenance

If excess emissions occur due to a malfunction during scheduled maintenance, then those instances will be treated as other malfunctions subject to Condition XI.E.2 above.

[A.A.C. R18-2-310.D]

5. Demonstration of Reasonable and Practicable Measures

For an affirmative defense under Condition XI.E.2 or XI.E.3, the Permittee shall demonstrate, through submission of the data and information required by this Condition XI.E and Condition XI.A.1 above, that all reasonable and practicable measures within the Permittee's control were implemented to prevent the occurrence of the excess emissions.

[A.A.C. R18-2-310.E]

XII. RECORDKEEPING REQUIREMENTS

A. The Permittee shall keep records of all required monitoring information including, but not limited to, the following:

[A.A.C. R18-2-306.A.4.a]

1. The date, place as defined in the permit, and time of sampling or measurements;
[A.A.C. R18-2-306.A.4.a.i]

2. The date(s) any analyses were performed;
[A.A.C. R18-2-306.A.4.a.ii]

3. The name of the company or entity that performed the analyses;
[A.A.C. R18-2-306.A.4.a.iii]

4. A description of the analytical techniques or methods used;
[A.A.C. R18-2-306.A.4.a.iv]

5. The results of analyses; and
[A.A.C. R18-2-306.A.4.a.v]

6. The operating conditions as existing at the time of sampling or measurement.
[A.A.C. R18-2-306.A.4.a.vi]

B. The Permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings or other data recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
[A.A.C. R18-2-306.A.4.b]

XIII. REPORTING REQUIREMENTS

The Permittee shall submit the following reports:

A. Compliance certifications in accordance with Section 0 above.
[A.A.C. R18-2-306.A.5.a]

B. Excess emission; permit deviation, and emergency reports in accordance with Section XI above.
[A.A.C. R18-2-306.A.5.b]

C. Other reports required by any condition of Attachment “B”.
[A.A.C. R18-2-306.A.5.a]

XIV. DUTY TO PROVIDE INFORMATION

A. The Permittee shall furnish to the Director, within a reasonable time, any information that the Director may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon

request, the Permittee shall also furnish to the Director copies of records required to be kept by the permit. For information claimed to be confidential, the Permittee shall furnish an additional copy of such records directly to the Administrator along with a claim of confidentiality.

[A.A.C. R18-2-304.G and -306.A.8.e]

B. If the Permittee has failed to submit any relevant facts or has submitted incorrect information in the permit application, the Permittee shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

[A.A.C. R18-2-304.H]

XV. PERMIT AMENDMENT OR REVISION

The Permittee shall apply for a permit amendment or revision for changes to the facility which do not qualify for a facility change without revision under Section XVI below, as follows:

A. Administrative Permit Amendment;

[A.A.C. R18-2-318]

B. Minor Permit Revision; and

[A.A.C. R18-2-319]

C. Significant Permit Revision

[A.A.C. R18-2-320]

D. The applicability and requirements for such action are defined in the above referenced regulations.

XVI. FACILITY CHANGE WITHOUT A PERMIT REVISION

A. The Permittee may make changes that contravene an express permit term without a permit revision if all of the following apply:

1. The changes are not modifications under any provision of Title I of the Act or under ARS § 49-401.01(24);

[A.A.C. R18-2-317.A.1]

2. The changes do not exceed the emissions allowable under the permit whether expressed therein as a rate of emissions or in terms of total emissions;

[A.A.C. R18-2-317.A.2]

3. The changes do not violate any applicable requirements or trigger any additional applicable requirements;

[A.A.C. R18-2-317.A.3]

4. The changes satisfy all requirements for a minor permit revision under A.A.C. R18-2-319.A;

[A.A.C. R18-2-317.A.4]

5. The changes do not contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements; and

[A.A.C. R18-2-317.A.5]

6. The changes do not constitute a minor NSR modification.

[A.A.C. R18-2-317.A.6]

B. The substitution of an item of process or pollution control equipment for an identical or substantially similar item of process or pollution control equipment shall qualify as a change that does not require a permit revision, if it meets all of the requirements of Conditions XVI.A, C, and D of this Attachment.

[A.A.C. R18-2-317.B]

C. For each change under Conditions XVI.A and XVI.B above, a written notice by certified mail or hand delivery shall be received by the Director and the Administrator a minimum of 7 working days in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided less than 7 working days in advance of the change, but shall be provided as far in advance of the change as possible or, if advance notification is not practicable, as soon after the change as possible.

[A.A.C. R18-2-317.D]

D. Each notification shall include:

1. When the proposed change will occur;

[A.A.C. R18-2-317.E.1]

2. A description of the change;

[A.A.C. R18-2-317.E.2]

3. Any change in emissions of regulated air pollutants; and

[A.A.C. R18-2-317.E.3]

4. Any permit term or condition that is no longer applicable as a result of the change.

[A.A.C. R18-2-317.E.7]

E. The permit shield described in A.A.C. R18-2-325 shall not apply to any change made under this Section XVI.

[A.A.C. R18-2-317.F]

F. Except as otherwise provided for in the permit, making a change from one alternative operating scenario to another as provided under A.A.C. R18-2-306.A.11 shall not require any prior notice under this Section XVI.

[A.A.C. R18-2-317.G]

G. Notwithstanding any other part of Section XVI, the Director may require a permit to be revised for any change that, when considered together with any other changes submitted by the same source under Section XVI over the term of the permit, do not satisfy Condition XVI.A above.

[A.A.C. R18-2-317.H]

XVII. TESTING REQUIREMENTS

A. Except as provided in Condition XVII.F below, the Permittee shall conduct performance tests as specified in the permit and at such other times as may be required by the Director.

[A.A.C. R18-2-312.A]

B. Operational Conditions during Performance Testing

Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the source. The Permittee shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of start-up, shutdown, and malfunction (as defined in A.A.C. R18-2-101) shall not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.

[A.A.C. R18-2-312.C]

C. Performance Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in the Arizona Testing Manual unless modified by the Director pursuant to A.A.C. R18-2-312.B.

[A.A.C. R18-2-312.B]

D. Test Plan

At least 14 working days prior to performing a test, the Permittee shall submit a test plan to the Director, which shall include the following, in addition to all other applicable requirements, as identified in the Arizona Testing Manual:

[A.A.C. R18-2-312.B]

1. Test duration;
2. Test location(s);
3. Test method(s); and
4. Source operation and other parameters that may affect test results.

E. Stack Sampling Facilities

The Permittee shall provide, or cause to be provided, performance testing facilities as follows:

[A.A.C. R18-2-312.E]

1. Sampling ports adequate for test methods applicable to the facility;
2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

F. Interpretation of Final Results

Each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of the results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs is required to be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control, compliance may, upon the Director's approval, be determined using the arithmetic mean of the results of the other two runs. If the Director or the Director's designee is present, tests may only be stopped with the Director's or such designee's approval. If the Director or the Director's designee is not present, tests may only be stopped for good cause. Good cause includes: forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the Permittee's control. Termination of any test without good cause after the first run is commenced shall constitute a failure of the test. Supporting documentation, which demonstrates good cause, shall be submitted.

[A.A.C. R18-2-306.A.3.c and A.A.C. R18-2-312.F]

G. Report of Final Test Results

A written report of the results of performance tests conducted pursuant to 40 CFR 63, shall be submitted to the Director within 60 days after the test is performed. A written report of the results of all other performance tests shall be submitted within 4 weeks after the completion of the testing as specified in the Arizona Testing Manual. All performance testing reports shall be submitted in accordance with the Arizona Testing Manual and A.A.C. R18-2-312.A.

[A.A.C. R18-2-312.A and B]

H. Extension of Performance Test Deadline

For performance testing required under Condition XVII.A above, the Permittee may request an extension to a performance test deadline due to a force majeure event as follows:

[A.A.C. R18-2-312.J]

1. If a force majeure event is about to occur, occurs, or has occurred for which the Permittee intends to assert a claim of force majeure, the Permittee shall notify the Director in writing as soon as practicable following the date the Permittee first knew, or through due diligence should have known that the event may cause or caused a delay in testing beyond the regulatory deadline. The notification shall occur before the performance test deadline unless the initial force majeure or a subsequent force majeure event delays the notice, and in such cases, the notification shall be given as soon as practicable.

   [A.A.C. R18-2-312.J.1]

2. The Permittee shall provide to the Director a written description of the force majeure event and a rationale for attributing the delay in testing beyond the regulatory deadline to the force majeure; describe the measures taken or to be taken to minimize the delay; and identify a date by which the Permittee proposes to conduct the performance test. The performance test shall be conducted as soon as practicable after the force majeure event occurs.

[A.A.C. R18-2-312.J.2]

3. The decision as to whether or not to grant an extension to the performance test deadline is solely within the discretion of the Director. The Director shall notify the Permittee in writing of approval or disapproval of the request for an extension as soon as practicable.

[A.A.C. R18-2-312.J.3]

4. Until an extension of the performance test deadline has been approved by the Director under Conditions XVII.H.1, 2, and 3 above, the Permittee remains subject to the requirements of Section XVII.

[A.A.C. R18-2-312.J.4]

5. For purposes of this Section XVII, a "force majeure event" means an event that will be or has been caused by circumstances beyond the control of the Permittee, its contractors, or any entity controlled by the Permittee that prevents it from complying with the regulatory requirement to conduct performance tests within the specified timeframe despite the Permittee's best efforts to fulfill the obligation. Examples of such events are acts of nature, acts of war or terrorism, or equipment failure or safety hazard beyond the control of the Permittee.

[A.A.C. R18-2-312.J.5]

XVIII. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

[A.A.C. R18-2-306.A.8.d]

XIX. SEVERABILITY CLAUSE

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force.

[A.A.C. R18-2-306.A.7]

XX. PERMIT SHIELD

Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements identified in the portions of this permit subtitled "Permit Shield". The permit shield shall not apply to minor revisions pursuant to Condition XV.B of this Attachment and any facility changes without a permit revision pursuant to Condition XVI of this Attachment.

[A.A.C. R18-2-317.F, - 320, and -325]

XXI. PROTECTION OF STRATOSPHERIC OZONE

If this source becomes subject to the provisions of 40 CFR Part 82, then the Permittee shall comply with these provisions accordingly.

[40 CFR Part 82]

XXII. APPLICABILITY OF NSPS/NESHAP GENERAL PROVISIONS

For all equipment subject to a New Source Performance Standard or a National Emission Standard for Hazardous Air Pollutants, the Permittee shall comply with all applicable requirements contained in Subpart A of Title 40, Chapter 60 and Chapter 63 of the Code of Federal Regulations.

[40 CFR Part 60 Subpart A and Part 63 Subpart A]

ATTACHMENT "B": SPECIFIC CONDITIONS

I. FACILITY-WIDE REQUIREMENTS

A. Opacity

1. Instantaneous Surveys and Six-Minute Observations

a. Instantaneous Surveys

Any instantaneous survey required by this permit shall be determined by either option listed in Conditions I.A.1.a(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9 Certified Observer.

[A.A.C. R18-2-306.A.3.c]

b. Six-Minute Observations

Any six-minute observation required by this permit shall be determined by either option listed in Conditions I.A.1.b(1) and (2):

[A.A.C. R18-2-311.b]

(1) Alternative Method ALT-082 (Digital Camera Operating Technique)

(a) The Permittee, or Permittee representative, shall be certified in the use of Alternative Method ALT-082.

(b) The results of all instantaneous surveys and six-minute observations shall be obtained within 30 minutes.

(2) EPA Reference Method 9.

c. The Permittee shall have on site or on call a person certified in EPA Reference Method 9 unless all six-minute Method 9 observations required by this permit are conducted as a six-minute Alternative Method ALT-082 (Digital Camera Operating Technique) and all instantaneous visual surveys required by this permit are conducted as an instantaneous ALT-082 camera survey. Any six-minute Method 9 observation required by this permit can be conducted as a six-minute Alternative Method ALT-082

and any instantaneous visual survey required by this permit can be conducted as an instantaneous ALT-082 camera survey.

[A.A.C. R18-2-306.A.3.c]

2. Monitoring, Recordkeeping, and Reporting Requirements

[A.A.C. R18-2-306.A.3.c]

a. At the frequency specified in the following sections of this permit, the Permittee shall conduct an instantaneous survey of visible emissions from both process stack sources, when in operation, and fugitive dust sources.

b. If the visible emissions on an instantaneous basis appears less than or equal to the applicable opacity standard, then the Permittee shall keep a record of the name of the observer, the date on which the instantaneous survey was made, and the results of the instantaneous survey.

c. If the visible emissions on an instantaneous basis appears greater than the applicable opacity standard, then the Permittee shall immediately conduct a six-minute observation of the visible emissions.

(1) If the six-minute observation of the visible emissions is less than or equal to the applicable opacity standard, then the Permittee shall record the name of the observer, the date on which the six-minute observation was made, and the results of the six-minute observation.

(2) If the six-minute observation of the visible emissions is greater than the applicable opacity standard, then the Permittee shall do the following:

(a) Adjust or repair the controls or equipment to reduce opacity to less than or equal to the opacity standard;

(b) Record the name of the observer, the date on which the six-minute observation was made, the results of the six-minute observation, and all corrective action taken; and

(c) Report the event as an excess emission for opacity in accordance with Condition XI.A of Attachment "A".

(d) Conduct another six-minute observation to document the effectiveness of the adjustments or repairs completed.

B. Reporting Requirements

1. The Permittee shall submit reports of all recordkeeping, monitoring activities, and maintenance required in Attachment "B" along with the compliance certifications required by Condition VII of Attachment "A".

[A.A.C. R18-2-306.A.5.a]

2. Deviations from the following Attachment "B" permit conditions shall be promptly reported in accordance with Condition XI.B.2 of Attachment "A":
[A.A.C. R18-2-306.A.5.b]

a. Condition V.B.3.b

II. LANDFILL OPERATIONS

A. Applicability

Section II applies to landfill operations and the gas collection and control system.

B. Gas Collection and Control System Installation Standards

1. The Permittee of an MSW landfill with a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters with an NMOC emission rate equal to or greater than 34 megagrams per year using Tier 1, 2, or 3 procedures in 40 CFR 60.672(a) and 40 CFR 63.1959(a) shall:
[40 CFR 60.762(b)(2); 40 CFR 63.1959(b)(2)]

a. Install and start up a collection and control system that captures the gas generated within the landfill as required by Conditions II.B.1.a(1) and II.B.1.b:
[40 CFR 60.762(b)(2)(ii); 40 CFR 63.1959(b)(2)(ii)]

(1) An active collection system shall:
[40 CFR 60.762(b)(2)(ii)(C); 40 CFR 63.1959(b)(2)(ii)(B)]

(a) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment;
[40 CFR 60.762(b)(2)(ii)(C)(1); 40 CFR 63.1959(b)(2)(ii)(B)(1)]

(b) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade.
[40 CFR 60.762(b)(2)(ii)(C)(2); 40 CFR 63.1959(b)(2)(ii)(B)(2)]

(c) Collect gas at a sufficient extraction rate;
[40 CFR 60.762(b)(2)(ii)(C)(3); 40 CFR 63.1959(b)(2)(ii)(B)(3)]

(d) Be designed to minimize off-site migration of subsurface gas.
[40 CFR 60.762(b)(2)(ii)(C)(4); 40 CFR 63.1959(b)(2)(ii)(B)(4)]

b. Route all the collected gas to a non-enclosed flare designed and operated in accordance with the parameters established in 40 CFR 60.18 and 40 CFR 63.11(b), except as noted in Condition II.B.1.d.
[40 CFR 60.762(b)(2)(iii)(A); 40 CFR 63.1959(b)(2)(iii)(A)]

c. The Permittee shall operate the collection and control device in accordance with Conditions II.C, II.D, and II.E.

[40 CFR 60.762(b)(2)(iv); 40 CFR 63.1957(a)]

d. For the performance test required in Condition II.B.1.b, the net heating value of the combusted landfill gas as determined in 40 CFR 60.18(f)(3) is calculated from the concentration of methane in the landfill gas as measured by Method 3C. A minimum of three 30-minute Method 3C samples are determined. The measurement of other organic components, hydrogen, and carbon monoxide is not applicable. Method 3C may be used to determine the landfill gas molecular weight for calculating the flare gas exit velocity under 40 CFR 60.18(f)(4).

[40 CFR 60.764(e); 40 CFR 63.1959(e)]

(1) Within 60 days after the date of completing each performance test (as defined in 40 CFR 60.8 and 40 CFR 63.7), the Permittee shall submit the results of the performance tests, including any associated fuel analyses, required by Condition II.B.3.b according to Condition II.G.10.a.

[40 CFR 60.764(e)(1); 40 CFR 63.1959(e)(1)]

2. Active Collection System Specifications

a. The Permittee shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternative procedures have been approved by the Administrator as provided in Condition II.G.3.b and c:

[40 CFR 60.769(a); 40 CFR 63.1962(a)]

(1) The collection devices within the interior shall be certified to achieve comprehensive control of surface gas emissions by a professional engineer. The following issues shall be addressed in the design: Depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management, accessibility, compatibility with filling operations, integration with closure end use, air intrusion control, corrosion resistance, fill settlement, resistance to the refuse decomposition heat, and ability to isolate individual components or sections for repair or troubleshooting without shutting down entire collection system.

[40 CFR 60.769(a)(1); 40 CFR 63.1962(a)(1)]

(2) The sufficient density of gas collection devices determined in Condition II.B.2.a(1) shall address landfill gas migration issues and augmentation of the collection system through the use of active or passive systems at the landfill perimeter or exterior.

[40 CFR 60.769(a)(2); 40 CFR 63.1962(a)(3)]

(3) The placement of gas collection devices determined in Condition II.B.2.a(1) shall control all gas producing areas, except as provided by Conditions II.B.2.a(3)(a) and (b) below:
[40 CFR 60.769(a)(3); 40 CFR 63.1962(a)(3)]

(a) Any segregated area of asbestos or nondegradable material may be excluded from collection if documented as provided under Condition II.F.4. The documentation shall provide the nature, date of deposition, location and amount of asbestos or nondegradable material deposited in the area, and shall be provided to the Administrator upon request.
[40 CFR 60.769(a)(3)(i); 40 CFR 63.1962(a)(3)(i)]

(b) Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than 1 percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material shall be documented and provided to the Administrator upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill.
[40 CFR 60.769(a)(3)(ii); 40 CFR 63.1962(a)(3)(ii)]

(i) The NMOC emissions from each section proposed for exclusion shall be computed using the following equation:
[40 CFR 60.769(a)(3)(ii)(A); 40 CFR 60.769(a)(3)(ii)(A)]

$$Q_i = 2\ k\ L_0 M_i\ (e^{-kt_i})(C_{NMOC})(3.6 \times 10^{-9})$$

Where:

Q_i = NMOC emission rate from the i^{th} section, megagrams per year.

k = Methane generation rate constant, $year^{-1}$.

L_o = Methane generation potential, cubic meters per megagram solid waste.

M_i = Mass of the degradable solid waste in the i^{th} section, megagram.

t_i = Age of the solid waste in the i^{th} section, years.

C_{NMOC} = Concentration of nonmethane organic compounds, parts per million by volume.

3.6×10^{-9} = Conversion factor.

(ii) If the Permittee is proposing to exclude, or cease gas collection and control from, nonproductive physically separated (*e.g.,* separately lined) closed areas that already have gas collection systems, NMOC emissions from each physically separated closed area shall be computed using either the equation in Condition II.B.3.b or the equation in Condition II.B.2.a(3)(b)(i) above.
[40 CFR 60.769(a)(3)(ii)(B); 40 CFR 63.1962(a)(3)(ii)(B)]

(c) The values for k and C_{NMOC} determined in field testing shall be used if field testing has been performed in determining the NMOC emission rate or the radii of influence (this distance from the well center to a point in the landfill where the pressure gradient applied by the blower or compressor approaches zero). If field testing has not been performed, the default values for k, L_o and C_{NMOC} provided in 40 CFR 60.764(a)(1) and 40 CFR 63.1959(1) or the alternative values from 40 CFR 60.764(a)(5) and 40 CFR 63.1959(a)(5) shall be used. The mass of nondegradable solid waste contained within the given section may be subtracted from the total mass of the section when estimating emissions provided the nature, location, age, and amount of the nondegradable material is documented as provided in Condition II.B.2.a(3)(a) above.
[40 CFR 60.769(a)(3)(iii); 40 CFR 63.1962(a)(3)(iii)]

b. The Permittee seeking to comply with Condition II.B.1.a shall construct the gas collection devices using the following equipment or procedures:
[40 CFR 60.769(b); 40 CFR 63.1962(b)]

(1) The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: Convey projected amounts of gases; withstand installation, static, and settlement forces; and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration.
[40 CFR 60.769(b)(1); 40 CFR 63.1962(b)(1)]

(2) Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill.

Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover or refuse into the collection system or gas into the air. Any gravel used around pipe perforations should be of a dimension so as not to penetrate or block perforations.

[40 CFR 60.769(b)(2); 40 CFR 63.1962(b)(2)]

(3) Collection devices may be connected to the collection header pipes below or above the landfill surface. The connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port. The collection devices shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other nonporous material of suitable thickness.

[40 CFR 60.769(b)(3); 40 CFR 63.1962(b)(3)]

c. The Permittee seeking to comply with condition II.B.1.b shall convey the landfill gas to a control system in compliance with Condition II.B.1.b through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures:

[40 CFR 60.769(c); 40 CFR 63.1962(c)]

(1) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures in Condition II.B.2.c(2) shall be used.

[40 CFR 60.769(c)(1); 40 CFR 63.1962(c)(1)]

(2) For new collection systems, the maximum flow rate shall be in accordance with Condition II.D.1.a.

[40 CFR 60.769(c)(2); 40 CFR 63.1962(c)(2)]

3. Removal Standards

a. The collection and control system may be capped, removed, or decommissioned if the following criteria are met:

[40 CFR 60.762(b)(2)(v); 40 CFR 63.1957(b)]

(1) The landfill is a closed landfill (as defined in 40 CFR 60.761 and 40 CFR 63.1990). A closure report shall be submitted to the Administrator as provided in Condition II.G.5.

[40 CFR 60.762(b)(2)(v)(A); 40 CFR 63.1957(b)(1)]

(2) The collection and control system has been in operation a minimum of 15 years or the Permittee demonstrates that the

GCCS will be unable to operate for 15 years due to declining gas flow.

[40 CFR 60.762(b)(2)(v)(B); 40 CFR 63.1957(b)(2)]

(3) Following the procedures specified in Condition II.B.3.b, the calculated NMOC emission rate at the landfill is less than 34 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.

[40 CFR 60.762(b)(2)(v)(C); 40 CFR 63.1957(b)(3)]

b. After the installation and startup of a collection and control system in compliance with this subpart, the Permittee shall calculate the NMOC emission rate for purposes of determining when the system can be capped, removed or decommissioned as provided in Condition II.B.3.a, using the following equation:

[40 CFR 60.764(b); 40 CFR 63.1959(c)]

$M_{NMOC} = 1.89 \text{ X } 10^{-3} Q_{LFG} C_{NMOC}$

Where:

M_{NMOC} = Mass emission rate of NMOC, megagrams per year.

Q_{LFG} = Flow rate of landfill gas, cubic meters per minute.

C_{NMOC} = NMOC concentration, parts per million by volume as hexane.

(1) The flow rate of landfill gas, Q_{LFG}, shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control system using a gas flow measuring device calibrated according to the provisions of section 10 of Method 2E of appendix A of 40 CFR part 60.

[40 CFR 60.764(b)(1); 40 CFR 63.1959(c)(1)]

(2) The average NMOC concentration, C_{NMOC}, shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25 or Method 25C. The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The landfill Permittee shall divide the NMOC concentration from Method 25 or Method 25C of appendix A of 40 CFR part 60 by six to convert from C_{NMOC} as carbon to C_{NMOC} as hexane.

[40 CFR 60.764(b)(2); 40 CFR 63.1959(c)(2)]

(3) The Permittee may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator.

[40 CFR 60.764(b)(3); 40 CFR 63.1959(c)(3)]

(a) Within 60 days after the date of completing each performance test (as defined in 40 CFR 60.8 and 40 CFR 63.7), the Permittee shall submit the results of the performance test, including any associated fuel analyses, according to Condition II.G.10.a.

[40 CFR 60.764(b)(3)(i); 40 CFR 63.1959(c)(3)(i)]

C. Gas Collection and Control System Operational Standards

The Permittee of an MSW landfill with a gas collection and control system used to comply with Condition II.B.1 shall:

1. Operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for:

[40 CFR 60.763(a); 40 CFR 63.1958(a)]

a. 5 years or more if active; or

b. 2 years or more if closed or at final grade;

2. Operate the collection system with negative pressure at each wellhead except under the following conditions:

[40 CFR 60.763(b); 40 CFR 63.1958(b)]

a. A fire or increased well temperature. The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the semiannual reports as provided in Condition II.G.7;

b. Use of a geomembrane or synthetic cover. The Permittee shall develop acceptable pressure limits in the design plan;

c. A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator as specified in Condition II.G.3;

3. Operate each interior wellhead in the collection system with a landfill gas temperature less than 62.8 degrees Celsius (145 degrees Fahrenheit).

[40 CFR 63.1958(c)(1)]

a. The Permittee may establish a higher operating temperature value at a particular well. A higher operating value demonstration shall be submitted to the Administrator for approval and shall include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration shall satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable).

[40 CFR 63.1958(c)(2)]

4. Operate the collection system so that the methane concentration is less than 500 parts per million (ppm) above background at the surface of the landfill. To determine if this level is exceeded, the Permittee shall conduct surface testing

around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The Permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

[40 CFR 63.1958(d)(1)]

a. The Permittee shall:

[40 CFR 63.1958(d)(2)]

(1) Conduct surface testing using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in Condition II.D.4.

(2) Conduct surface testing at all cover penetrations. Thus, the Permittee shall monitor any cover penetrations that are within an area of the landfill where waste has been placed and a gas collection system is required.

(3) Determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates shall be in decimal degrees with at least five decimal places.

5. Operate the system in accordance with Condition II.C.7 such that all collected gases are vented to a control system designed and operated in compliance with Condition II.B.1.b. In the event the collection or control system is not operating:

[40 CFR 60.763(e); 40 CFR 63.1958(e)(1)]

a. The gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour of the collection or control system not operating; and

b. Efforts to repair the collection or control system shall be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system shall be returned to operation.

6. Operate the control system at all times when the collected gas is routed to the system.

[40 CFR 60.763(f); 40 CFR 63.1958(f)]

7. If monitoring demonstrates that the operational requirements in Conditions II.C.2, II.C.3, and II.C.4 are not met, corrective action shall be taken as specified in Conditions II.D.1.c and II.D.3. If applicable corrective actions are taken as specified in Condition II.D, the monitored exceedance is not a deviation of the operational requirements.

[40 CFR 63.1958(g)]

8. Operate and maintain the landfill, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if the requirements of this subpart have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Director which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.1955(c)]

D. Compliance Provisions

1. Except as provided in Condition II.G.3.b, the specified methods in Conditions II.D.1.a through d shall be used to determine whether the gas collection system is in compliance with Condition II.B.1.a.

[40 CFR 60.765(a); 40 CFR 63.1960(a)]

a. For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with Condition II.B.1.a(1)(a), the following equations shall be used as applicable. The methane generation rate constant (k) and methane generation potential (L_o) kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42) or other site specific values demonstrated to be appropriate and approved by the Administrator. If k has been determined as specified in 40 CFR 60.764(a)(4) and 40 CFR 63.1959(a)(4), the value of k determined from the test shall be used. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.

[40 CFR 60.765(a)(1); 40 CFR 63.1960(a)(1)]

(1) For sites with unknown year-to-year solid waste acceptance rate:

[40 CFR 60.765(a)(1)(i); 40 CFR 63.1960(a)(1)(i)]

$$Q_m = 2L_0R\ (e^{-kc} - e^{-kt})$$

Where:

Q_m = Maximum expected gas generation flow rate, cubic meters per year.

L_o = Methane generation potential, cubic meters per megagram solid waste.

R = Average annual acceptance rate, megagrams per year.

k = Methane generation rate constant, $year^{-1}$.

t = Age of the landfill at equipment installation plus the time the Permittee intends to use the gas mover equipment or active life of the landfill, whichever is less. If the equipment is installed after closure, t is the age of the landfill at installation, years.

c = Time since closure, years (for an active landfill c = 0 and e^{-kc} = 1).

(2) For sites with known year-to-year solid waste acceptance rate:
[40 CFR 60.765(a)(1)(ii); 40 CFR 63.1960(a)(1)(ii)]

$Q_m = \sum_{i=1}^{n} 2k\ L_o M_i (e^{-kt}i)$

Where:

Q_M = Maximum expected gas generation flow rate, cubic meters per year.

k = Methane generation rate constant, $year^{-1}$.

L_o = Methane generation potential, cubic meters per megagram solid waste.

M_i = Mass of solid waste in the i^{th} section, megagrams.

t_i = Age of the i^{th} section, years.

(3) If a collection and control system has been installed, actual flow data may be used to project the maximum expected gas generation flow rate instead of, or in conjunction with, the applicable equation in Conditions II.D.1.a(1) and (2) above. If the landfill is still accepting waste, the actual measured flow data will not equal the maximum expected gas generation rate, so calculations using the applicable equation in Conditions II.D.1.a(1) and (2) above or other methods shall be used to predict the maximum expected gas generation rate over the intended period of use of the gas control system equipment.
[40 CFR 60.765(a)(1)(iii); 40 CFR 63.1960(a)(1)(iii)]

b. For the purposes of determining sufficient density of gas collectors for compliance with Condition II.B.1.a(1)(b), the Permittee shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.
[40 CFR 60.765(a)(2); 40 CFR 63.1960(a)(2)]

c. For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with Condition II.B.1.a(1)(c), the Permittee shall measure gauge pressure in the gas collection header

applied to each individual well monthly. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. If a positive pressure exists, follow the following procedures:

[40 CFR 63.1960(a)(3)]

(1) If a positive pressure exists, action shall be initiated to correct the exceedance within 5 days, except for the three conditions allowed under Condition II.C.2.

[40 CFR 63.1960(a)(3)(i)]

(a) If negative pressure cannot be achieved without excess air infiltration within 15 days of the first measurement of positive pressure, the Permittee shall conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after positive pressure was first measured. The Permittee shall keep records according to Condition II.F.5.c.

[40 CFR 63.1960(a)(3)(i)(A)]

(b) If corrective actions cannot be fully implemented within 60 days following the positive pressure measurement for which the root cause analysis was required, the Permittee shall also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the positive pressure measurement. The Permittee shall submit the items listed in Condition II.G.7.g as part of the next semi-annual report. The Permittee shall keep records according to Condition II.F.5.d.

[40 CFR 63.1960(a)(3)(i)(B)]

(c) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the Permittee shall submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to Condition II.G.9. The Permittee shall keep records according to Condition II.F.5.e.

[40 CFR 63.1960(a)(3)(i)(C)]

d. Where the Permittee seeks to demonstrate compliance with the temperature and nitrogen or oxygen operational standards in Condition II.C.3, for the purpose of identifying whether excess air infiltration into the landfill is occurring, the Permittee shall follow the procedures below:

[40 CFR 63.1960(a)(4)]

(1) Once the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, the Permittee shall monitor each well monthly for temperature. If a well exceeds the operating parameter for temperature as provided in Condition II.C.3, action shall be initiated to correct the exceedance within 5 days. Any attempted corrective measure shall not cause exceedances of other operational or performance standards.

[40 CFR 63.1960(a)(4)(i)]

(a) If a landfill gas temperature less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit) cannot be achieved within 15 days of the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit), the Permittee shall conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after a landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) was first measured. The Permittee shall keep records according to Condition II.F.5.c.

[40 CFR 63.1960(a)(4)(i)(A)]

(b) If corrective actions cannot be fully implemented within 60 days following the temperature measurement for which the root cause analysis was required, the Permittee shall also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit). The Permittee shall submit the items listed in Condition II.G.7.g as part of the next semi-annual report. The Permittee shall keep records according to Condition II.F.5.d.

[40 CFR 63.1960(a)(4)(i)(B)]

(c) If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the Permittee shall submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator, according to Conditions II.G.7.g and II.G.9. The Permittee shall keep records according to Condition II.F.5.e.

[40 CFR 63.1960(a)(4)(i)(C)]

(d) If a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured, according to the procedures in Condition II.E.1.d(6) is greater than or

equal to 1,000 ppmv the corrective action(s) for the wellhead temperature standard (62.8 degrees Celsius or 145 degrees Fahrenheit) shall be completed within 15 days.

[40 CFR 63.1960(a)(4)(i)(D)]

2. For purposes of compliance with Condition II.C.1, the Permittee shall place each well or design component as specified in the approved design plan as provided in Condition II.G.3. Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

[40 CFR 60.765(b); 40 CFR 63.1960(b)]

a. Five (5) years or more if active; or

b. Two (2) years or more if closed or at final grade.

3. The following procedures shall be used for compliance with the surface methane operational standard as provided in Condition II.C.4.

[40 CFR 60.765(c); 40 CFR 63.1960(c)]

a. After installation and startup of the gas collection system, the Permittee shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in Condition II.D.4.

[40 CFR 60.765(c)(1); 40 CFR 63.1960(c)(1)]

b. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.

[40 CFR 60.765(c)(2); 40 CFR 63.1960(c)(2)]

c. Surface emission monitoring shall be performed in accordance with section 8.3.1 of Method 21 of appendix A of 40 CFR part 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.

[40 CFR 60.765(c)(3); 40 CFR 63.1960(c)(3)]

d. Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in Conditions II.D.3.d(1) through (5) below shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of Condition II.C.4.

[40 CFR 60.765(c)(4); 40 CFR 63.1960(c)(4)]

(1) The location of each monitored exceedance shall be marked and the location and concentration recorded. The location shall be recorded using an instrument with an accuracy of at least 4 meters.

The coordinates shall be in decimal degrees with at least five decimal places.

[40 CFR 60.765(c)(4)(i); 40 CFR 63.1960(c)(4)(i))]

(2) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.

[40 CFR 60.765(c)(4)(ii); 40 CFR 63.1960(c)(4)(ii)]

(3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in Condition II.D.3.d(4) below shall be taken, and no further monitoring of that location is required until the action specified in Condition II.D.3.d(4) below has been taken.

[40 CFR 60.765(c)(4)(iii); 40 CFR 63.1960(c)(4)(iii)]

(4) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring specified in Conditions II.D.3.d(2) or (3) shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in Conditions II.D.3.d(3) or II.D.3.d(5) shall be taken.

[40 CFR 60.765(c)(4)(iv); 40 CFR 63.1960(c)(4)(iv)]

(5) For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval.

[40 CFR 60.765(c)(4)(v); 40 CFR 63.1960(c)(4)(v)]

e. The Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.

[40 CFR 60.765(c)(5); 40 CFR 63.1960(c)(5)]

4. The Permittee seeking to comply with Condition II.D.3 shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:

[40 CFR 60.765(d); 40 CFR 63.1960(d)]

a. The portable analyzer shall meet the instrument specifications provided in section 6 of Method 21 of appendix A of this 40 CFR subpart 60, except that "methane" replaces all references to "VOC".

[40 CFR 60.765(d)(1); 40 CFR 63.1960(d)(1)]

b. The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.

[40 CFR 60.765(d)(2); 40 CFR 63.1960(d)(2)]

c. To meet the performance evaluation requirements in section 8.1 of Method 21 of appendix A of 40 CFR subpart 60, the instrument evaluation procedures of section 8.1 of Method 21 of appendix A of 40 CFR Subpart 60 shall be used.

[40 CFR 60.765(d)(3); 40 CFR 63.1960(d)(3)]

d. The calibration procedures provided in sections 8 and 10 of Method 21 of appendix A of 40 CFR part 60 shall be followed immediately before commencing a surface monitoring survey.

[40 CFR 60.765(d)(4); 40 CFR 63.1960(d)(4)]

5. The provisions of this Condition apply at all times, including periods of startup, shutdown or malfunction. During periods of startup, shutdown, and malfunction, the Permittee shall comply with the work practice specified in Condition II.C.3 in lieu of the compliance provisions in Condition II.D.

[40 CFR 60.765(e); 40 CFR 63.1960(e)(2)]

E. Monitoring Requirements

1. The Permittee seeking to comply with Condition II.B.1.a(1) for an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

[40 CFR 60.766(a); 40 CFR 63.1961(a)]

a. Measure the gauge pressure in the gas collection header on a monthly basis as provided in Condition II.D.1.c; and

[40 CFR 60.766(a)(1); 40 CFR 63.1961(a)(1)]

b. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as follows:

[40 CFR 60.766(a)(2); 40 CFR 63.1961(a)(2)]

(1) The nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by Condition II.G.3.b.

[40 CFR 60.766(a)(2)(i); 40 CFR 63.1961(a)(2)(i)]

(2) Unless an alternative test method is established as allowed by Condition II.G.3.b, the oxygen level shall be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (incorporated by reference, see 40 CFR 60.17). Determine the

oxygen level by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) except that:
[40 CFR 60.766(a)(2)(ii); 40 CFR 63.1961(a)(2)(ii)]

(a) The span shall be set between 10 and 12 percent oxygen;

(b) A data recorder is not required;

(c) Only two calibration gases are required, a zero and span;

(d) A calibration error check is not required;

(e) The allowable sample bias, zero drift, and calibration drift are ±10 percent.

(3) A portable gas composition analyzer may be used to monitor the oxygen levels provided:
[40 CFR 60.766(a)(2)(iii); 40 CFR 63.1961(a)(2)(iii)]

(a) The analyzer is calibrated; and

(b) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522-11.

c. Where the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, monitor temperature of the landfill gas on a monthly basis as provided in Condition II.D.1.d. The temperature measuring device shall be calibrated annually using the procedure in Section 10.3 of EPA Method 2 of appendix A-1 to 40 CFR part 60. Keep records specified in Condition II.F.5.
[40 CFR 63.1961(a)(4)]

d. Where the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, unless a higher operating temperature value has been approved by the Administrator, the Permittee shall initiate enhanced monitoring at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as follows:
[40 CFR 63.1961(a)(5)]

(1) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.
[40 CFR 63.1961(a)(5)(i)]

(2) Monitor oxygen concentration as provided in Condition II.E.1.b(2);
[40 CFR 63.1961(a)(5)(ii)]

(3) Monitor temperature of the landfill gas at the wellhead as provided in Condition II.D.1.d.

[40 CFR 63.1961(a)(5)(iii)]

(4) Monitor temperature of the landfill gas every 10 vertical feet of the well as provided in Condition II.E.1.e.

[40 CFR 63.1961(a)(5)(iv)]

(5) Monitor the methane concentration with a methane meter using EPA Method 3C of appendix A-6 to 40 CFR part 60, EPA Method 18 of appendix A-6 to 40 CFR part 60, or a portable gas composition analyzer to monitor the methane levels provided that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.

[40 CFR 63.1961(a)(5)(v)]

(6) Monitor carbon monoxide concentrations, as follows:

[40 CFR 63.1961(a)(5)(vi)]

(a) Collect the sample from the wellhead sampling port in a passivated canister or multi-layer foil gas sampling bag (such as the Cali-5-Bond Bag) and analyze that sample using EPA Method 10 of appendix A-4 to 40 CFR part 60, or an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane; and

[40 CFR 63.1961(a)(5)(vi)(A)]

(b) Collect and analyze the sample from the wellhead using EPA Method 10 of appendix A-4 to 40 CFR part 60 to measure carbon monoxide concentrations.

[40 CFR 63.1961(a)(5)(vi)(B)]

(7) The enhanced monitoring in Condition II.E.1.d shall begin 7 days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit); and

[40 CFR 63.1961(a)(5)(vii)]

(8) The enhanced monitoring in this Condition II.E.1.d shall be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to monthly. However, if carbon monoxide readings exceed 100 ppmv again, the landfill shall return to weekly monitoring.

[40 CFR 63.1961(a)(5)(viii)]

(9) The enhanced monitoring in this Condition II.E.1.d can be stopped once a higher operating value is approved, at which time the monitoring provisions issued with the higher operating value should be followed, or once the measurement of landfill gas temperature at the wellhead is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit).

[40 CFR 63.1961(a)(5)(ix)]

e. For each wellhead with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer, or using temporary or permanent thermocouples installed in the well.

[40 CFR 63.1961(a)(6)]

2. The Permittee seeking to comply with Condition II.B.1.b using a non-enclosed flare shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:

[40 CFR 60.766(c); 40 CFR 63.1961(c)]

a. A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

[40 CFR 60.766(c)(1); 40 CFR 63.1961(c)(1)]

b. A device that records flow to the flare and bypass of the flare (if applicable). The Permittee shall:

[40 CFR 60.766(c)(2); 40 CFR 63.1961(c)(2)]

(1) Install, calibrate, and maintain a gas flow rate measuring device that records the flow to the control device at least every 15 minutes; and

(2) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

3. The Permittee seeking to demonstrate compliance with the 500-ppm surface methane operational standard in Condition II.C.4 shall monitor surface concentrations of methane according to the procedures in Condition II.D.3 and the instrument specifications in Condition II.D.4. If complying with the 500-ppm surface methane operational standard in Condition II.C.4, for location, the Permittee shall determine the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters and the coordinates shall be in decimal degrees with at least five decimal places. In the semi-annual report in Condition II.G.7, the Permittee shall report the location of each exceedance of the 500-ppm methane concentration as provided in Condition II.C.4 and the concentration recorded at each location for which an exceedance was recorded in the previous month. Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

[40 CFR 63.1961(f)]

4. The applicable monitoring requirements of Condition II.E.2 and apply at all times the MSW landfill source is operating, except for periods of monitoring system malfunctions, repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. The Permittee shall complete monitoring system repairs in response to monitoring system malfunctions and to return the monitoring system to operation as expeditiously as practicable. Where the Permittee seeks to demonstrate compliance with the temperature and nitrogen or oxygen operational standards in Condition II.C.3, II.C.4, and II.C.5, the standards apply at all times.
[40 CFR 60.766(h); 40 CFR 63.1961(h)]

F. Recordkeeping Requirements

1. Except as provided in Condition II.G.3.b, the Permittee of an MSW landfill subject to Conditions II.B.1.a and II.B.1.b shall keep for at least 5 years up-to-date, readily accessible, on-site records of the design capacity report that triggered Condition II.B.1, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.
[40 CFR 60.768(a); 40 CFR 63.1983(a)]

2. Except as provided in Condition II.G.3.b, the Permittee of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control system equipment of the data listed in Conditions II.F.2.a and b as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.
[40 CFR 60.768(b); 40 CFR 63.1983(b)]

a. Where the Permittee seeks to demonstrate compliance with Condition II.B.1.a:
[40 CFR 60.768(b)(1); 40 CFR 63.1983(b)(1)]

(1) The maximum expected gas generation flow rate as calculated in Condition II.D.1.a. The Permittee may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Administrator.
[40 CFR 60.768(b)(1)(i); 40 CFR 63.1983(b)(1)(i)]

(2) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in Condition II.B.2.a(1).
[40 CFR 60.768(b)(1)(ii); 40 CFR 63.1983(b)(1)(ii)]

b. Where the Permittee seeks to demonstrate compliance with Condition II.B.1.b through use of a non-enclosed flare, the flare type (*i.e.,* steam-

assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 CFR 60.18 and 40 CFR 63.11; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.

[40 CFR 60.768(b)(4); 40 CFR 63.1983(b)(4)]

3. Except as provided in Condition II.G.3.b, the Permittee shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in Condition II.E as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded.

[40 CFR 60.768(c); 40 CFR 63.1983(c)]

a. The Permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the control system and the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under Condition II.E.

[40 CFR 60.768(c)(2); 40 CFR 63.1983(c)(2)]

b. The Permittee by use of a non-enclosed flare shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under Condition II.E.2, and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.

[40 CFR 60.768(c)(4); 40 CFR 63.1983(c)(4)]

c. The Permittee of a landfill seeking to comply with Condition II.B.1 using an active collection system designed in accordance with Condition II.B.1.a shall keep records of periods when the collection system or control device is not operating.

[40 CFR 60.768(c)(5); 40 CFR 63.1983(c)(5)]

d. Where the Permittee seeks to demonstrate compliance with the operational standard in Condition II.C.5, the date, time, and duration of each startup and/or shutdown period, recording the periods when the affected source was subject to the standard applicable to startup and shutdown.

[40 CFR 63.1983(c)(6)]

e. Where the Permittee seeks to demonstrate compliance with the operational standard in Condition II.C.5, in the event that an affected unit fails to meet an applicable standard, record the information below in this paragraph:

[40 CFR 63.1983(c)(7)]

(1) For each failure record the date, time and duration of each failure and the cause of such events (including unknown cause, if applicable).

[40 CFR 63.1983(c)(7)(i)]

(2) For each failure to meet an applicable standard; record and retain a list of the affected sources or equipment.

[40 CFR 63.1983(c)(7)(ii)]

(3) Record actions taken to minimize emissions in accordance with the general duty of Condition II.C.7 and any corrective actions taken to return the affected unit to its normal or usual manner of operation.

[40 CFR 63.1983(c)(7)(iii)]

f. In lieu of the requirements specified in 40 CFR 63.8(d)(3), the Permittee shall keep the written procedures required by 40 CFR 63.8(d)(2) on record for the life of the landfill or until the landfill is no longer subject to the provisions of 40 CFR 63 Subpart AAAA, to be made available for inspection, upon request, by the Administrator. If the performance evaluation plan is revised, the Permittee shall keep previous (*i.e.,* superseded) versions of the performance evaluation plan on record to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan. The program of corrective action should be included in the plan required under 40 CFR 63.8(d)(2).

[40 CFR 63.1983(c)(8)]

4. Except as provided in Condition II.G.3.b, the Permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.

[40 CFR 60.768(d); 40 CFR 63.1983(d)]

a. The Permittee shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under Condition II.D.1.c.

[40 CFR 60.768(d)(1); 40 CFR 63.1983(d)(1)]

b. The Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in Condition II.B.2.a(3)(a) as well as any nonproductive areas excluded from collection as provided in Condition II.B.2.a(3)(b).

[40 CFR 60.768(d)(2); 40 CFR 63.1983(d)(2)]

5. Except as provided in Condition II.G.3.b, the Permittee shall keep for at least 5 years up-to-date, readily accessible records of the items in Conditions II.F.5.a through e.

[40 CFR 60.768(e); 40 CFR 63.1983(e)]

a. All collection and control system exceedances of the operational standards in Condition II.C, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

[40 CFR 63.1983(e)(1)]

b. The Permittee shall keep records of each wellhead temperature monitoring value of greater than 55 degrees Celsius (131 degrees Fahrenheit), each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent, except:

[40 CFR 63.1983(e)(2)]

(1) When the Permittee seeks to demonstrate compliance with the compliance provisions for wellhead temperature in Condition II.C.3, the records of each wellhead temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above instead of values greater than 55 degrees Celsius (131 degrees Fahrenheit).

[40 CFR 63.1983(e)(2)(i)]

(2) When required to conduct the enhanced monitoring provisions in Condition II.E.1.d, the Permittee shall also keep records of all enhanced monitoring activities.

[40 CFR 63.1983(e)(2)(ii)]

(3) When required to submit the *24-hour high temperature report in* Condition II.G.8, the Permittee shall also keep a record of the email transmission.

[40 CFR 63.1983(e)(2)(iii)]

c. For any root cause analysis for which corrective actions are required in Condition II.D.1.c(1)(a) or II.D.1.d(1)(a), keep a record of the root cause analysis conducted, including a description of the recommended corrective action(s) taken, and the date(s) the corrective action(s) were completed.

[40 CFR 63.1983(e)(3)]

d. For any root cause analysis for which corrective actions are required in Condition II.D.1.c(1)(b) or II.D.1.d(1)(b), keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

[40 CFR 63.1983(e)(4)]

e. For any root cause analysis for which corrective actions are required in Condition II.D.1.c(1)(c) or II.D.1.d(1)(c), keep a record of the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the Administrator.

[40 CFR 63.1983(e)(5)]

6. If the Permittee elects to convert design capacity from volume to mass or mass to volume to demonstrate that landfill design capacity is less than 2.5 million megagrams or 2.5 million cubic meters, as provided in the definition of "design capacity", the Permittee shall keep readily accessible, on-site records of the annual recalculation of site-specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

[40 CFR 60.768(f); 40 CFR 63.1983(f)]

7. Except as provided in Condition II.G.3.b, the Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system monitoring data for parameters measured in Condition II.E.1.a through e.

[40 CFR 60.768(h); 40 CFR 63.1983(g)]

8. Where the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, the Permittee shall keep the following records.

[40 CFR 63.1983(h)]

a. Records of the landfill gas temperature on a monthly basis as monitored in Condition II.D.1.d.

[40 CFR 63.1983(h)(1)]

b. Records of enhanced monitoring data at each well with a measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit) as gathered in Condition II.E.1.d and e.

[40 CFR 63.1983(h)(2)]

(1) Any records required to be maintained by this subpart that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.

[40 CFR 63.1983(h)(2)(i)]

9. Any records required to be maintained by this section that are submitted electronically via the EPA's CDX may be maintained in electronic format.

[40 CFR 60.768(i)]

G. Reporting Requirements

1. Amended Design Capacity Report

An amended design capacity report shall be submitted to the Administrator providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the maximum design capacity of the landfill to meet or exceed 2.5 million megagrams and 2.5 million cubic meters. This increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the density as documented in the annual recalculation required in Condition II.F.5.a.

[40 CFR 60.767(a)(1); 40 CFR 63.1981(b)]

2. NMOC Emission Rate Report

[40 CFR 60.767(b); 40 CFR 63.1981(c)]

The Permittee shall submit an NMOC emission rate report following the procedure specified in Condition II.G.10.b to the Administrator annually, except as provided for in Condition II.G.2.a(1). The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate.

a. The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in Condition II.B.3.b.

[40 CFR 60.767(b)(1); 40 CFR 63.1981(c)(1)]

(1) If the estimated NMOC emission rate as reported in the annual report to the Administrator is less than 34 megagrams per year in each of the next 5 consecutive years, the Permittee may elect to submit, following the procedure specified in Condition II.G.10.b, an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years for which an NMOC emission rate is estimated. All data and calculations upon which this estimate is based shall be provided to the Administrator. This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the Administrator. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

[40 CFR 60.767(b)(1)(ii); 40 CFR 63.1981(c)(1)(ii)(A)]

b. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions.

[40 CFR 60.767(b)(2); 40 CFR 63.1981(c)(2)]

c. The Permittee is exempted from the requirements to submit an NMOC emission rate report, after installing a collection and control system that complies with Condition II.B.1, during such time as the collection and control system is in operation and in compliance with Conditions II.C and II.D.

[40 CFR 60.767(b)(3); 40 CFR 63.1981(c)(3)]

3. Collection and Control System Design Plan

[40 CFR 60.767(c); 40 CFR 63.1981(d)]

The Permittee subject to Condition II.B.1 shall submit a collection and control system design plan to the Administrator for approval according to the schedule in

Condition II.G.3.d. The collection and control system design plan shall be prepared and approved by a professional engineer and shall meet the following requirements:

a. The collection and control system as described in the design plan shall meet the design requirements in Condition II.B.1.
[40 CFR 60.767(c)(1); 40 CFR 63.1981(d)(1)]

b. The collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of 40 CFR 60.763 through 60.768 and 40 CFR 63.1957 through 60.1983 proposed by the Permittee.
[40 CFR 60.767(c)(2); 40 CFR 63.1981(d)(2)]

c. The collection and control system design plan shall either conform with specifications for active collection systems in Condition II.B.2 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to in Condition II.B.2
[40 CFR 60.767(c)(3); 40 CFR 63.1981(d)(3)]

d. The Permittee of an MSW landfill having a design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters shall submit a collection and control system design plan to the Administrator for approval within 1 year of the first NMOC emission rate report in which the NMOC emission rate equals or exceeds 34 megagrams per year, except as follows:
[40 CFR 60.767(c)(4); 40 CFR 63.1981(d)(4)]

(1) If the Permittee elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in 40 CFR 60.764(a)(3) and the resulting rate is less than 34 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 34 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted, following the procedures in Condition II.G.10.b, within 180 days of the first calculated exceedance of 34 megagrams per year.
[40 CFR 60.767(c)(4)(i)]

(2) If the Permittee elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant k, as provided in Tier 3 in 40 CFR 40 CFR 60.764(a)(4), and the resulting NMOC emission rate is less than 34 Mg/yr, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant k shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report

based on the provisions of 40 CFR 60.764(a)(4) and the resulting site-specific methane generation rate constant k shall be submitted, following the procedure specified in Condition II.G.10.b, to the Administrator within 1 year of the first calculated emission rate equaling or exceeding 34 megagrams per year.

[40 CFR 60.767(c)(4)(ii)]

(3) If the Permittee elects to demonstrate that site-specific surface methane emissions are below 500 parts per million methane, based on the provisions of 40 CFR 60.764(a)(6), then the Permittee shall submit annually a Tier 4 surface emissions report as specified in this paragraph following the procedure specified in Condition II.G.10.b until a surface emissions readings of 500 parts per million methane or greater is found. If the Tier 4 surface emissions report shows no surface emissions readings of 500 parts per million methane or greater for four consecutive quarters at a closed landfill, then the Permittee may reduce Tier 4 monitoring from a quarterly to an annual frequency. The Administrator may request such additional information as may be necessary to verify the reported instantaneous surface emission readings. The Tier 4 surface emissions report shall clearly identify the location, date and time (to nearest second), average wind speeds including wind gusts, and reading (in parts per million) of any value 500 parts per million methane or greater, other than non-repeatable, momentary readings. For location, the Permittee shall determine the latitude and longitude coordinates using an instrument with an accuracy of at least 4 meters. The coordinates shall be in decimal degrees with at least five decimal places. The Tier 4 surface emission report shall also include the results of the most recent Tier 1 and Tier 2 results in order to verify that the landfill does not exceed 50 Mg/yr of NMOC.

[40 CFR 60.767(c)(4)(iii)]

(a) The initial Tier 4 surface emissions report shall be submitted annually, starting within 30 days of completing the fourth quarter of Tier 4 surface emissions monitoring that demonstrates that site-specific surface methane emissions are below 500 parts per million methane, and following the procedure specified in Condition II.G.10.b.

[40 CFR 60.767(c)(4)(iii)(A)]

(b) The Tier 4 surface emissions report shall be submitted within 1 year of the first measured surface exceedance of 500 parts per million methane, following the procedure specified in Condition II.G.10.b.

[40 CFR 60.767(c)(4)(iii)(B)]

e. The Permittee shall notify the Administrator that the design plan is completed and submit a copy of the plan's signature page. The Administrator has 90 days to decide whether the design plan should be

submitted for review. If the Administrator chooses to review the plan, the approval process continues as described in Condition II.G.3.f below. However, if the Administrator indicates that submission is not required or does not respond within 90 days, the Permittee can continue to implement the plan with the recognition that the Permittee is proceeding at their own risk. In the event that the design plan is required to be modified to obtain approval, the Permittee shall take any steps necessary to conform any prior actions to the approved design plan and any failure to do so could result in an enforcement action.

[40 CFR 60.767(c)(5); 40 CFR 63.1981(d)(5)]

f. Upon receipt of an initial or revised design plan, the Administrator shall review the information submitted under Conditions II.G.3.a through c and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, or horizontal trenches only, leachate collection components, and passive systems. If the Administrator does not approve or disapprove the design plan, or does not request that additional information be submitted within 90 days of receipt, then the Permittee may continue with implementation of the design plan, recognizing they would be proceeding at their own risk.

[40 CFR 60.767(c)(6); 40 CFR 63.1981(d)(6)]

4. Revised Design Plan

[40 CFR 60.767(d); 40 CFR 63.1981(e)]

The Permittee who has already been required to submit a design plan under Condition II.G.3 shall submit a revised design plan to the Administrator for approval as follows:

a. At least 90 days before expanding operations to an area not covered by the previously approved design plan.

[40 CFR 60.767(d)(1); 40 CFR 63.1981(e)(1)]

b. Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan that was submitted to the Administrator according to Condition II.G.3.

[40 CFR 60.767(d)(2); 40 CFR 63.1981(e)(2)]

5. Closure Report

[40 CFR 60.767(e); 40 CFR 63.1981(f)]

The Permittee of a controlled landfill shall submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR 258.60. If a closure report has been submitted to the Administrator, no additional wastes may

be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4) and 40 CFR 63.9.

6. Equipment Removal Report

[40 CFR 60.767(f); 40 CFR 63.1981(g)]

The Permittee of a controlled landfill shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment.

a. The equipment removal report shall contain all of the following items:
[40 CFR 60.767(f)(1); 40 CFR 63.1981(g)(1)]

(1) A copy of the closure report submitted in accordance with Condition II.G.5;
[40 CFR 60.767(f)(1)(i); 40 CFR 63.1981(g)(1)(i)]

(2) A copy of the initial performance test report demonstrating that the 15-year minimum control period has expired, unless the report of the results of the performance test has been submitted to the EPA via the EPA's CDX, or information that demonstrates that the GCCS will be unable to operate for 15 years due to declining gas flows. In the equipment removal report, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in lieu of the performance test report if the report has been previously submitted to the EPA's CDX; and
[40 CFR 60.767(f)(1)(ii); 40 CFR 63.1981(g)(1)(ii)]

(3) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 34 megagrams or greater of NMOC per year, unless the NMOC emission rate reports have been submitted to the EPA via the EPA's CDX. If the NMOC emission rate reports have been previously submitted to the EPA's CDX, a statement that the NMOC emission rate reports have been submitted electronically and the dates that the reports were submitted to the EPA's CDX may be submitted in the equipment removal report in lieu of the NMOC emission rate reports.
[40 CFR 60.767(f)(1)(iii); 40 CFR 63.1981(g)(1)(iii)]

b. The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in Condition II.B.3.a have been met.
[40 CFR 60.767(f)(2); 40 CFR 63.1981(g)(2)]

7. Semi-Annual Report

The Permittee seeking to comply with Condition II.B.1 using an active collection system designed in accordance with Condition II.B.1.a shall submit to the Administrator semi-annual reports. The Permittee shall submit the report, following the procedure specified in Condition II.G.10. The initial report shall be

submitted within 180 days of installation and startup of the collection and control system and shall include the initial performance test report required under 40 CFR 63.7, as applicable. In the initial report, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in lieu of the performance test report if the report has been previously submitted to the EPA's CDX. For enclosed combustion devices and flares, reportable exceedances are defined under Condition II.F.3. The semi-annual reports shall contain the information in Condition II.G.7.a through h.

[40 CFR 63.1981(h)]

a. Number of times that applicable parameters monitored under Condition II.C.2, 3, and 4 were exceeded and when the gas collection and control system was not operating under Condition II.C.5, including periods of SSM. For each instance, report the date, time, and duration of each exceedance.

[40 CFR 63.1981(h)(1)]

(1) Where the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, the Permittee shall provide a statement of the wellhead operational standard for temperature and oxygen the Permittee is complying with for the period covered by the report. Indicate the number of times each of those parameters monitored under Condition II.E.1.d were exceeded. For each instance, report the date, time, and duration of each exceedance.

[40 CFR 63.1981(h)(1)(ii)]

b. Description and duration of all periods when the gas stream was diverted from the control device through a bypass line or the indication of bypass flow as specified under Condition II.E.

[40 CFR 63.1981(h)(2)]

c. Description and duration of all periods when the control device was not operating and length of time the control device was not operating.

[40 CFR 63.1981(h)(3)]

d. All periods when the collection system was not operating.

[40 CFR 63.1981(h)(4)]

e. The location of each exceedance of the 500-ppm methane concentration as provided in Condition II.C.4 and the concentration recorded at each location for which an exceedance was recorded in the previous month. For location, record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates shall be in decimal degrees with at least five decimal places.

[40 CFR 63.1981(h)(5)]

f. The date of installation and the location of each well or collection system expansion added pursuant to Conditions II.D.1.c, II.D.1.d, II.D.2, and II.D.3.d.

[40 CFR 63.1981(h)(6)]

g. For any corrective action analysis for which corrective actions are required in Condition II.D.1.c(1) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

[40 CFR 63.1981(h)(7)]

h. If required to conduct enhanced monitoring in Conditions II.E.1.d and d, the Permittee shall include the results of all monitoring activities conducted during the period.

[40 CFR 63.1981(h)(8)]

(1) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.

[40 CFR 63.1981(h)(8)(i)]

(2) Include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.

[40 CFR 63.1981(h)(8)(ii)]

(3) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

[40 CFR 63.1981(h)(8)(iii)]

8. 24-Hour High Temperature Report

[40 CFR 63.1981(k)]

Where the Permittee seeks to demonstrate compliance with the operational standard for temperature in Condition II.C.3, and a landfill gas temperature measured at either the wellhead or at any point in the well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration measured is greater than or equal to 1,000 ppmv, then the Permittee shall report the date, time, well identifier, temperature and carbon monoxide reading via email to the Administrator within 24 hours of the measurement unless a higher operating temperature value has been approved by the Administrator for the well.

9. Corrective Action and Corresponding Timeline

[40 CFR 63.1981(j)]

The Permittee shall submit information regarding corrective actions according to the following requirements:

a. For corrective action that is required according to Conditions II.D.1.c or d and is not completed within 60 days after the initial exceedance, the Permittee shall submit a notification to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature exceedance.

[40 CFR 63.1981(j)(1)]

b. For corrective action that is required according to Conditions II.D.1.c or d and is expected to take longer than 120 days after the initial exceedance to complete, the Permittee shall submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator as soon as practicable but no later than 75 days after the first measurement of positive pressure or temperature monitoring value of 62.8 degrees Celsius (145 degrees Fahrenheit) or above. The Administrator shall approve the plan for corrective action and the corresponding timeline.

[40 CFR 63.1981(j)(2)]

10. Electronic Reporting

[40 CFR 60.767(i); 40 CFR 63.1981(l)(1)]

The Permittee shall submit reports electronically according to Conditions II.G.10.a and b below:

a. Within 60 days after the date of completing each performance test (as defined in 40 CFR 60.8), the Permittee shall submit the results of each performance test according to the following procedures:

[40 CFR 60.767(i)(1); 40 CFR 63.1981(l)(1)]

(1) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (*https://www3.epa.gov/ttn/chief/ert/ert_info.html*) at the time of the test, the Permittee shall submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (*https://cdx.epa.gov/*). Performance test data shall be submitted in a file format generated through the use of the EPA's ERT or an alternative file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site.

[40 CFR 60.767(i)(1)(i); 40 CFR 63.1981(l)(1)(i)]

(2) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, the Permittee shall submit the results of the performance test to the Administrator at the appropriate address listed in 40 CFR 60.4.

[40 CFR 60.767(i)(1)(ii); 40 CFR 63.1981(l)(1)(ii)]

(3) If the Permittee claims some of the information submitted is CBI, the Permittee shall submit a complete file, including information

claimed to be CBI, to the EPA. The file shall be generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted shall be submitted to the EPA via the EPA's CDX as described in Condition II.G.10.a(1).

[40 CFR 60.767(i)(1)(i); 40 CFR 63.1981(l)(1)(iii)]

b. The Permittee required to submit reports following the procedure specified in this paragraph shall submit reports to the EPA via the CEDRI. (CEDRI can be accessed through the EPA's CDX.) The Permittee shall use the appropriate electronic report in CEDRI for this subpart or an alternate electronic file format consistent with the XML schema listed on the CEDRI Web site (*https://www3.epa.gov/ttn/chief/cedri/index.html*). If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the Permittee submit the report to the Administrator at the appropriate address listed in 40 CFR 60.4 and 40 CFR 63.13. Once the form has been available in CEDRI for 90 calendar days, the Permittee shall begin submitting all subsequent reports via CEDRI. The reports shall be submitted by the deadlines specified in this subpart, regardless of the method in which the reports are submitted.

[40 CFR 60.767(i)(2); 40 CFR 63.1981(l)(2)]

11. Claims of EPA System Outage

[40 CFR 63.1981(m)]

If the Permittee is required to electronically submit a report through CEDRI in the EPA's CDX, the Permittee may assert a claim of EPA system outage for failure to comply timely with the reporting requirement. To assert a claim of EPA system outage, the Permittee shall meet the following requirements:

a. The Permittee shall have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.

[40 CFR 63.1981(m)(1)]

b. The outage shall have occurred within the period of time beginning 5 business days prior to the date that the submission is due.

[40 CFR 63.1981(m)(2)]

c. The outage may be planned or unplanned.

[40 CFR 63.1981(m)(3)]

d. The Permittee shall submit notification to the Administrator in writing as soon as possible following the date the Permittee first knew, or through

due diligence should have known, that the event may cause or has caused a delay in reporting.

[40 CFR 63.1981(m)(4)]

e. The Permittee shall provide to the Administrator a written description identifying:

[40 CFR 63.1981(m)(5)]

(1) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;

(2) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;

(3) Measures taken or to be taken to minimize the delay in reporting; and

(4) The date by which the Permittee propose to report, or if the Permittee has already met the reporting requirement at the time of the notification, the date the Permittee reported.

f. The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

[40 CFR 63.1981(m)(6)]

g. In any circumstance, the report shall be submitted electronically as soon as possible after the outage is resolved.

[40 CFR 63.1981(m)(7)]

12. Claims of Force Majeure

[40 CFR 63.1981(n)]

If the Permittee is required to electronically submit a report through CEDRI in the EPA's CDX, the Permittee may assert a claim of force majeure for failure to comply timely with the reporting requirement. To assert a claim of force majeure, the Permittee shall meet the following requirements:

a. The Permittee may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning 5 business days prior to the date the submission is due. For the purposes of this condition, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents the Permittee from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (*e.g.,* hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (*e.g.,* large scale power outage).

[40 CFR 63.1981(n)(1)]

b. The Permittee shall submit notification to the Administrator in writing as soon as possible following the date the Permittee first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.

[40 CFR 63.1981(n)(2)]

c. The Permittee shall provide to the Administrator:

[40 CFR 63.1981(n)(3)]

(1) A written description of the force majeure event;

(2) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;

(3) Measures taken or to be taken to minimize the delay in reporting; and

(4) The date by which the Permittee propose to report, or if the Permittee has already met the reporting requirement at the time of the notification, the date the Permittee reported.

d. The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.

[40 CFR 63.1981(n)(4)]

e. In any circumstance, the reporting shall occur as soon as possible after the force majeure event occurs.

[40 CFR 63.1981(n)(5)]

H. Permit Shield

Compliance with this Section shall be deemed compliance with the requirements of A.A.C. R18-2-731.C; 40 CFR 60.762, -763, -764, -765, -766, -767, -768, and -769; and 40 CFR 63.1955, -1957, -1958, -1959, -1960, -1961, -1981, and -1983.

[A.A.C. R18-2-325]

III. ASBESTOS

A. Applicability

Section III is only applicable if asbestos-containing waste materials, as defined in 40 CFR 61.141, are received at the landfill from a source covered by 40 CFR 61.149 (Asbestos Mills), 61.150 (Waste Disposal for Manufacturing, Fabricating, Demolition, Renovation, and Spraying Operations), or 61.155 (Operations That Convert Asbestos-Containing Waste Material into Non-Asbestos Material).

B. Emission Limitations

The Permittee shall meet the following requirements:

1. Either there shall be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or the requirements of Conditions IV.A.3 and 4 be met.

[40 CFR 61.154(a)]

2. Unless a natural barrier adequately deters access by the general public, either warning signs and fencing shall be installed and maintained as follows, or the requirements of Condition IV.A.3.a.

[40 CFR 61.154(b)]

a. Warning signs shall be displayed at all entrances and at intervals of 100 m (330 ft) or less along the property line of the site or along the perimeter of the sections of the site where asbestos-containing waste material is deposited. The warning signs shall:

[40 CFR 61.154(b)(1)]

(1) Be posted in such a manner and location that a person can easily read the legend; and

[40 CFR 61.154(b)(1)(i)]

(2) Conform to the requirements of 51cm x 36cm (20" x 14") upright format signs specified in 29 CFR 1910.145(d)(4) and this paragraph; and

[40 CFR 61.154(b)(1)(ii)]

(3) Display the following legend in the lower panel with letter sizes and styles of a visibility at least equal to those specified in this paragraph.

Legend	Notation
Asbestos Waste Disposal Site	2.5 cm (1 inch) Sans Serif, Gothic or Block.
Do Not Create Dust	1.9 cm (3/4 inch) San Serif, Gothic or Block.
Breathing Asbestos is Hazardous to Your Health	14 Point Gothic

Spacing between any two lines shall be at least equal to the height of the upper of the two lines.

b. The perimeter of the disposal site shall be fenced in a manner adequate to deter access by the general public.

[40 CFR 61.154(b)(2)]

c. Upon request and supply of appropriate information, the Director will determine whether a fence or a natural barrier adequately deters access by the general public.

[40 CFR 61.154(b)(3)]

3. Rather than meet the no visible emission requirements of Condition IV.B.1, at the end of each operating day, or at least once every 24-hour day period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall:

[40 CFR 61.154(c)]

a. Be covered with at least 15 cm (6 in) of compacted nonasbestos-containing material, or

[40 CFR 61.154(c)(1)]

b. Be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Director. For purposes of this paragraph, any used, spent, or other waste oil is not considered a dust suppression agent.

[40 CFR 61.154(c)(2)]

4. Rather than meet the no visible emission requirements of Condition IV.B.1, use an alternative emissions control method that has received prior written approval by the Director according to the procedures described in the 40 CFR 61.149(c)(2).

[40 CFR 61.154(d)]

C. Monitoring, Recordkeeping, and Reporting Requirements

1. For all asbestos-containing waste material received, the Permittee of the active waste disposal site shall:

[40 CFR 61.154(e)]

a. Maintain waste shipment records, using a form similar to the form described in 40 CFR 61.154 and Attachment D, and include the following information:

[40 CFR 61.154(e)(1)]

(1) The name, address, and telephone number of the waste generator.

[40 CFR 61.154(e)(1)(i)]

(2) The name, address, and telephone number of the transporter(s).

[40 CFR 61.154(e)(1)(ii)]

(3) The quantity of the asbestos-containing material in cubic meters (cubic yards).

[40 CFR 61.154(e)(1)(iii)]

(4) The presence of improperly enclosed or uncovered waste, or an asbestos-containing waste material not sealed in leak-tight containers. Report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste. Submit a copy of the waste shipment record along with the report.
[40 CFR 61.154(e)(1)(iv)]

(5) The date of receipt.
[40 CFR 61.154(e)(1)(v)]

b. As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
[40 CFR 61.154(e)(2)]

c. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with a waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for waste generator (identified in the waste shipment record), and, if different, the local, State, or EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Describe the discrepancy and attempts to reconcile it, and submit a copy of the waste shipment record along with the report.
[40 CFR 61.154(e)(3)]

d. Retain a copy of all records and reports required by this paragraph for at least 2 years.
[40 CFR 61.154(e)(4)]

2. Maintain, until closure, records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing material within the disposal site on a map or diagram of the disposal area.
[40 CFR 61.154(f)]

3. Upon closure, comply with all the provisions of 40 CFR 61.151.
[40 CFR 61.154(g)]

4. Submit to the Director, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
[40 CFR 61.154(h)]

5. Furnish upon request, and make available during normal business hours for inspection by the Director, all records required under this section.
[40 CFR 61.154(i)]

6. Notify the Director in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date shall be provided to the Director at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:

[40 CFR 61.154(j)]

a. Scheduled starting and completion dates.

[40 CFR 61.154(j)(1)]

b. Reason for disturbing the waste.

[40 CFR 61.154(j)(2)]

c. Procedures to be used to control emissions during the excavation, storage, transport, and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Director may require changes in the emission control procedures to be used.

[40 CFR 61.154(j)(3)]

d. Location of any temporary storage site and the final disposal site.

[40 CFR 61.154(j)(4)]

D. Permit Shield

Compliance with this Section shall be deemed compliance with the requirements of 40 CFR 61.154.

IV. INTERNAL COMBUSTION ENGINES

A. Applicability

Section IV is applicable to the diesel generators identified in Attachment "C".

B. Fuel Requirements

1. The Permittee shall use diesel fuel that meets the following requirements:

[40 CFR 60.4207(b)]

a. Sulfur content – maximum 15 ppm; and

[40 CFR 1090.305(b)]

b. A minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 1090.305(c)(1) and -(2)]

C. National Emission Standards for Hazardous Air Pollutants

The Permittee shall comply with National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR 63 Subpart ZZZZ by complying with New Source Performance Standards (NSPS) requirements.

[40 CFR 63.6590(c)]

D. New Source Performance Standards

1. Operational Requirements

a. The Permittee shall operate and maintain the stationary engine that achieve the emission standards as required in Condition IV.D.2 over the entire life of the engine.

[40 CFR 60.4206]

b. The Permittee shall operate and maintain the stationary engine and control device according to the manufacturer's emission-related written instructions.

[40 CFR 60.4211(a)(1)]

c. The Permittee shall change only those emission-related settings that are permitted by the manufacturer.

[40 CFR 60.4211(a)(2)]

d. The Permittee shall meet the requirements of 40 CFR part 1068, as they apply. This includes but is not limited to the following:

[40 CFR 60.4211(a)(3)]

(1) The Permittee shall not remove or render inoperative any device or element of design installed on or in engines in compliance with the regulations prior to its sale, and after such sale and delivery to the ultimate purchaser. This includes, for example, operating an engine without a supply of appropriate quality urea if the emission control system relies on urea to reduce NO_X emissions or the use of incorrect fuel or engine oil that renders the emission control system inoperative.

[40 CFR 1068.101(b)(1)]

(2) The Permittee shall not remove or alter an emission control information label or other required permanent label except as specified in 40 CFR 1068.101(b)(7).

[40 CFR 1068.101(b)(7)(i)]

2. Emission Standards

For 2007 or later model year and engine with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 1039.102, 1039.104, 1039.105, 1039.107, and 1039.115 and 40 CFR part 1039, appendix I, as applicable, for all pollutants, for the same model year and maximum engine power.

[40 CFR 60.4204(b) and 60.4201(a)]

3. Compliance Requirements

a. The Permittee shall comply with the emission standards specified in Condition V.D.2 and all of the following:

[40 CFR 60.4211(a)]

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer;

(3) Meet the requirements of 40 CFR parts 89, and/or 1068, as they apply; and

b. The Permittee shall comply by purchasing an engine certified to the emission standards in Condition IV.D.2, as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition IV.D.3.c.

[40 CFR 60.4211(c)]

c. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

[40 CFR 60.4211(g)]

(1) For engines greater than or equal to 100 HP and less than or equal to 500 HP, the Permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the Permittee shall conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after the Permittee changes the emission-related settings in a way that is not permitted by the manufacturer.

[40 CFR 60.4211(g)(2)]

4. Recordkeeping Requirements

a. If the Permittee operates an engine equipped with a diesel particulate filter to comply with the emission standards in Condition V.D.2, the diesel particulate filter shall be installed with a backpressure monitor that notifies

the Permittee when the high backpressure limit of the engine is approached.

[40 CFR 60.4209(b)]

b. If an engine is equipped with a diesel particulate filter, the Permittee shall keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.

[40 CFR 60.4214(c)]

5. Performance Test Requirements

a. If required to conduct performance test in Condition IV.D.3.c above, the performance test shall be conducted according to the in-use testing procedures in 40 CFR Part 1039 Subpart F for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

[40 CFR 60.4212(a)]

b. Exhaust emissions from stationary engines that are complying with the emission standards for new engines in 40 CFR 1039 shall not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d).

[40 CFR 60.4212(b)]

c. Exhaust emissions from stationary engines subject to Tier 2 or Tier 3 emission standards as described in 40 CFR part 1039, appendix I, or Tier 2 emission standards as described in 40 CFR part 1042, appendix I, shall not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation:

[40 CFR 60.4212(c)]

NTE Requirement for each pollutant = 1.25 * (STD)

Where:

STD = The standard specified for that pollutant in 40 CFR part 1039 or 1042, as applicable

6. Permit Shield

Compliance with this Section shall be deemed compliance with the requirements of 40 CFR 60.4201(a), -4204(b),-4206, -4211(a), -4207(b), -4209(b), -4211(a), -4211(c), -4211(g), -4212(a), -4212(b), -4212(c), and -4214(c); 40 CFR 63.6590(c); 1068.101(b)(1) and 1068.101(b)(7)(i); and 1090.305(b), 1090.305(c)(1), and 1090.305(c)(2).

[A.A.C. R18-2-325]

V. FUGITIVE DUST REQUIREMENTS

A. Applicability

Section V applies to any non-point source of fugitive dust in the facility.

B. Particulate Matter and Opacity

Open Areas, Roadways & Streets, Storage Piles, and Material Handling

1. Emission Limitations and Standards

a. Opacity of emissions from any fugitive dust non-point source shall not be greater than 40%.

[A.A.C. R18-2-614]

b. The Permittee shall employ the following reasonable precautions to prevent excessive amounts of particulate matter from becoming airborne:

(1) For a building or its appurtenances, or a building or subdivision site, or a driveway, or a parking area, or a vacant lot or sales lot, or an urban or suburban open area to be constructed, used, altered, repaired, demolished, cleared, or leveled, or the earth to be moved or excavated, keep dust and other types of air contaminants to a minimum by good modern practices such as using an approved dust suppressant or adhesive soil stabilizer, paving, covering, landscaping, continuous wetting, detouring, barring access, or other acceptable means;

[A.A.C. R18-2-604.A]

(2) Keep dust to a minimum from vacant lots or an urban or suburban open area where motor vehicular activity occurs by using an approved dust suppressant, or adhesive soil stabilizer, or by paving, or by barring access to the property, or by other acceptable means;

[A.A.C. R18-2-604.B]

(3) Keep dust and other particulates to a minimum by employing dust suppressants, temporary paving, detouring, wetting down or by other reasonable means when a roadway or alley is used, repaired, constructed, or reconstructed;

[A.A.C. R18-2-605.A]

(4) Take reasonable precautions, such as wetting, applying dust suppressants, or covering the load when transporting material likely to give rise to airborne dust. Earth or other material that is deposited by trucking or earth moving equipment shall be removed from paved streets by the person responsible for such deposits;

[A.A.C. R18-2-605.B]

(5) Take reasonable precautions, such as the use of spray bars, wetting agents, dust suppressants, covering the load, and hoods when crushing, screening, handling, transporting or conveying of materials or other operations likely to result in significant amounts of airborne dust;

[A.A.C. R18-2-606]

(6) Take reasonable precautions such as chemical stabilization, wetting, or covering when organic or inorganic dust producing material is being stacked, piled, or otherwise stored;

[A.A.C. R18-2-607.A]

(7) Operate stacking and reclaiming machinery utilized at storage piles at all times with a minimum fall of material, or with the use of spray bars and wetting agents;

[A.A.C. R18-2-607.B]

(8) Any other method as proposed by the Permittee and approved by the Director.

[A.A.C. R18-2-306.A.3.c]

2. Air Pollution Control Requirements

Unpaved Roads and Storage Piles

Water, or an equivalent control, shall be used to control visible emissions from haul roads and storage piles.

[A.A.C. R18-2-306.A.2 and -331.A.3.d]
[Material Permit Condition is indicated by underline and italics]

3. Monitoring and Recordkeeping Requirements

a. The Permittee shall maintain records of the dates on which any of the activities listed in Condition V.B.1.b above were performed and the control measures that were adopted.

[A.A.C. R18-2-306.A.3.c]

b. Opacity Monitoring Requirements

On a biweekly basis, the Permittee shall monitor visible emissions from fugitive sources in accordance with Condition I.A.

[A.A.C. R18-2-306.A.3.c]

C. Permit Shield

Compliance with Section II shall be deemed compliance with A.A.C. R18-2-604. -605, -606, -607, and -614.

[A.A.C. R18-2-325]

VI. OTHER PERIODIC ACTIVITIES

A. Abrasive Blasting

1. Particulate Matter and Opacity

a. Emission Limitations/Standards

The Permittee shall not cause or allow sandblasting or other abrasive blasting without minimizing dust emissions to the atmosphere through the use of good modern practices. Good modern practices include:

[A.A.C. R18-2-726]

(1) Wet blasting;

(2) Effective enclosures with necessary dust collecting equipment; or

(3) Any other method approved by the Director.

b. Opacity

The Permittee shall not cause, allow or permit visible emissions from sandblasting or other abrasive blasting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

2. Monitoring and Recordkeeping Requirement

Each time an abrasive blasting project is conducted, the Permittee shall make a record of the following:

[A.A.C. R18-2-306.A.3.c]

a. The date the project was conducted;

b. The duration of the project; and

c. Type of control measures employed.

3. Permit Shield

Compliance with Condition VI.A.1 shall be deemed compliance with A.A.C. R18-2-702.B.3 and -726.

[A.A.C. R18-2-325]

B. Use of Paints

1. Volatile Organic Compounds

a. Emission Limitations/Standards

While performing spray painting operations, the Permittee shall comply with the following requirements:

(1) The Permittee shall not conduct or cause to be conducted any spray painting operation without minimizing organic solvent emissions. Such operations, other than architectural coating and spot painting, shall be conducted in an enclosed area equipped with controls containing no less than 96 percent of the overspray.
[A.A.C. R18-2-727.A]

(2) The Permittee or their designated contractor shall not either:
[A.A.C. R18-2-727.B]

(a) Employ, apply, evaporate, or dry any architectural coating containing photochemically reactive solvents for industrial or commercial purposes; or

(b) Thin or dilute any architectural coating with a photochemically reactive solvent.

(3) For the purposes of Condition VI.A.1.a(2), a photochemically reactive solvent shall be any solvent with an aggregate of more than 20 percent of its total volume composed of the chemical compounds classified in Conditions (a) thru (c) below, or which exceeds any of the following percentage composition limitations, referred to the total volume of solvent:
[A.A.C. R18-2-727.C]

(a) A combination of the following types of compounds having an olefinic or cyclo-olefinic type of unsaturation-hydrocarbons, alcohols, aldehydes, esters, ethers, or ketones: 5 percent.

(b) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene: 8 percent.

(c) A combination of ethylbenzene, ketones having branched hydrocarbon structures, trichloroethylene or toluene: 20 percent.

(4) Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the groups of organic compounds described in Condition VI.B.1.a(3), it shall be considered to be a member of the group having the least allowable percent of the total volume of solvents.
[A.A.C. R18-2-727.D]

b. Monitoring and Recordkeeping Requirements
[A.A.C. R18-2-306.A.3.c]

(1) Each time a spray painting project is conducted, the Permittee shall make a record of the following:

(a) The date the project was conducted;

(b) The duration of the project;

(c) Type of control measures employed;

(d) Safety Data Sheets (SDS) for all paints and solvents used in the project; and

(e) The amount of paint consumed during the project.

(2) Architectural coating and spot painting projects shall be exempt from the recordkeeping requirements of Condition VI.B.1.b(1).

c. Permit Shield

Compliance with Condition VI.B.1.a shall be deemed compliance with A.A.C.R18-2-727.

[A.A.C. R18-2-325]

2. Opacity

a. Emission Limitation/Standard

The Permittee shall not cause, allow or permit visible emissions from painting operations in excess of 20% opacity.

[A.A.C. R18-2-702.B.3]

b. Permit Shield

Compliance with Condition VI.B.2.a shall be deemed compliance with A.A.C.R18-2-702.B.3.

[A.A.C. R18-2-325]

C. Demolition/Renovation - Hazardous Air Pollutants

1. Emission Limitation/Standard

The Permittee shall comply with all of the requirements of 40 CFR 61 Subpart M (National Emissions Standards for Hazardous Air Pollutants - Asbestos).

[A.A.C. R18-2-1101.A.12]

2. Monitoring and Recordkeeping Requirements

The Permittee shall keep all required records in a file. The required records shall include the "NESHAP Notification for Renovation and Demolition Activities" form and all supporting documents.

[A.A.C. R18-2-306.A.3.c]

3. Permit Shield

Compliance with Condition VI.C.1 shall be deemed compliance with A.A.C. R18-2-1101.A.12.

[A.A.C. R18-2-325]

ATTACHMENT "C": EQUIPMENT LIST

EQUIPMENT TYPE	MAX. CAPACITY	MAKE	MODEL	SERIAL NUMBER	INSTALLATION/ MFG. DATE	EQUIPMENT ID NUMBER	A.A.C. / NSPS / NESHAP
Candlestick Flare	19.5 MMBtu/hr	Callidus Technologies	N/A	N/A	1997	FL-1	A.A.C. R18-2-731/NSPS Subpart XXX, NESHAP Subpart AAAA
Generator (Non-Emergency)	175 hp	Caterpillar	XQ125	J9G00922	2021	IC-1	NSPS Subpart IIII
Generator (Non-Emergency)	134 hp	Caterpillar	XQ125	TBD	2019	IC-2	NSPS Subpart IIII

Appendix D

Remaining Capacity, Site Life, and Soil Balance Calculation

Appendix D - Remaining Capacity, Site Life, and Soil Balance Calculation
Mohave Valley Landfill

Assumptions and Inputs

Annual Airspace Consuption Rate 2024 = 151,713 [1]

Soil Use Ratio : 0.180 [2]

Existing Remaining Landfill Volume : 605,984 [3]

Proposed Remain Constructed Airspace : 21,042,400 cy

Annual Increase in Waste : 0.65% [4]

Topo Date : February 2024

Notes	Year	Capacity and Site Life Estimate			Site Soil Balance Estimate									
		Airspace Consumption Rate	New Airspace	Remaining	Soil Required for Operations, Cell Development, and Closure					Available onsite Soil Resources				Balance
		Annual Airspace Consumed (Cy/Yr)	Proposed Constructed Airspace (Cy)	Remaining Airspace[3] (Cy)	Soil Required For Cell Construction Protective Cover (Cy)	Soil Required For Daily / intermediate Cover (Cy)	Soil Required For Final Cover (Cy)	Landfill Infrastructure Road/Berm, Shrinkage, Loss, and Unexpected Soil Needs, Amortized (Cy)	Required Soil (Cy)	Soil Available From Stockpile (Cy)	Soil Available From Cell Excavation (Cy)	Soil Available Run-on Diversion Basin, Septage Ponds, and Onsite Sedimentation Pond (Cy)	Total Soil Generated Onsite (Cy)	Net Soil Balance (Cy)
Date of Topo	Feb-24	151,700	0	**605,984**	0	27,306	0	15,000	42,306	319,000	0	350,000	669,000	**626,694**
	2025	152,686	0	**453,298**	0	27,483	0	15,000	42,483	0	0	0	0	**584,211**
	2026	153,679	0	**299,619**	0	27,662	0	15,000	42,662	0	0	0	0	**541,548**
Assumed Year of Construction of 1st new Cell	2027	154,677	2,554,552	**2,699,494**	25,000	27,842	0	15,000	67,842	0	665,100	0	665,100	**1,138,806**
	2028	155,683	0	**2,543,811**	0	28,023	0	15,000	43,023	0	0	0	0	**1,095,784**
	2029	156,695	0	**2,387,116**	0	28,205	0	15,000	43,205	0	0	0	0	**1,052,578**
	2030	157,713	0	**2,229,403**	0	28,388	0	15,000	43,388	0	0	0	0	**1,009,190**
	2031	158,738	0	**2,070,665**	0	28,573	0	15,000	43,573	0	0	0	0	**965,617**
	2032	159,770	0	**1,910,895**	0	28,759	0	15,000	43,759	0	0	0	0	**921,859**
	2033	160,809	0	**1,750,086**	0	28,946	0	15,000	43,946	0	0	0	0	**877,913**
	2034	161,854	0	**1,588,232**	0	29,134	0	15,000	44,134	0	0	0	0	**833,779**
	2035	162,906	0	**1,425,326**	0	29,323	0	15,000	44,323	0	0	0	0	**789,456**
	2036	163,965	0	**1,261,361**	0	29,514	0	15,000	44,514	0	0	0	0	**744,942**
	2037	165,031	0	**1,096,330**	0	29,706	0	15,000	44,706	0	0	0	0	**700,237**
	2038	166,103	0	**930,227**	0	29,899	0	15,000	44,899	0	0	0	0	**655,338**
	2039	167,183	0	**763,044**	0	30,093	0	15,000	45,093	0	0	0	0	**610,245**
	2040	168,270	0	**594,774**	0	30,289	0	15,000	45,289	0	0	0	0	**564,957**
	2041	169,364	0	**425,411**	0	30,485	0	15,000	45,485	0	0	0	0	**519,471**
	2042	170,464	0	**254,946**	0	30,684	0	15,000	45,684	0	0	0	0	**473,788**
Assumed Year of Construction of 2nd new Cell	2043	171,572	2,554,552	**2,637,926**	25,000	30,883	0	15,000	70,883	0	665,100	0	665,100	**1,068,005**
	2044	172,688	0	**2,465,238**	0	31,084	0	15,000	46,084	0	0	0	0	**1,021,921**
	2045	173,810	0	**2,291,428**	0	31,286	0	15,000	46,286	0	0	0	0	**975,635**
	2046	174,940	0	**2,116,488**	0	31,489	0	15,000	46,489	0	0	0	0	**929,146**
	2047	176,077	0	**1,940,411**	0	31,694	0	15,000	46,694	0	0	0	0	**882,452**
	2048	177,221	0	**1,763,190**	0	31,900	0	15,000	46,900	0	0	0	0	**835,552**
	2049	178,373	0	**1,584,816**	0	32,107	0	15,000	47,107	0	0	0	0	**788,445**
	2050	179,533	0	**1,405,284**	0	32,316	0	15,000	47,316	0	0	0	0	**741,129**
	2051	180,700	0	**1,224,584**	0	32,526	0	15,000	47,526	0	0	0	0	**693,603**
	2052	181,874	0	**1,042,710**	0	32,737	0	15,000	47,737	0	0	0	0	**645,866**
	2053	183,057	0	**859,653**	0	32,950	0	15,000	47,950	0	0	0	0	**597,916**
	2054	184,246	0	**675,407**	0	33,164	0	15,000	48,164	0	0	0	0	**549,751**
	2055	185,444	0	**489,963**	0	33,380	0	15,000	48,380	0	0	0	0	**501,371**
	2056	186,649	0	**303,313**	0	33,597	0	15,000	48,597	0	0	0	0	**452,775**
Assumed Year of Construction of 3rd new Cell	2057	187,863	2,554,552	**2,670,003**	25,000	33,815	0	15,000	73,815	0	665,100	0	665,100	**1,044,059**
	2058	189,084	0	**2,480,919**	0	34,035	0	15,000	49,035	0	0	0	0	**995,024**
	2059	190,313	0	**2,290,606**	0	34,256	0	15,000	49,256	0	0	0	0	**945,768**
	2060	191,550	0	**2,099,057**	0	34,479	0	15,000	49,479	0	0	0	0	**896,289**
	2061	192,795	0	**1,906,262**	0	34,703	0	15,000	49,703	0	0	0	0	**846,586**
	2062	194,048	0	**1,712,214**	0	34,929	0	15,000	49,929	0	0	0	0	**796,657**
	2063	195,309	0	**1,516,904**	0	35,156	0	15,000	50,156	0	0	0	0	**746,502**
	2064	196,579	0	**1,320,326**	0	35,384	0	15,000	50,384	0	0	0	0	**696,117**
	2065	197,857	0	**1,122,469**	0	35,614	0	15,000	50,614	0	0	0	0	**645,503**
	2066	199,143	0	**923,326**	0	35,846	0	15,000	50,846	0	0	0	0	**594,658**
	2067	200,437	0	**722,889**	0	36,079	0	15,000	51,079	0	0	0	0	**543,579**
	2068	201,740	0	**521,149**	0	36,313	0	15,000	51,313	0	0	0	0	**492,266**
	2069	203,051	0	**318,098**	0	36,549	0	15,000	51,549	0	0	0	0	**440,716**
	2070	204,371	2,554,552	**2,668,279**	25,000	36,787	0	15,000	76,787	0	665,100	0	665,100	**1,029,030**
Assumed Year of Construction of 4th new Cell	2071	205,699	0	**2,462,579**	0	37,026	0	15,000	52,026	0	0	0	0	**977,004**
	2072	207,037	0	**2,255,543**	0	37,267	0	15,000	52,267	0	0	0	0	**924,737**
	2073	208,382	0	**2,047,161**	0	37,509	0	15,000	52,509	0	0	0	0	**872,228**
	2074	209,737	0	**1,837,424**	0	37,753	0	15,000	52,753	0	0	0	0	**819,476**
	2075	211,100	0	**1,626,324**	0	37,998	0	15,000	52,998	0	0	0	0	**766,478**
	2076	212,472	0	**1,413,852**	0	38,245	0	15,000	53,245	0	0	0	0	**713,233**

	2077	213,853	0	**1,199,998**	0	38,494	0	15,000	53,494	0	0	0	0	**659,739**
	2078	215,243	0	**984,755**	0	38,744	0	15,000	53,744	0	0	0	0	**605,995**
	2079	216,642	0	**768,113**	0	38,996	0	15,000	53,996	0	0	0	0	**552,000**
	2080	218,051	0	**550,062**	0	39,249	0	15,000	54,249	0	0	0	0	**497,751**
	2081	219,468	0	**330,594**	0	39,504	0	15,000	54,504	0	0	0	0	**443,246**
Assumed Year of Construction of 5th new Cell	2082	220,894	2,554,552	**2,664,252**	25,000	39,761	0	15,000	79,761	0	665,100	0	665,100	**1,028,585**
	2083	222,330	0	**2,441,922**	0	40,019	0	15,000	55,019	0	0	0	0	**973,566**
	2084	223,775	0	**2,218,146**	0	40,280	0	15,000	55,280	0	0	0	0	**918,286**
	2085	225,230	0	**1,992,916**	0	40,541	0	15,000	55,541	0	0	0	0	**862,745**
	2086	226,694	0	**1,766,222**	0	40,805	0	15,000	55,805	0	0	0	0	**806,940**
	2087	228,167	0	**1,538,055**	0	41,070	0	15,000	56,070	0	0	0	0	**750,870**
	2088	229,651	0	**1,308,404**	0	41,337	0	15,000	56,337	0	0	0	0	**694,533**
	2089	231,143	0	**1,077,261**	0	41,606	0	15,000	56,606	0	0	0	0	**637,927**
	2090	232,646	0	**844,615**	0	41,876	0	15,000	56,876	0	0	0	0	**581,051**
	2091	234,158	0	**610,457**	0	42,148	0	15,000	57,148	0	0	0	0	**523,902**
	2092	235,680	0	**374,778**	0	42,422	0	15,000	57,422	0	0	0	0	**466,480**
Assumed Year of Construction of 6th new Cell	2093	237,212	2,554,552	**2,692,118**	25,000	42,698	0	15,000	82,698	0	665,100	0	665,100	**1,048,882**
	2094	238,754	0	**2,453,364**	0	42,976	0	15,000	57,976	0	0	0	0	**990,906**
	2095	240,306	0	**2,213,058**	0	43,255	0	15,000	58,255	0	0	0	0	**932,651**
	2096	241,868	0	**1,971,191**	0	43,536	0	15,000	58,536	0	0	0	0	**874,115**
	2097	243,440	0	**1,727,751**	0	43,819	0	15,000	58,819	0	0	0	0	**815,296**
	2098	245,022	0	**1,482,729**	0	44,104	0	15,000	59,104	0	0	0	0	**756,192**
	2099	246,615	0	**1,236,114**	0	44,391	0	15,000	59,391	0	0	0	0	**696,801**
	2100	248,218	0	**987,897**	0	44,679	0	15,000	59,679	0	0	0	0	**637,122**
	2101	249,831	0	**738,065**	0	44,970	0	15,000	59,970	0	0	0	0	**577,152**
	2102	251,455	0	**486,610**	0	45,262	0	15,000	60,262	0	0	0	0	**516,891**
Assumed Year of Construction of 7th new Cell	2103	253,090	2,554,552	**2,788,073**	25,000	33,872	0	15,000	73,872	0	665,100	0	665,100	**1,108,118**
	2104	240,306	0	**2,547,767**	0	33,872	0	15,000	48,872	0	0	0	0	**1,059,246**
	2105	241,868	0	**2,305,900**	0	33,872	0	15,000	48,872	0	0	0	0	**1,010,374**
	2106	243,440	0	**2,062,460**	0	33,872	0	15,000	48,872	0	0	0	0	**961,502**
	2107	245,022	0	**1,817,438**	0	33,872	0	15,000	48,872	0	0	0	0	**912,629**
	2108	246,615	0	**1,570,823**	0	33,872	0	15,000	48,872	0	0	0	0	**863,757**
	2109	248,218	0	**1,322,605**	0	33,872	0	15,000	48,872	0	0	0	0	**814,885**
	2110	249,831	0	**1,072,774**	0	33,872	0	15,000	48,872	0	0	0	0	**766,013**
	2111	251,455	0	**821,319**	0	33,872	0	15,000	48,872	0	0	0	0	**717,141**
	2112	253,090	0	**568,230**	0	33,872	0	15,000	48,872	0	0	0	0	**668,268**
	2113	254,735	0	**313,495**	0	33,872	0	15,000	48,872	0	0	0	0	**619,396**
Assumed Year of Construction of 8th new Cell	2114	241,868	2,554,552	**2,626,179**	25,000	33,872	0	15,000	73,872	0	665,100	0	665,100	**1,210,624**
	2115	243,440	0	**2,382,740**	0	33,872	0	15,000	48,872	0	0	0	0	**1,161,752**
	2105	241,868	0	**2,140,872**	0	43,536	0	15,000	58,536	0	0	0	0	**1,103,216**
	2106	243,440	0	**1,897,432**	0	43,819	0	15,000	58,819	0	0	0	0	**1,044,396**
	2107	245,022	0	**1,652,410**	0	44,104	0	15,000	59,104	0	0	0	0	**985,292**
	2108	246,615	0	**1,405,796**	0	44,391	0	15,000	59,391	0	0	0	0	**925,902**
	2109	248,218	0	**1,157,578**	0	44,679	0	15,000	59,679	0	0	0	0	**866,223**
	2110	249,831	0	**907,747**	0	44,970	0	15,000	59,970	0	0	0	0	**806,253**
	2111	251,455	0	**656,292**	0	45,262	0	15,000	60,262	0	0	0	0	**745,991**
	2112	253,090	0	**403,202**	0	45,556	0	15,000	60,556	0	0	0	0	**685,435**
	2113	254,735	0	**148,468**	0	45,852	0	15,000	60,852	0	0	0	0	**624,583**
Filling Complete	2114	256,390	0	**-107,923**	0	46,150	0	15,000	61,150	0	0	0	0	**563,432**
Final Closure	2115	-	-	**-**	0	0	550,000	15,000	565,000	0	0	0	0	**-1,568**

Notes

(1) Annual airspace consumption rate as calculated via comparison between a February 2023 - February 2024 topography.

(2) Soil use ratio of 18% assumed as industry average for MSW Landfills.

(3) Volume is calculated as a comparison between the February 2024 topography and the remaining volume surface for the constructed Cell 1-12 area.

(4) Annual percentage increase in waste is taken from the the 2020 Census annual average population growth for Mohave County, AZ

Cy = Cubic Yards

Cell Construction dates shown are for demonstration purposes only, actual construction dates and number of cells may vary to suit operational needs.

Appendix E

Geotechnical Data and life Calculations

Appendix E-1

Seismic and Stability Analysis

Mohave Valley Landfill

Global Slope Stability Analysis

Division of Environmental Quality/Waste Disposal
Mohave County Development Services
3250 E Kino Ave
Kingman, AZ 86409
Phone: 928-757-0903

SCS ENGINEERS

Evan Guignon, P.E.
01216008.10 | November 2025

6161 South Syracuse Way, Suite 210
Greenwood Village, CO 80111

Table of Contents

Section		Page
1	Introduction/Executive Summary	1
2	Stability Analysis	2
	Landfill Geometrics and Scenarios	2
	Waste Footprint	2
	Critical Profile	2
	Material Properties	3
	Hydrostatic Conditions	4
	Seismic Hazard Loading	4
3	Slope Stability Analysis Results	5
	Static Stability Results	5
	Seismic Stability Results	5
4	Conclusions	6
5	References	6

Tables

Table 1: Static Slope Stability Results 5
Table 2: Seismic Slope Stability Results 5

Attachments

Attachment 1 Critical Profile Information
Attachment 2 Material Properties and Supporting Information
Attachment 3 Seismic Evaluation and Supporting Information
Attachment 4 Slide2® Slope Stability Modeling Results

1 INTRODUCTION

SCS Engineers has prepared a Solid Waste Facilities Plan (SWFP) on behalf of Mohave County, Arizona to revise the approved SWFP for higher fill grades, modifying the base grades for the site, adding a liner system and reducing the landfill waste footprint at the Mohave Valley Landfill (MVL). As part of this revision to the approved SWFP for MVL, SCS Engineers (SCS) has completed a slope stability analysis to evaluate the design modification to increase maximum fill height for the closure phase stability of the waste mass.

The purpose of this analysis was to determine the static and seismic stability of the increased height over the existing landfill area and the new liner system where the waste mass has been placed to the maximum allowable limit. The post closure phase was evaluated for the eventuality that the landfill will be filled up to the maximum permitted grades and that no additional waste would be placed beyond this point.

The stability analysis evaluated two profiles that were considered critical for closure phase of the landfill. The general rule employed in determining the critical stability profile set the profile alignment such that the slip surface considered the maximum driving force and the minimum resisting force. These stability analyses were performed using Slide2® version 9.036 from Rocscience Inc., a general limit equilibrium (GLE) computational two-dimensional model. The results of the stability analyses are presented herein.

Based on the modeling efforts presented in this report, SCS concludes that both proposed final closure waste mass scenarios each achieve suitable global laminar static factors of safety and seismic factors of safety that are well 1.5 and 1.0, respectively.

2 STABILITY ANALYSIS

LANDFILL GEOMETRICS AND SCENARIOS

SCS's study involved performing a global slope stability analysis through the subgrade soils and liner system for the waste mass for the closure scenario. The key proposed landfill dimensions are as follows:

Profile A-A'

- Maximum height of waste: 292 feet
- Final closure cover side slopes 3H to 1V
- Profile Stationing: Sta. 0+00 South to Sta. 8+00 North
- Access Road at ~ Mid slope
- Road width: 20 feet
- Back slope: 3H to 1V
- Fore slope: 3H to 1V

Profile B-B'

- Maximum height of waste: 234 feet
- Final closure cover side slopes 3H to 1V
- Profile Stationing: Sta. 0+00 East to Sta. 7+00 West

WASTE FOOTPRINT

The proposed final closure side slopes crests on the western side of the landfill at elevation of approximately 1322 ft. msl. and slopes at 5% to the maximum elevation on the eastern side of the landfill of approximately 1367 ft. msl. There are two access roads on the final cover side slopes. One road starts in the southeastern corner of the landfill and wraps around to the western side of the top deck. The other starts in the northwestern corner and wraps around to the eastern side of the top deck.

CRITICAL PROFILE

As noted above, the two alignments of the profiles that were used to evaluate global stability for the closure scenario are depicted on Drawing 1 of Attachment 1.

The critical profile for a global stability analysis considers the maximum driving and the minimum resisting forces/moments that can be potentially imparted on the waste mass, the corresponding containment envelope, and supporting toe of slope buttress.

- Profile A-A', considers the static and seismic stability of the waste placed on the base grades at the southeastern limit of waste with filling having occurred using 3H to 1V final slope grades all the way to the top of the new maximum height of waste. This profile was analyzed allowing the model to explore global slip surfaces through the waste mass, along the revised liner sequence at and near the toe of slope. This critical analysis is shown in Attachment 4.

- Profile B-B', considers the static and seismic stability of the waste placed on the base grades at the eastern limit of waste of Cell 12 with filling having occurred using 3H to 1V final slope grades all the way to the top of the new maximum height of waste. This area does not include a liner system. This profile was analyzed allowing the model to explore global slip surfaces through the waste mass, along the existing subgrade and near the toe of slope. This critical analysis is shown in Attachment 4.

MATERIAL PROPERTIES

The internal shear strengths of the waste mass, in-situ soils, structural fill soils and the interface shear strengths of the bottom liners are discussed in this section on material properties.

Material property model regions were drawn in the critical profile that reflected the geometric configuration of the landfill waste containment structures (underlying foundational soils, engineered subgrade fill, waste, and liner sequence configurations). Material properties for the foundation soils, municipal solid waste, and final cover were referenced from a previous geotechnical report completed by Vector Engineering, Inc. (Vector Engineering, Inc., 2010). These properties were used in both Slide2® slope stability analyses.

Direct shear testing was performed as part of the previous geotechnical report on a sample of native soil from MVL as part of a soil characterization study conducted in 1997. The test results showed the subgrade soil to have a cohesion (c) of 800 psf, an angle of internal friction (ϕ) of 41˚, and a unit weight of 118 pcf.

A bilinear Mohr-Coulomb envelope was created for municipal solid waste (MSW) using assumptions consistent with conventional engineering practice for compacted sanitary waste plus daily cover. The cohesion of MSW was set at 500 psf and the ϕ was set at 33˚. The unit weight of MSW was set at 75 pcf to represent the typical average gross wet unit weight of MSW.

The final configuration of the proposed expansion of MVL includes a cover system consisting of a combination of six (6) inch erosion control barrier and an eighteen (18) inch cover layer. The erosion control barrier material is a sandy gravel and the cover layer material is of the silty, gravelly sand found on site. Laboratory tests were not available on the cover materials so conservative estimates for the shear strengths and densities were used. The values used in this analysis were 0 psf for cohesion, 30˚ for ϕ and 115 pcf for unit weight of the material.

The two profiles pass through different landfill cells that have differing floor and side slope liner designs. These different liner systems are listed as follows (from bottom to top):

Cell 12 Liner System:

- Prepared and Compacted Subgrade

New Area Liner System:

- 24-inch-thick protective cover layer
- Geocomposite drainage layer
- 60-mil textured HDPE geomembrane
- Geosynthetic Clay Liner (GCL)

- Prepared subgrade layer

The interface shear strengths of the multiple liner interfaces were obtained either from Direct Shear lab testing during the corresponding cell construction events or from GRI's Direct Shear Database values (George R. Koerner & Dhani Narejo, 2005).

To be conservative, the interface strength values were reviewed, and the lowest strength values were used in the modeling as the critical interface. Additionally, 'Peak' (ultimate) shear strengths were used for the different cell's floor liner systems, while 'Residual' interface shear strengths were used for the different cell's side slope liner (Stark & Choi, 2004).

The lowest strength values that were used for these analyses are as follows:

New Area Peak (GCL/Textured Geomembrane):

- Adhesion – 167 psf
- ϕ - 23.0˚

New Area Residual (Internal GCL):

- Adhesion – 251 psf
- ϕ - 6.0˚

HYDROSTATIC CONDITIONS

Piezometric surfaces representing the anticipated worst-case conditions were added to the bottom liner. The site does not have hydrostatic conditions within 100' of the bottom of the waste elevation and therefore it has not been included in this model.

The entire floor surface of the cells was modeled in this analysis completely saturated (which includes the waste material and all soil and geosynthetic liner materials) and have the maximum leachate head of 12-inches (30 cm) of over the HDPE liner components per EPA Subtitle D requirements.

SEISMIC CONDITIONS

USGS Static Hazard Curves NSHM Conterminous U.S. 2018 shows that the site (Lat. 35.023^{o}, Long. -114.514) has a Peak bedrock Acceleration (PGA or K_p) of 0.109 for a Class BC event where the Probability of Exceedance is 2% over 50 years (Return Period of 2475 years). This seismic event was modeled on both profiles and is discussed in the section below.

3 SLOPE STABILITY ANALYSIS RESULTS

STATIC STABILITY RESULTS

The static global slope stability analyses were performed on both profile configurations discussed above. Slope profiles were modeled using three analytical methods including Bishop, Janbu Corrected and GLE/Morgenstern-Price, as well as for both deep and shallow seated circular and non-circular failure surfaces. After the critical circular and non-circular slip surfaces were identified, the shear surface was optimized to find the worst-case potential slip surface. The most critical FOS results of the static analyses are provided in Table 1 below.

Based on the static slope stability analyses, the minimum factor of safety for the existing landfill closure phase was 1.725 using the Bishop method. The minimum factor of safety for the future cell area closure phase was 1.702 using the Bishop method. Janbu Corrected and GLE/Morgenstern-Price were also utilized and resulted in very similar, but higher, results and factors of safety. The full data analysis output for the Static Condition can be found in Attachment 4.

Table 1 – Static Slope Stability Results

Scenario	Calculated FOS	Minimum FOS
Existing Landfill Closure Phase	1.725	1.5
Future Cell Area Closure Phase	1.702	1.5

SEISMIC STABILITY RESULTS

The minimum factor of safety for the existing landfill closure phase for the seismic analysis was the GLE/Morgenstern-Price method and was 1.454. The minimum factor of safety for the future cell area closure phase for the seismic analysis was the Janbu Corrected method and was 1.437. The full data analysis output for the Static Condition can be found in Attachment 4.

Table 2 – Seismic Slope Stability Results

Scenario	Calculated FOS	Minimum FOS
Existing Landfill Closure Phase - Seismic	1.454	1.0
Future Cell Area Closure Phase - Seismic	1.437	1.0

4 CONCLUSIONS

Based on the various slope stability analyses of the critical profiles for the proposed increase to final cover grades, SCS concludes the following:

- The FOSs shown in Table 1 confirms that minimum static FOS of 1.5 are surpassed for both of the phases in which analyses were performed. T herefore, it is concluded that both the subgrade slopes and the proposed final closure slopes and grades are suitable with regard to global static stability.

- The FOSs shown in Table 2 confirms that minimum seismic FOS of 1.0 are surpassed for both of the phases in which analyses were performed. T herefore, it is concluded that both the subgrade slopes and the proposed final closure slopes and grades are suitable with regard to global seismic stability.

- No permanent deformation of the landfill containment envelope is anticipated in the event of a 2% PE at 50 Yr (Return period of 2475 Yrs.) seismic event.

5 REFERENCES

George R. Koerner, P. P., & Dhani Narejo, P. (2005). *Direct Shear Database of Geosynthetic-to-Geosynthetic and Geosynthetic-to-Soil Interfaces.* Folsom: Geosynthetic Research Institute.

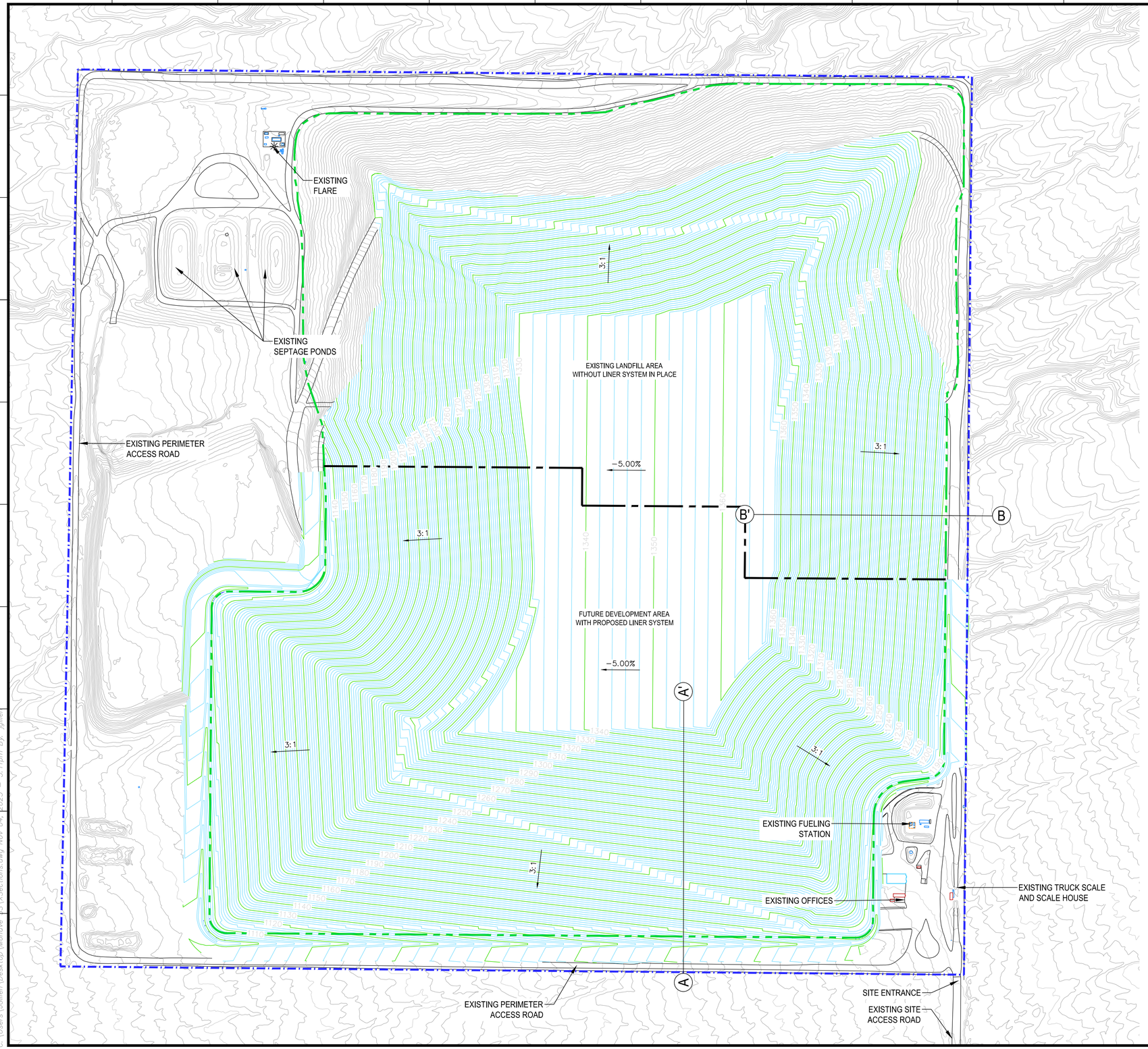
Makdisi, F. I., & Seed, H. B. (1978). Simplified Procedure for Estimating Dam and Embankment Earthquake-Induced Deformations. *Journal of the Geotechnical Engineering Division*, 849-867.

Stark, T. D., & Choi, H. (2004). Peak versus residual interface strengths for landfill liner and cover design. *Geosynthetics International*, 491-498.

Vector Engineering, Inc. (2010). *Seismic and Stability Analysis for the Mohave Valley Landfill.* Mohave Valley.

Attachment 1

Critical Profile Information



N

150 0 75 150 300 450

SCALE: 1"=150'

LEGEND

- 1100 — EXISTING TOPOGRAPHY, 2-FT INTERVAL
- 1330 — PROPOSED 10-FT CONTOUR
- PROPOSED 2-FT CONTOUR
- APPROXIMATE LANDFILL PROPERTY BOUNDARY
- APPROXIMATE PERMITTED LIMITS OF WASTE
- BOUNDARY BETWEEN AREA OF EXISTING LANDFILL AND AREA OF FUTURE DEVELOPMENT

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

FOR INFORMATIONAL PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: PROPOSED TOP OF WASTE - CROSS SECTION LOCATIONS

PROJECT TITLE: LANDFILL PERMIT AMENDMENT MOHAVE VALLEY LANDFILL FORT MOHAVE, ARIZONA

CLIENT: MOHAVE VALLEY LANDFILL
3999 EL RODEO ROAD
FORT MOHAVE, AZ 86426

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

PROJ. NO. 01216008.10 T1 | DSN. BY: AAS/MPB | DWN. BY: ILG | CHK. BY: ETG | ACAD FILE: Z:\ENGINEERS | APP. BY: MPB

DATE: 11/04/2025

SCALE: AS SHOWN

FIGURE: 1

C:\Users\JGillen\Desktop\Mohave\S1\XSections.dwg Nov 04, 2025 - 3:11pm By: jgillen

Attachment 2

Material Properties and Supporting Information

Appendix Table 1. Summary of interface shear strengths.

Interface 1*	Interface 2*	Peak Strength					Residual Strength				
		Fig. No.	δ (deg)	Ca (kPa)	Points	R^2	Fig. No.	δ (deg)	Ca (kPa)	Points	R^2
HDPE-S	Granular Soil	1a	21	0	162	0.93	1b	17	0	128	0.92
HDPE-S	Cohesive Soil										
	Saturated	1c	11	7	79	0.94	1d	11	0	59	0.95
	Unsaturated	1c	22	0	44	0.93	1d	18	0	32	0.93
HDPE-S	NW-NP GT	1e	11	0	149	0.93	1f	9	0	82	0.96
HDPE-S	Geonet	1g	11	0	196	0.90	1h	9	0	118	0.93
HDPE-S	Geocomposite	1i	15	0	36	0.97	1j	12	0	30	0.93
HDPE-T	Granular Soil	2a	34	0	251	0.98	2b	31	0	239	0.96
HDPE-T	Cohesive Soil										
	Saturated	2c	18	10	167	0.93	2d	16	0	150	0.90
	Unsaturated	2c	19	23	62	0.91	2d	22	0	35	0.93
HDPE-T	NW-NP GT	2e	25	8	254	0.96	2f	17	0	217	0.95
HDPE-T	Geonet	2g	13	0	31	0.99	2h	10	0	27	0.99
HDPE-T	Geocomposite	2i	26	0	168	0.95	2j	15	0	164	0.94
LLDPE-S	Granular Soil	3a	27	0	6	1.00	3b	24	0	9	1.00
LLDPE-S	Cohesive Soil	3c	11	12.4	12	0.94	3d	12	3.7	9	0.93
LLDPE-S	NW-NP GT	3e	10	0	23	0.63	3f	9	0	23	0.49
LLDPE-S	Geonet	3g	11	0	9	0.99	3h	10	0	9	1.00
LLDPE-T	Granular Soil	4a	26	7.7	12	0.95	4b	25	5.2	12	0.95
LLDPE-T	Cohesive Soil	4c	21	5.8	12	1.00	4d	13	7.0	9	0.98
LLDPE-T	NW-NP GT	4e	26	8.1	9	1.00	4f	17	9.5	9	0.96
LLDPE-T	Geonet	4g	15	3.6	6	0.97	4h	11	0	6	0.98
PVC-S	Granular Soil	5a	26	0.4	6	0.99	5b	19	0	6	0.99
PVC-S	Cohesive Soil	5c	22	0.9	11	0.88	5d	15	0	9	0.95
PVC-S	NW-NP GT	5e	20	0	89	0.91	5f	16	0	83	0.74
PVC-S	NW-HB GT	5g	18	0	3	1.00	5h	12	0.1	3	1.00
PVC-S	Woven GT	5i	17	0	6	0.54	5j	7	0	6	0.93
PVC-S	Geonet	5k	18	0.1	3	1.00	5l	16	0.6	3	1.00

Appendix Table 1. (continued)

Interface 1*	Interface 2*	Peak Strength					Residual Strength				
		Fig. No.	δ (deg)	Ca (kPa)	Points	R^2	Fig. No.	δ (deg)	Ca (kPa)	Points	R^2
PVC-F	NW-NP GT	6a	27	0.2	26	0.95	6b	23	0	26	0.95
PVC-F	NW-HB GT	6c	30	0	8	0.97	6d	27	0	8	0.90
PVC-F	Woven GT	6e	15	0	6	0.78	6f	10	0	6	0.76
PVC-F	Geonet	6g	25	0	11	1.00	6h	19	0	11	0.99
PVC-F	Geocomposite	6i	27	1.1	5	1.00	6j	22	4.7	6	1.00
CSPE-R	Granular Soil	7a	36	0	3	1.00	7b	16	0	3	1.00
CSPE-R	Cohesive Soil	7c	31	5.7	6	0.71	7d	18	0	6	0.99
CSPE-R	NW-NP GT	7e	14	0	6	0.97	7f	10	0	6	0.98
CSPE-R	NW-HB GT	7g	21	0	3	1.00	7h	10	0	3	1.00
CSPE-R	Woven GT	7i	11	0	6	0.92	7j	11	0	3	1.00
CSPE-R	Geonet	7k	28	0	9	0.87	7l	16	0	9	0.80
NW-NP GT	Granular Soil	8a	33	0	290	0.97	8b	33	0	117	0.96
NW-HB GT	Granular Soil	8c	28	0	6	0.99	8d	16	0	6	0.91
Woven GT	Granular Soil	8e	32	0	81	0.99	8f	29	0	28	0.98
NW-NP GT	Cohesive Soil	9a	30	5	79	0.96	9b	21	0	28	0.79
NW-HB GT	Cohesive Soil	9c	29	0.9	15	0.71	9d	10	0	15	0.83
Woven GT	Cohesive Soil	9e	29	0	34	0.94	9f	19	0	16	0.86
GCL Reinforced (internal)	N/A	10a	16	38	406	0.85	10b	6	12	182	0.91
GCL (NW-NP GT)	HDPE-T	11a	23	8	180	0.95	11b	13	0	157	0.90
GCL (W-SF GT)	HDPE-T	11c	18	11	196	0.96	11d	12	0	153	0.92
Geonet	NW-NP GT	12a	23	0	52	0.97	12b	16	0	32	0.97
Geocomposite (NW-NP GT)	Granular Soil	13a	27	14	14	0.86	13b	21	8	10	0.92

Project ...e: Mohave Valley Sanitary Landfill - A-A' (Left) Circular Search

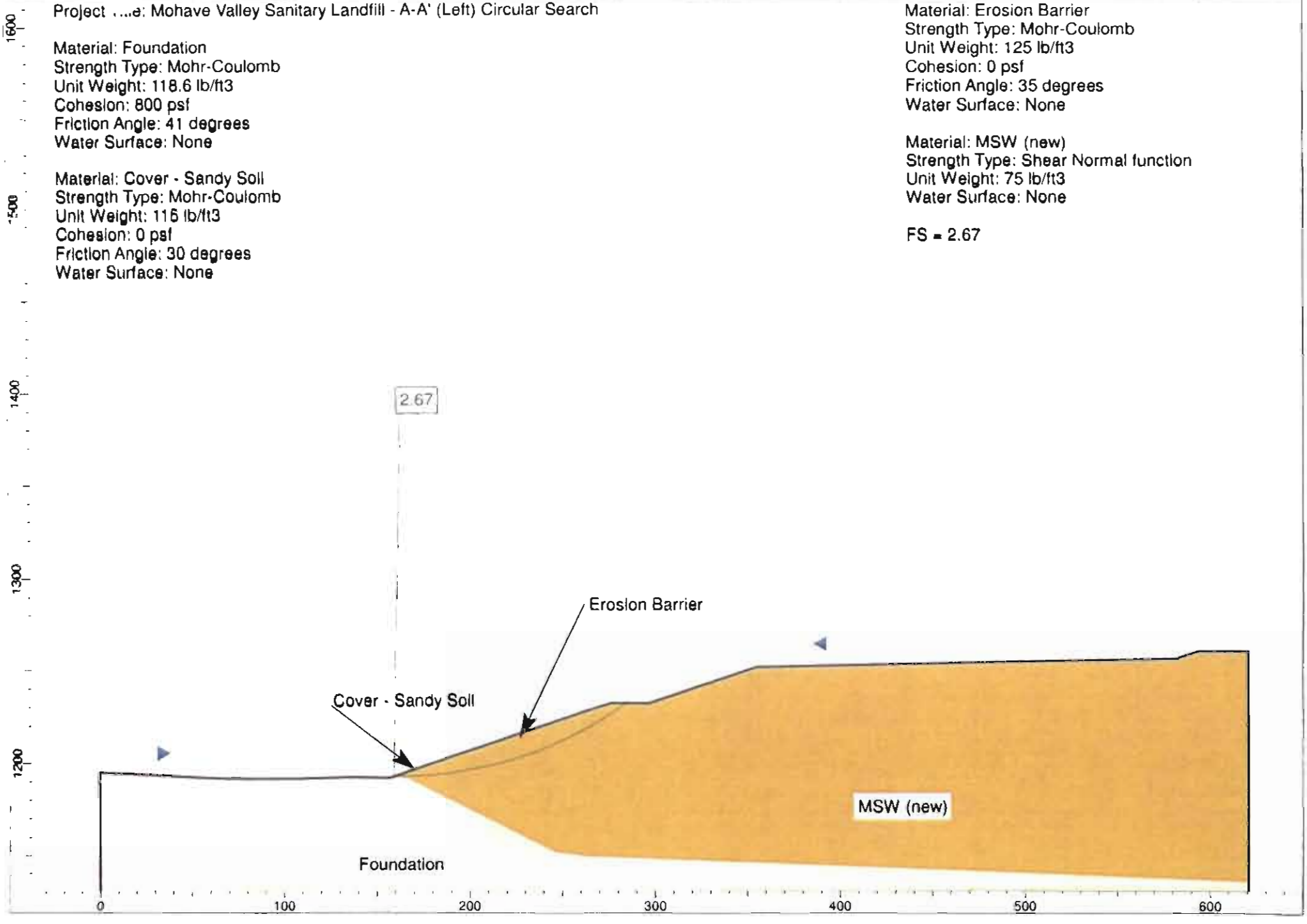
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

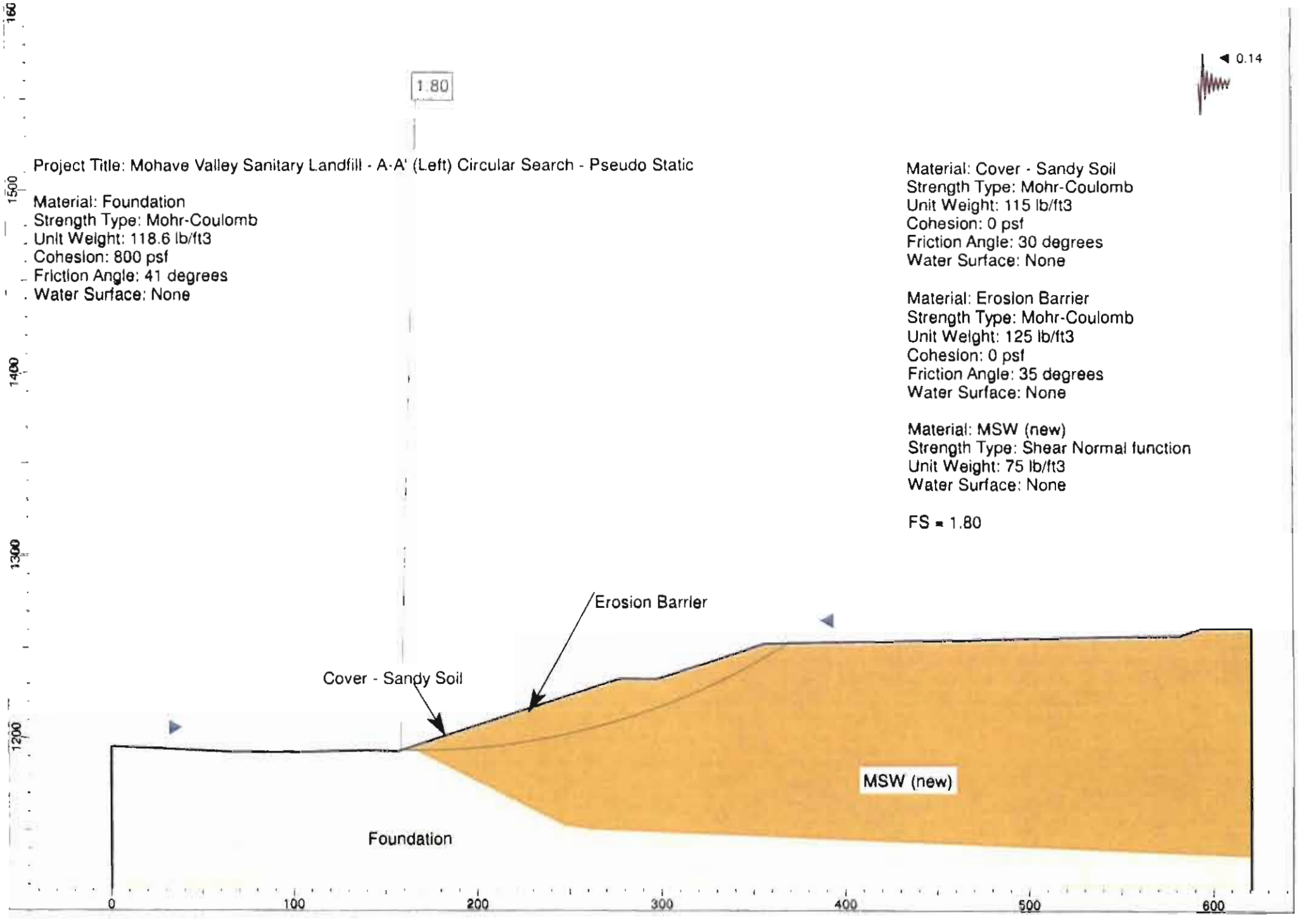
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

FS = 2.67




1.80
0.14
Project Title: Mohave Valley Sanitary Landfill - A-A' (Left) Circular Search - Pseudo Static
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None
Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None
Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None
FS = 1.80
Erosion Barrier
Cover - Sandy Soil
MSW (new)
Foundation
1600
1500
1400
1300
1200
0
100
200
300
400
500
600

Project ... Mohave Valley Landfill - Section A-A' (Right) Circular Search

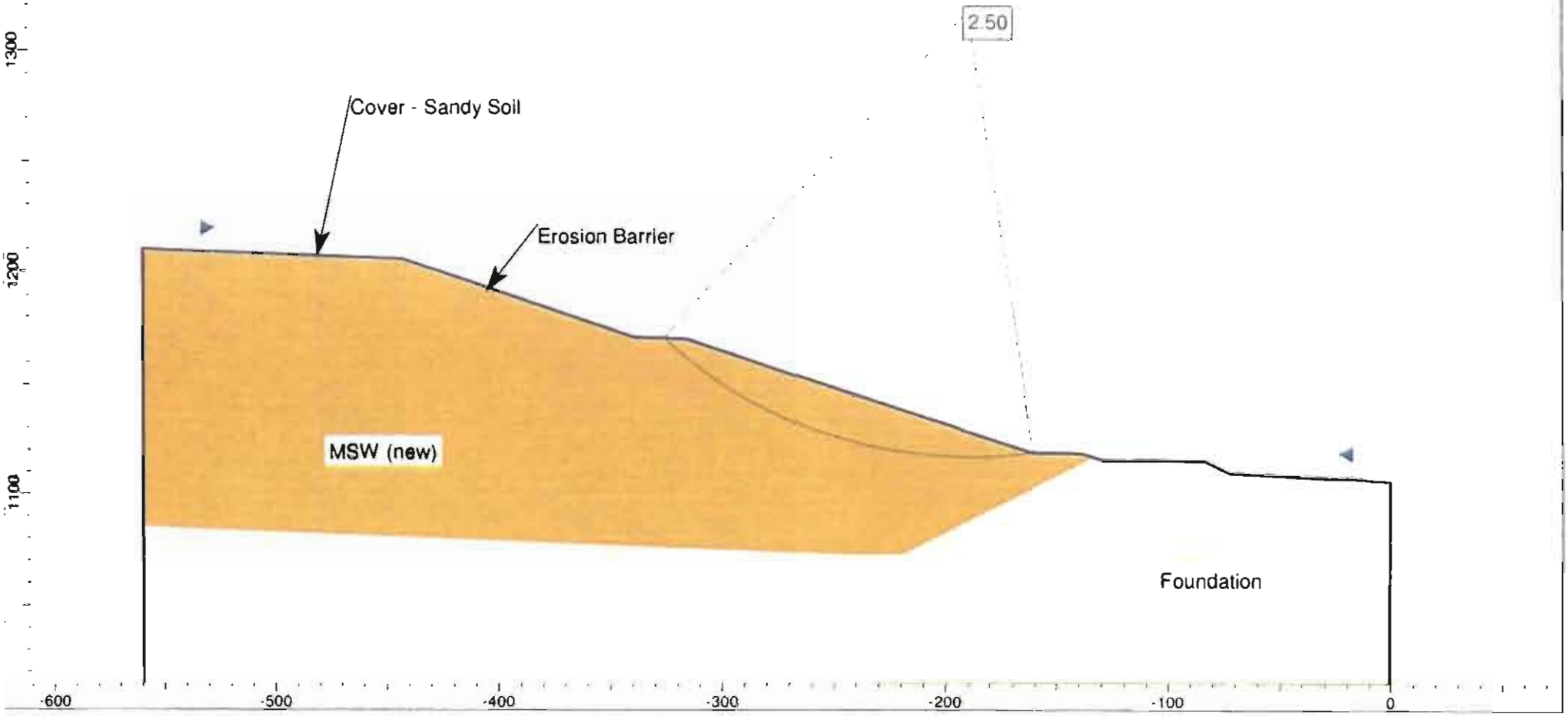
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

FS = 2.50



Project : Mohave Valley Landfill - Section A-A' (Right) Circular Search - Ps Static

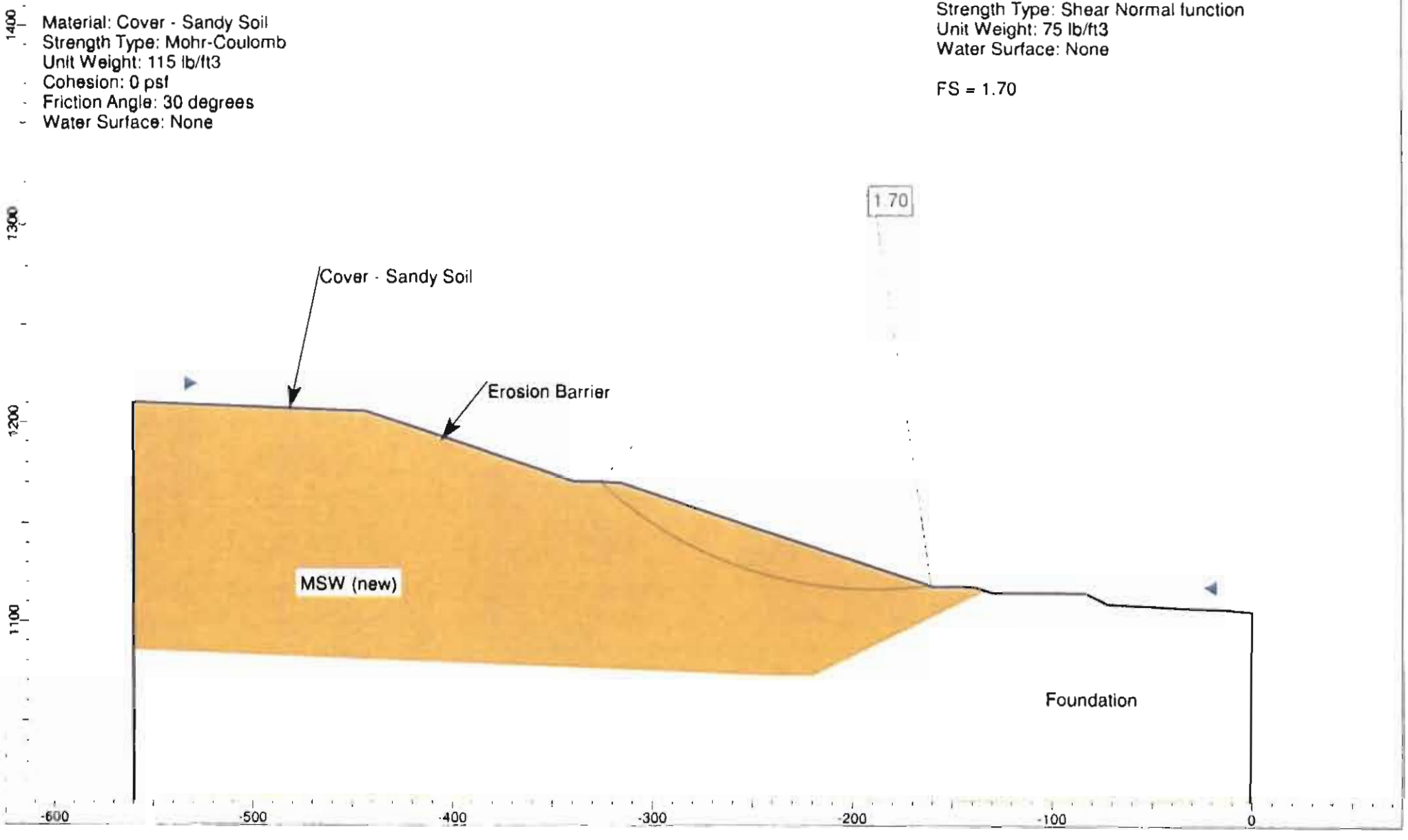
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

FS = 1.70



Project : Mohave Valley Landfill - B-B' (Right) - Circular Search

Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

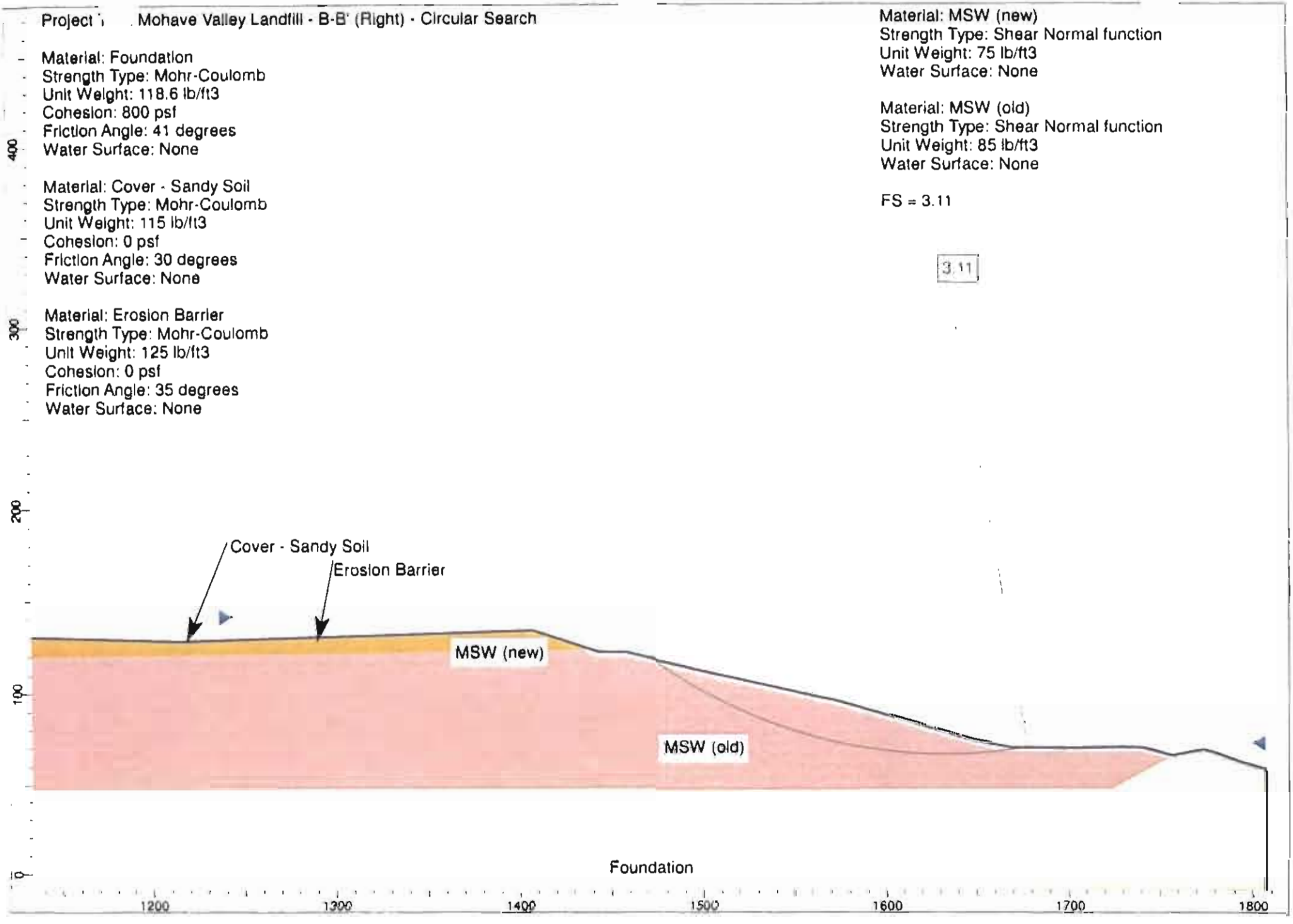
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

Material: MSW (old)
Strength Type: Shear Normal function
Unit Weight: 85 lb/ft3
Water Surface: None

FS = 3.11



Project Title: Mohave Valley Landfill - B-B' - Circular Search - Pseudo St

Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

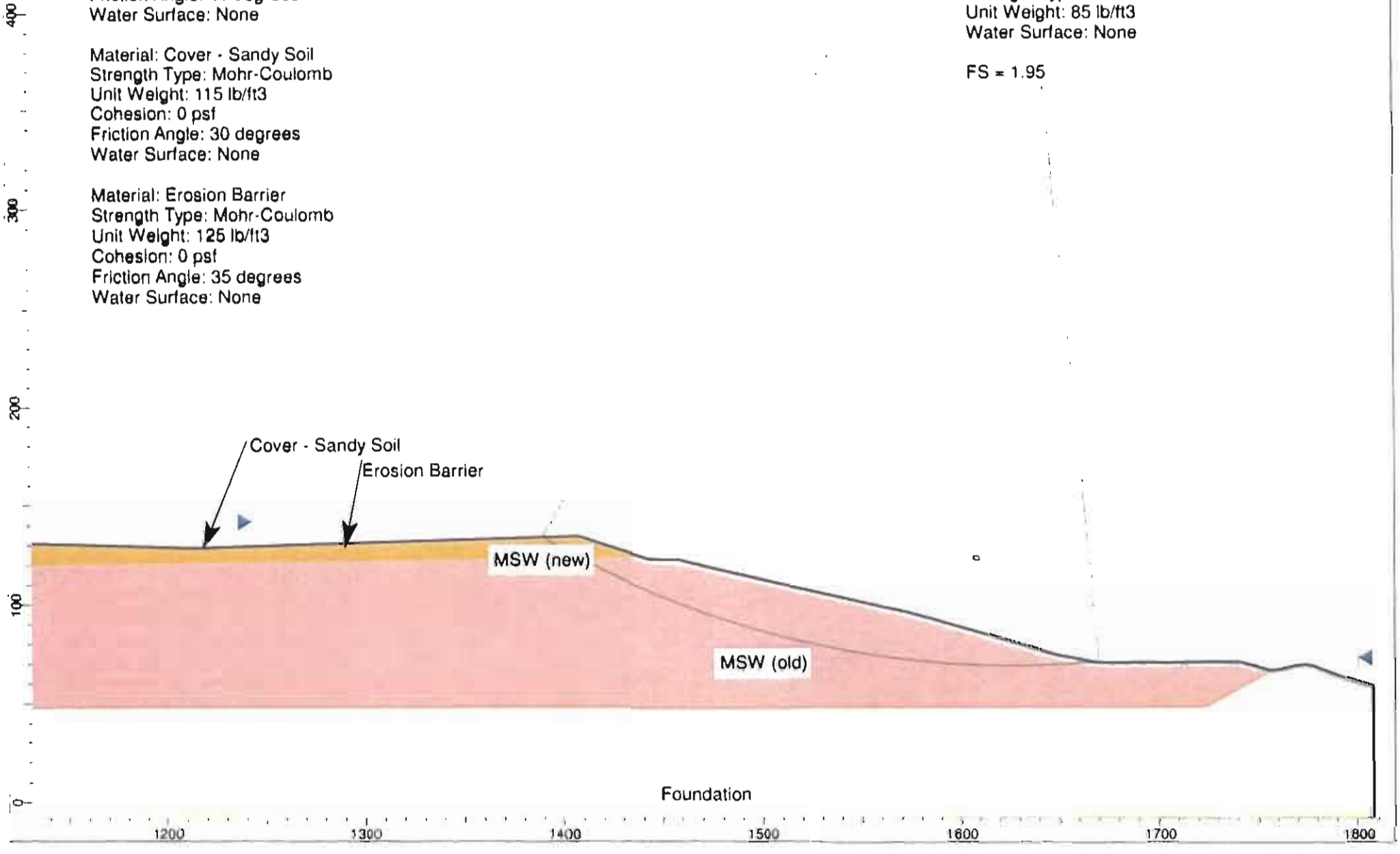
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

Material: MSW (old)
Strength Type: Shear Normal function
Unit Weight: 85 lb/ft3
Water Surface: None

FS = 1.95



Project Title: Mohave Valley Landfill - B-B' (Left) - Circular Search

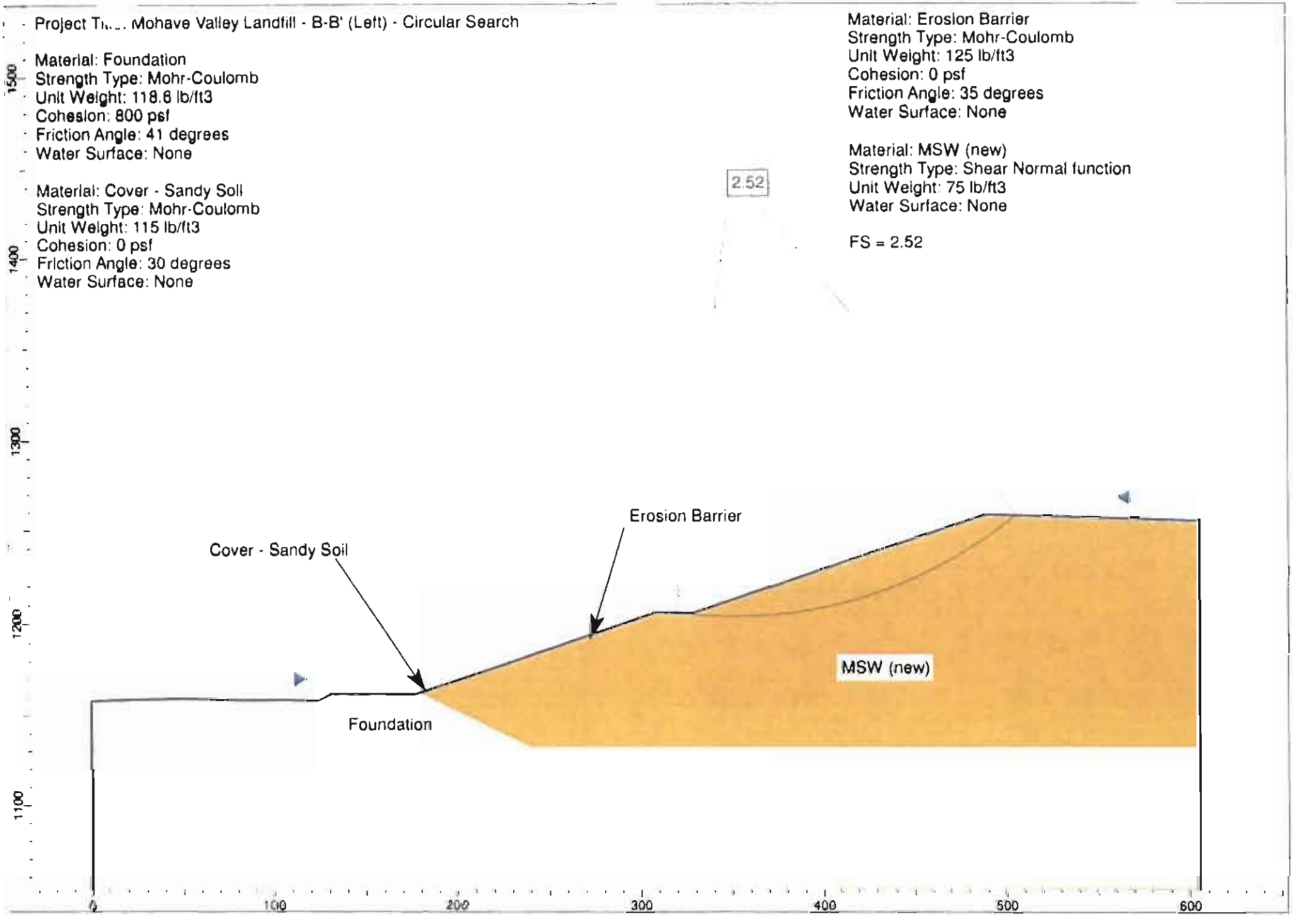
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None

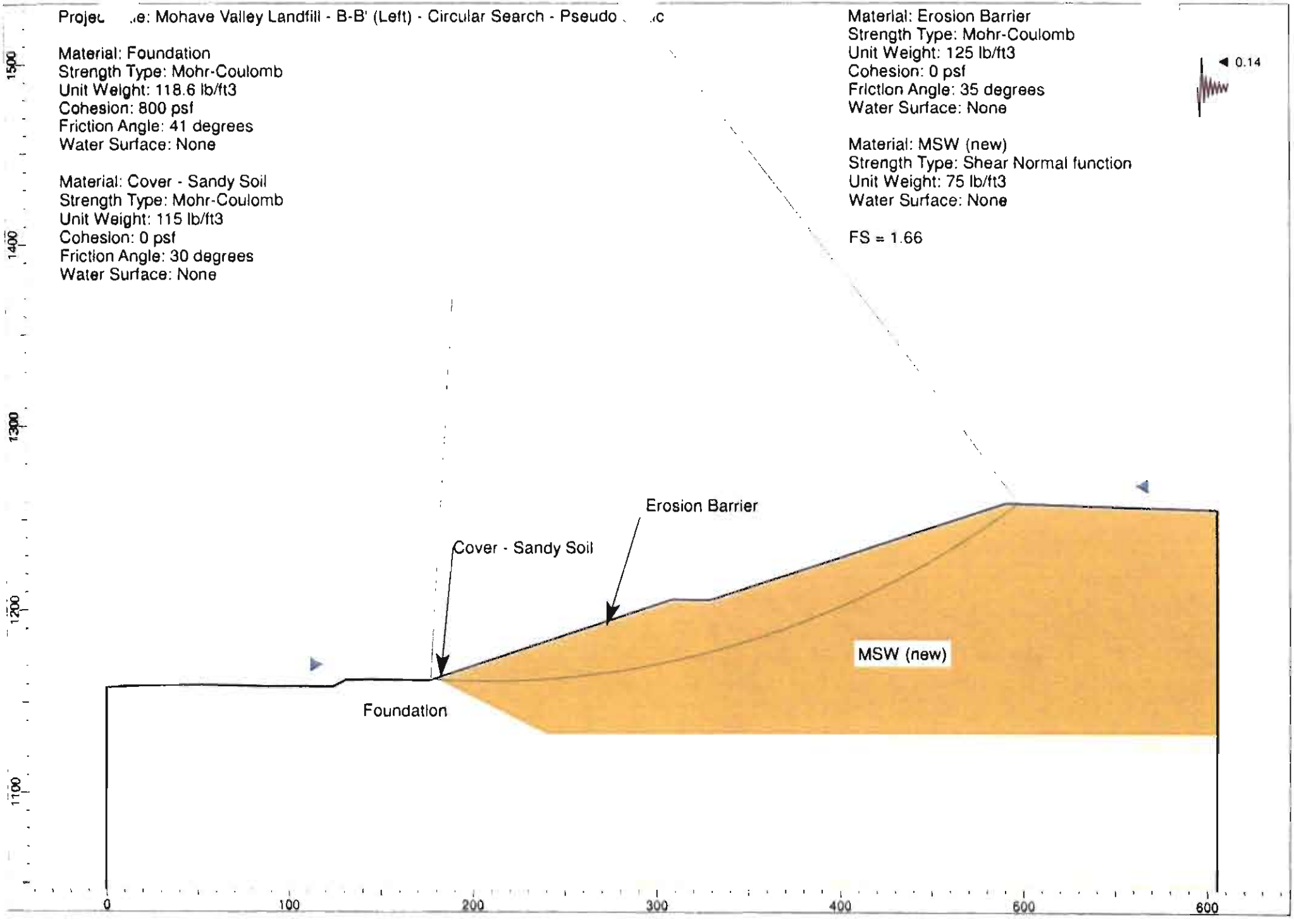
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None

Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None

Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None

FS = 2.52




Project: Mohave Valley Landfill - B-B' (Left) - Circular Search - Pseudo Static
Material: Foundation
Strength Type: Mohr-Coulomb
Unit Weight: 118.6 lb/ft3
Cohesion: 800 psf
Friction Angle: 41 degrees
Water Surface: None
Material: Cover - Sandy Soil
Strength Type: Mohr-Coulomb
Unit Weight: 115 lb/ft3
Cohesion: 0 psf
Friction Angle: 30 degrees
Water Surface: None
Material: Erosion Barrier
Strength Type: Mohr-Coulomb
Unit Weight: 125 lb/ft3
Cohesion: 0 psf
Friction Angle: 35 degrees
Water Surface: None
Material: MSW (new)
Strength Type: Shear Normal function
Unit Weight: 75 lb/ft3
Water Surface: None
FS = 1.66
0.14
Erosion Barrier
Cover - Sandy Soil
MSW (new)
Foundation
1500
1400
1300
1200
1100
0
100
200
300
400
500
600

APPENDIX E-2
Soil Testing Results

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event / Invoice No. 27460504 Lab No. 1
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type / Use of Material NATIVE
Sample Source / Location COMPOSITE
Reference:

Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch. / Engr. VECTOR ENGINEERING
Supplier / Source NATIVE
Source / Location Desig. By C.ANDEREGG/WTI Date 10/14/96

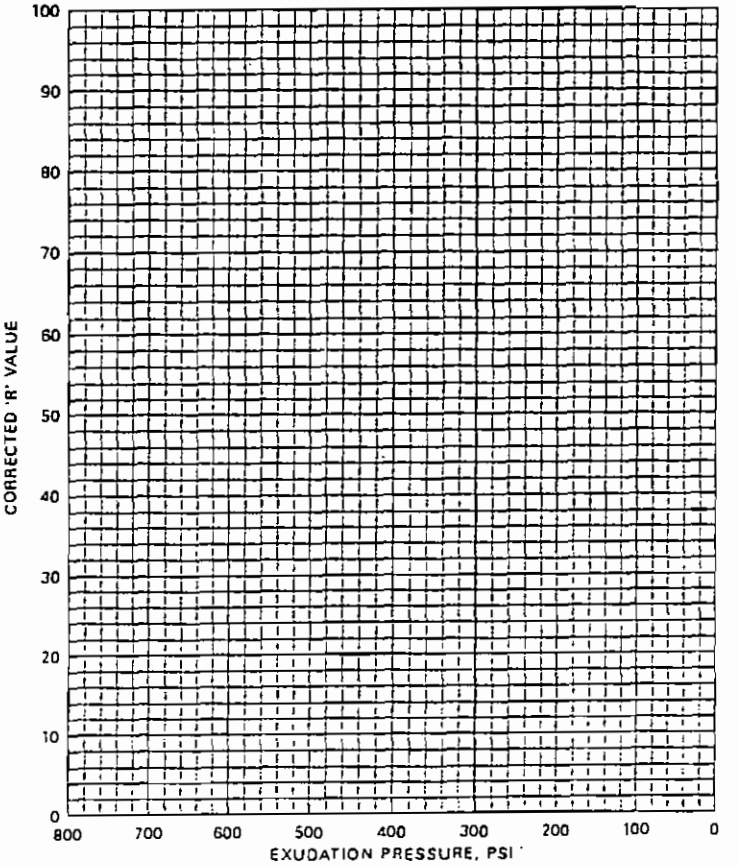
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2	100		
1 1/2	95		
1 1/8			
1	90		
3/4	86		
1/2	80		
3/8	74		
1/4	64		
NO. 4	57		
8	43		
10	41		
16	33		
30	24		
40	21		
50	18		
100	13		
FINER THAN NO. 200 ☐ ASTM D1140 ☒ ASTM C117 ☐ AASHTO T11	8.8		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO. 40
METHOD ☐ A ☐ B

SOIL CLASSIFICATION
☒ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL SP-SM
NAME SAND, WITH SILT AND GRAVEL

Comments:

Copies To: CLIENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

REVIEWED BY Lee Anderson

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type / Use of Material NATIVE
Sample Source / Location UNCEMENTED NATIVE
Reference:

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event / Invoice No. 27460504 Lab No. 2
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96
Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch. / Engr. VECTOR ENGINEERING
Supplier / Source NATIVE
Source / Location Desig. By C.ANDEREGG/WTI Date 10/14/96

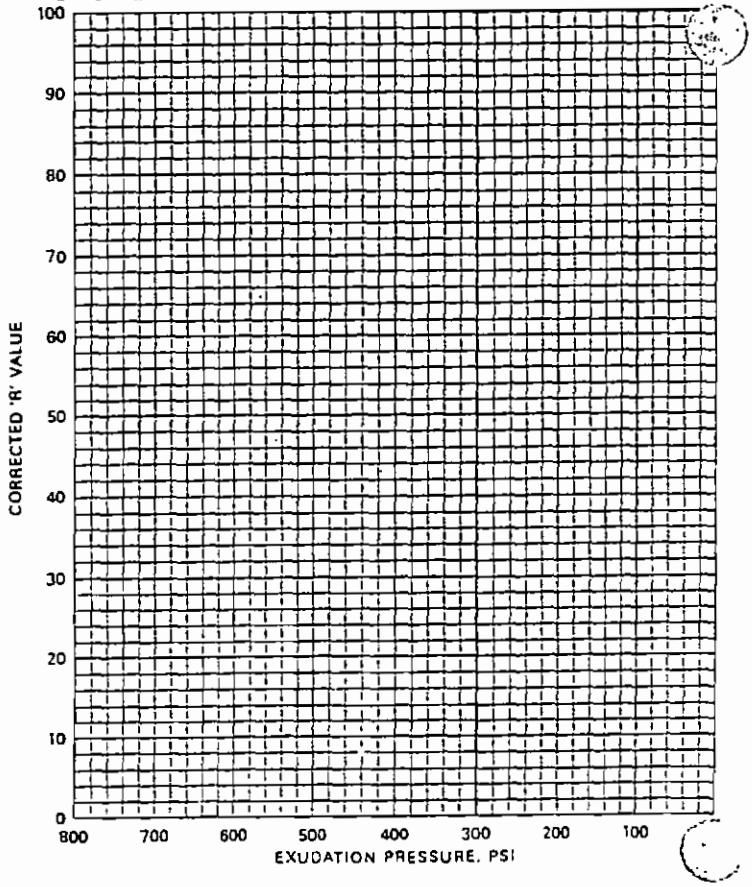
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2			
1 1/2			
1 1/8			
1			
3/4	100		
1/2	94		
3/8	81		
1/4	53		
NO. 4	41		
8	27		
10	24		
16	19		
30	13		
40	10		
50	8		
100	4		
FINER THAN NO. 200 ☒ ASTM D1140 ☐ ASTM C117 ☐ AASHTO T11	2.3		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO. 40
METHOD ☐ A ☐ B

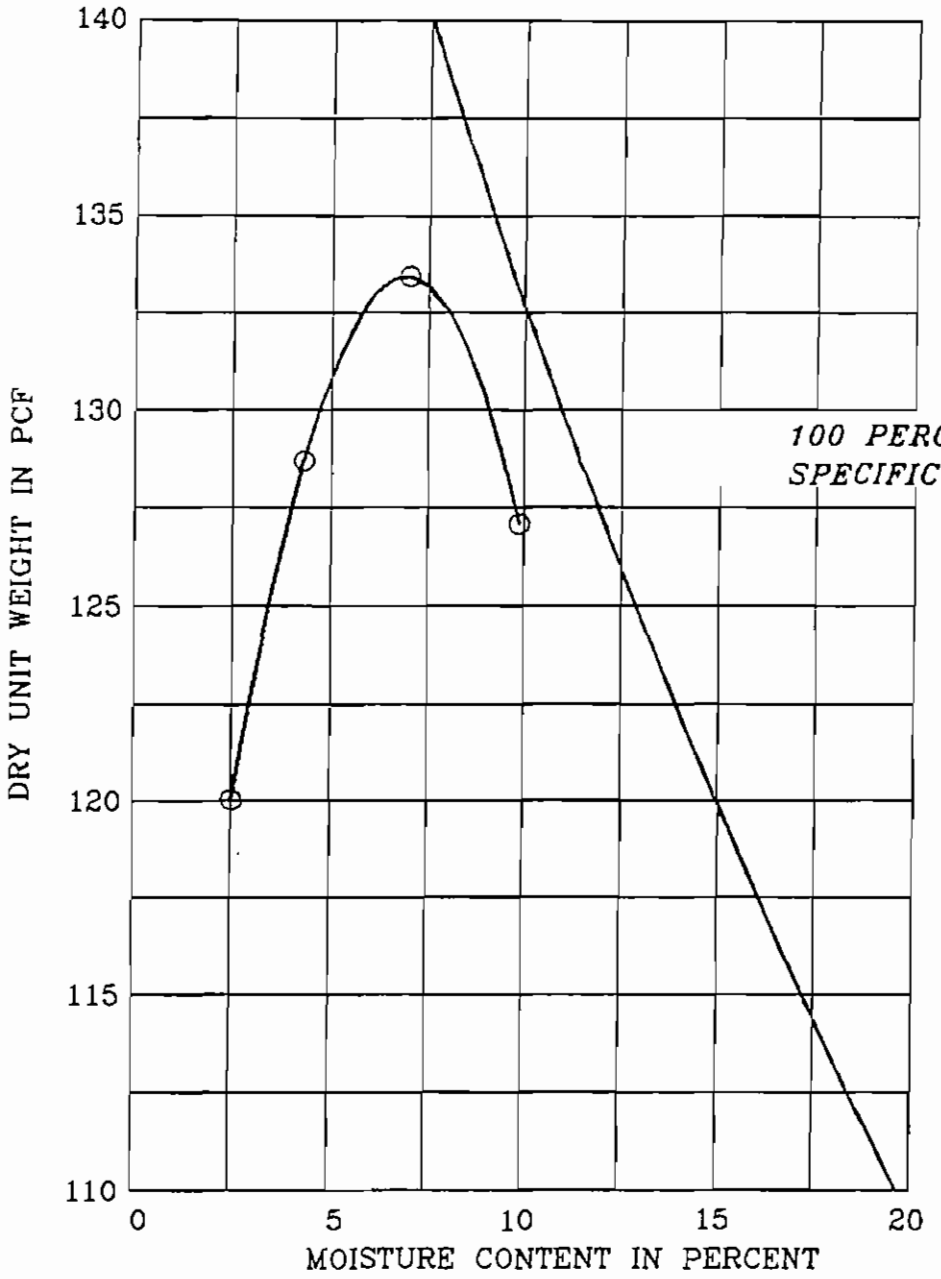
SOIL CLASSIFICATION
☐ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL
NAME

Comments:

Copies To: CLENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

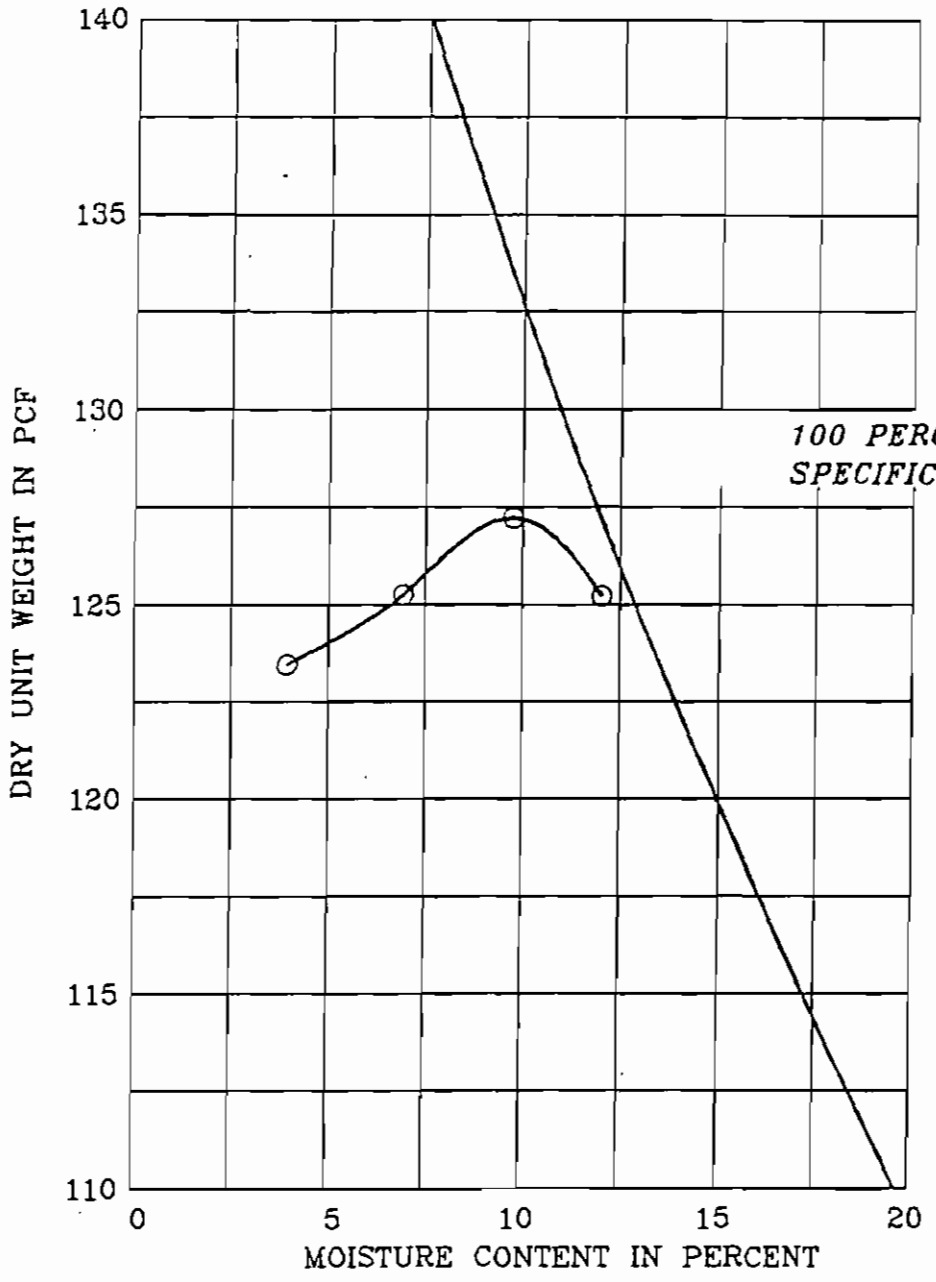
REVIEWED BY C. Anderegg



SYMBOL	SAMPLE LOCATION	DEPTH (ft)	DESCRIPTION	TEST METHOD	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
O	Composite			ASTM-D1557C	7.0	133.4

Remark :

ROJ. NO.965014.02	MESA DISPOSAL - MOHAVE VALLEY LANDFILL
Vector Engineering	COMPACTION TEST LAB FILE 497B



SYMBOL	SAMPLE LOCATION	DEPTH (ft)	DESCRIPTION	TEST METHOD	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
O	Clean Sand and Gravel		Well-Graded Gravel w/Sand	ASTM D1557C	9.8	127.2

Remark :

PROJ. NO.965014.02	MESA DISPOSAL INC. - MOHAVE VALLEY LANDFILL
Vector Engineering	COMPACTION TEST LAB FILE 497

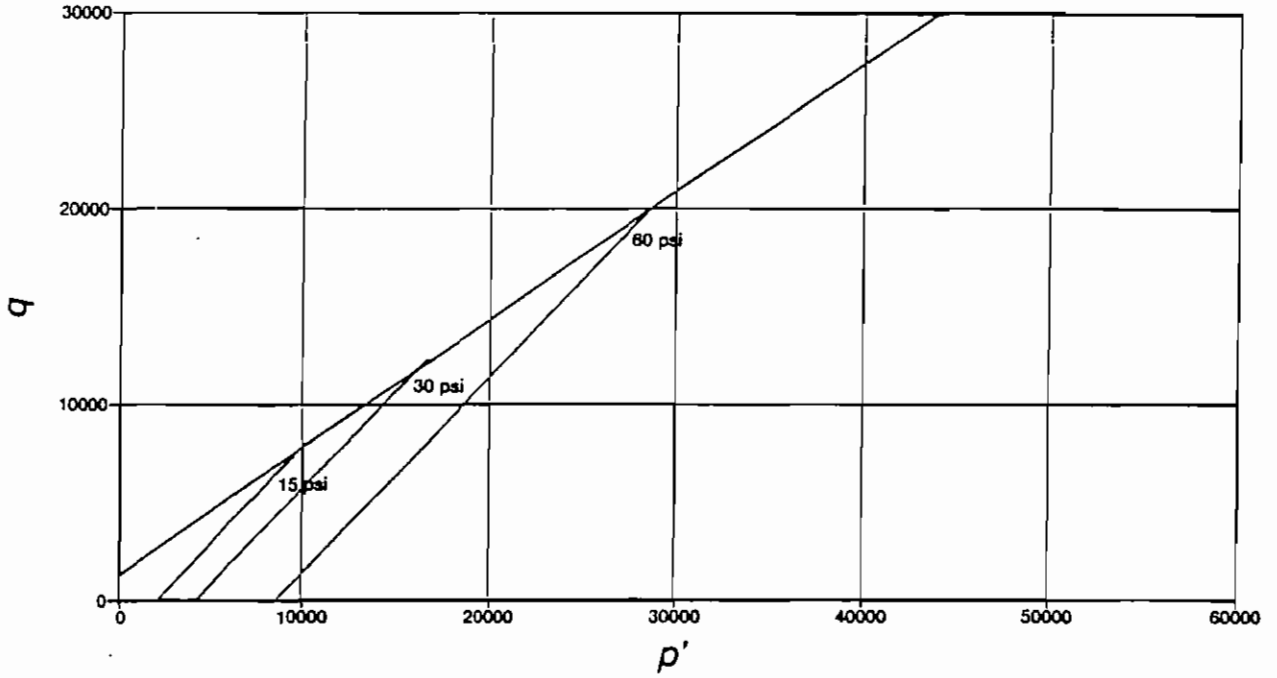
VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

TRIAXIAL COMPRESSION (Consolidated-Drained)

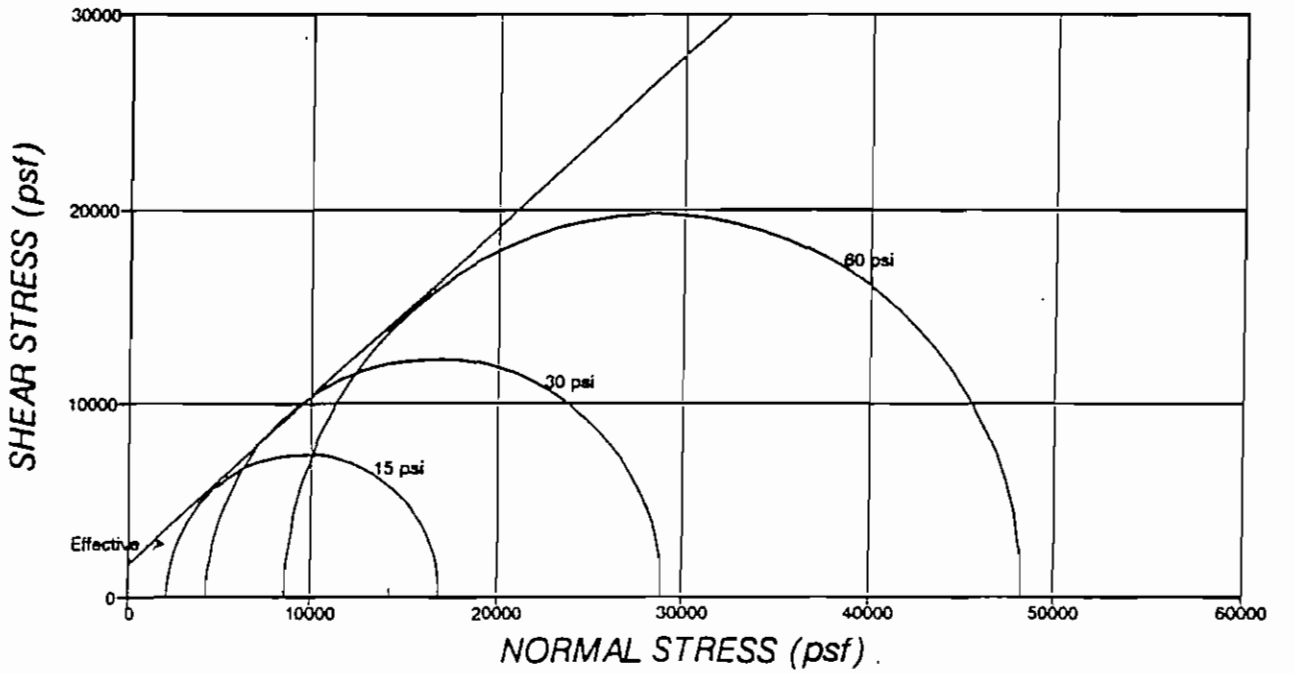
p' - q Diagram and Mohr Stress Circles

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A

PEAK VALUES AT APPROXIMATELY: MAX. DEVIATOR



a (deg.)= 33.2 phi = 40.9 c (psf) = 1240



Effective Stress: phi = 41.1 c (psf) = 1687 Total Stress: phi = 41.1 c (psf) = 1687

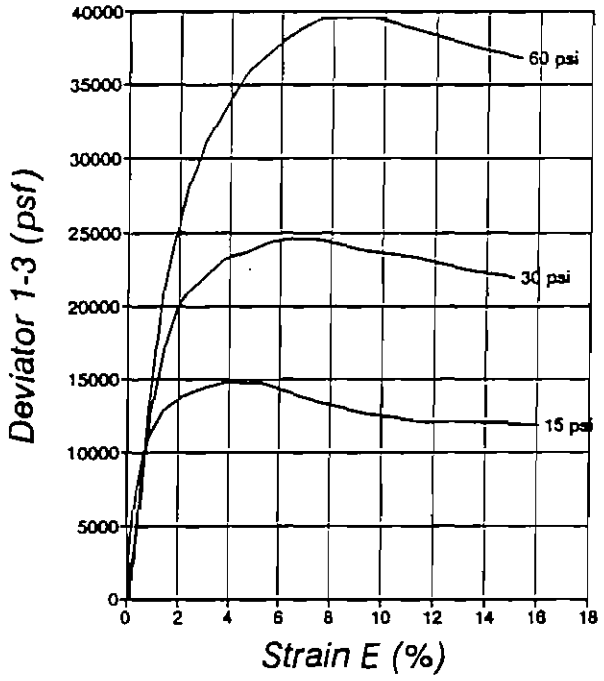
By accepting the data and results represented on this page, Client agrees to limit the liability of Vector Engineering, Inc. from Client and all other parties for claims arising out of the use of this data to the cost for the respective test(s) represented hereon, and Client agrees to indemnify and hold harmless Vector from and against all liability in excess of the aforementioned limit.

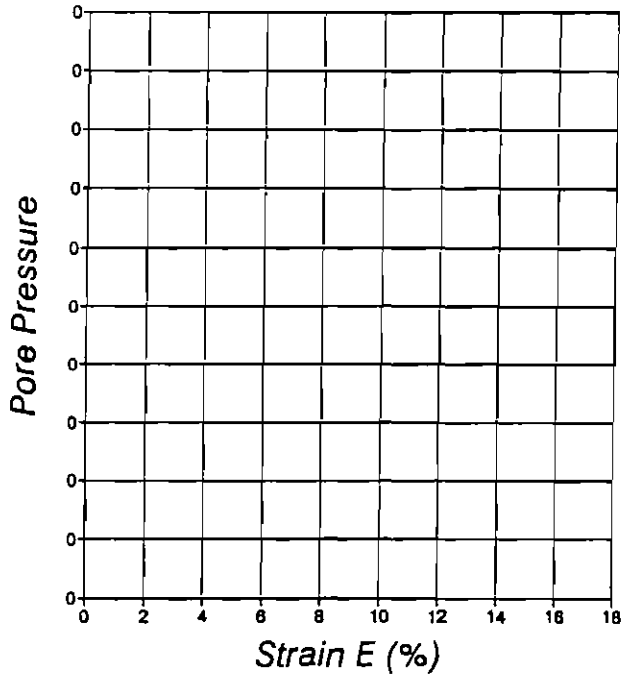
VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

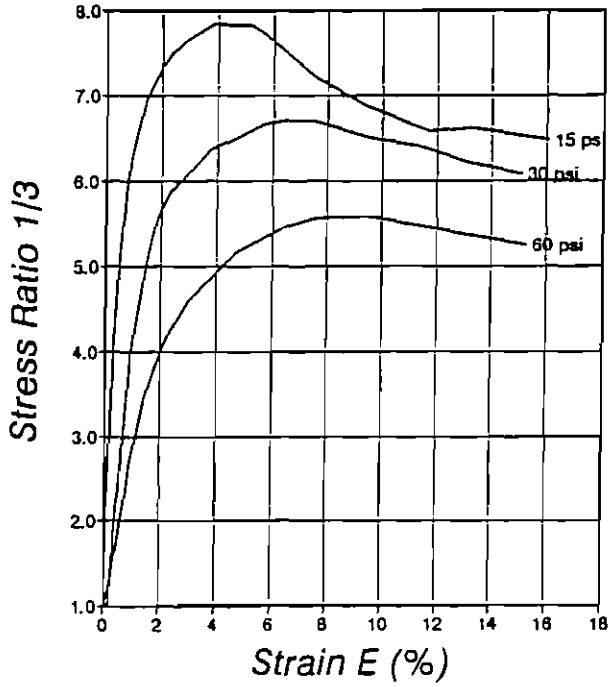
TRIAXIAL COMPRESSION (Consolidated-Drained)

Strain Diagrams

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A







By accepting the data and results represented on this page, Client agrees to limit the liability of Vector Engineering, Inc. from Client and all other parties for claims arising out of the use of this data to the cost for the respective test(s) represented hereon, and Client agrees to indemnify and hold harmless Vector from and against all liability in excess of the aforementioned limit.

VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

TRIAXIAL COMPRESSION (Consolidated-Drained)

Test Summary

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A

Stage No.	Lab I.D.	Sample I.D.	Depth (ft.)	Initial Moisture Content (%)	Intial Dry Density (pcf)
1	497A	Clean Sand & Gravel		3.7	114
2	497B	Clean Sand & Gravel		3.8	115
3	497C	Clean Sand & Gravel		3.8	114
4					

PEAK VALUES AT APPROXIMATELY: MAX. DEVIATOR

Stage No.	Effective Confining Stress (psi)	Effective Confining Stress (psf)	Deviator Stress (psf)	Pore Pressure (psf)	Effective Axial Stress (psf)	Effective Lateral Stress (psf)	
1	15	2160	14754	0	16914	2160	
2	30	4320	24644	0	28964	4320	
3	60	8640	39634	0	48274	8640	
4							

Attachment 3

Seismic Evaluation and Supporting Information

Model *
2018 Conterminous U.S. NSHM

Latitude (°) *
35.023
[24.4, 49.55]

Longitude (°) *
-114.514
[-125, -66.75]

Select Site

Site Class
BC (Vs30 760)

Plot Options

Return Period (yr) *
2475

Presets
2475 (2% in 50)

Truncate Curves

Scale to Max Direction

Plot | Service Calls | Reset

Plots | Hazard Curve Data | Response Spectrum Data

Export Spectra as CSV

AB

B

BC

IMT	PGA	PGV	SA0P01	SA0P02	SA0P03	SA0P05	SA0P075	SA0P1	SA0P15	SA0P2	SA0P25	SA0P3	SA0P4	SA0P5	SA0P75	SA1P0	SA1P5
50 (40% in 25)	0.014364	1.863893	0.014426	0.01458	0.015351	0.017687	0.020586	0.02323	0.026882	0.028691	0.029513	0.029808	0.028945	0.027386	0.021887	0.016686	0.0114
100 (40% in 50)	0.021569	2.831349	0.021662	0.021915	0.023225	0.027201	0.032088	0.036179	0.04122	0.043321	0.043953	0.043933	0.042328	0.040035	0.032044	0.024486	0.0170
200 (40% in 100)	0.031267	4.108692	0.031399	0.031771	0.033887	0.04042	0.048435	0.054689	0.061609	0.063655	0.063559	0.062775	0.059966	0.056675	0.045335	0.034593	0.0242
225 (20% in 50)	0.033207	4.341931	0.033349	0.033733	0.036089	0.043093	0.051858	0.058587	0.065831	0.067802	0.067485	0.066485	0.063356	0.059839	0.047856	0.036588	0.0257
475 (10% in 50)	0.048249	6.149197	0.048456	0.04905	0.052891	0.064558	0.079301	0.090014	0.100149	0.100968	0.098333	0.095283	0.089536	0.084274	0.067152	0.051206	0.0360
975 (5% in 50)	0.068675	8.231372	0.068977	0.069913	0.076184	0.094966	0.119241	0.136045	0.149962	0.147934	0.140543	0.133508	0.122843	0.114629	0.090793	0.069251	0.0485
1033 (7% in 75)	0.070658	8.426543	0.070969	0.071932	0.078451	0.097986	0.123217	0.140643	0.154931	0.152578	0.144658	0.137177	0.126005	0.11749	0.09302	0.070844	0.0496
2475 (2% in 50)	0.109004	11.627295	0.109512	0.111561	0.123086	0.157271	0.202009	0.231219	0.252771	0.243605	0.224139	0.206907	0.183121	0.168149	0.130863	0.099631	0.0692
10000 (1% in 100)	0.21485	18.653217	0.215878	0.22114	0.246548	0.32174	0.419498	0.478697	0.520717	0.495817	0.44607	0.399476	0.330776	0.29217	0.21905	0.164539	0.1113

C

CD

D

DE

E

Attachment 4

Slide2® Slope Stability Modeling Results

SCS ENGINEERS

Mohave Valley Old Final Cover Grades Slope Stability
Mohave Valley Landfill
SCS Engineers
Date Created: 10/2/2025, 10:33:04 AM
Software Version: 9.036

Table of Contents

Project Summary 3
Currently Open Scenarios 3
General Settings 4
Analysis Options 5
All Open Scenarios 5
Groundwater Analysis 6
All Open Scenarios 6
Surface Options 7
Circular - Grid 7
Non-Circular - Cuckoo 7
Seismic - Cuckoo 7
Seismic Loading 8
Circular - Grid 8
Non-Circular - Cuckoo 8
Seismic - Cuckoo 8
Materials 9
Materials In Use 9
Global Minimums 11
Circular - Grid 11
Method: bishop simplified 11
Method: janbu corrected 11
Method: gle/morgenstern-price 11
Non-Circular - Cuckoo 11
Method: bishop simplified 11
Method: janbu corrected 12
Method: gle/morgenstern-price 12
Seismic - Cuckoo 12
Method: bishop simplified 12
Method: janbu corrected 12
Method: gle/morgenstern-price 13
Entity Information 17
Circular - Grid 17
Shared Entities 17
Scenario-based Entities 17
Non-Circular - Cuckoo 17
Shared Entities 17
Scenario-based Entities 17
Seismic - Cuckoo 18
Shared Entities 18
Scenario-based Entities 18

Slide2 Analysis Information

Mohave Valley SS Old Area V2

Project Summary

File Name:	Mohave Valley SS Old Area V2.slmd
Slide2 Modeler Version:	9.036
Project Title:	Mohave Valley Landfill
Analysis:	New Fill Slopes Analysis
Company:	SCS Engineers
Date Created:	10/2/2025, 10:33:04 AM

Currently Open Scenarios

Group Name	Scenario Name	Global Minimum	Compute Time
Circular - Grid	Master Scenario	Bishop Simplified: 1.725390 Janbu Corrected: 1.726610 Gle/morgenstern-price: 1.725260	00h:00m:01.173s
Non-Circular - Cuckoo	Master Scenario	Bishop Simplified: 1.725280 Janbu Corrected: 1.725230 Gle/morgenstern-price: 1.725220	00h:00m:06.516s
Seismic - Cuckoo	Master Scenario	Bishop Simplified: 1.454540 Janbu Corrected: 1.454440 Gle/morgenstern-price: 1.454430	00h:00m:05.596s

General Settings

Units of Measurement:	Imperial Units
Time Units:	days
Permeability Units:	feet/second
Data Output:	Standard
Failure Direction:	Right to Left

Analysis Options

All Open Scenarios

Slices Type:	Vertical
Analysis Methods Used	
	Bishop simplified
	GLE/Morgenstern-Price with interslice force function (Half Sine)
	Janbu corrected
Number of slices:	50
Tolerance:	0.005
Maximum number of iterations:	75
Check malpha < 0.2:	Yes
Create Interslice boundaries at intersections with water tables and piezos:	Yes
Initial trial value of FS:	1
Steffensen Iteration:	Yes

Groundwater Analysis

All Open Scenarios

Groundwater Method:	Water Surfaces
Pore Fluid Unit Weight [lbs/ft3]:	62.4
Advanced Groundwater Method:	None

Surface Options

Circular - Grid

Surface Type:	Circular
Search Method:	Grid Search
Radius Increment:	10
Composite Surfaces:	Disabled
Reverse Curvature:	Invalid Surfaces
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined

Non-Circular - Cuckoo

Search Method:	Cuckoo Search
Initial # of Surface Vertices:	20
Maximum Iterations:	500
Number of Nests:	100
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined
Convex Surfaces Only:	Enabled
Optimize Surfaces:	Enabled

Seismic - Cuckoo

Search Method:	Cuckoo Search
Initial # of Surface Vertices:	20
Maximum Iterations:	500
Number of Nests:	100
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined
Convex Surfaces Only:	Enabled
Optimize Surfaces:	Enabled

Seismic Loading

Circular - Grid

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No

Non-Circular - Cuckoo

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No

Seismic - Cuckoo

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No
Seismic Load Coefficient (Horizontal):	0.055

Materials

MSW	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	75 lbs/ft3
Cohesion	500 psf
Phi	33 °
Water Surface	Assigned per scenario
Hu Type	Custom
Hu	1
Specify alternate strength type above water surface	No

Native Subgrade	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	118 lbs/ft3
Cohesion	800 psf
Phi	41 °
Water Surface	Assigned per scenario
Hu Type	Custom
Hu	1
Specify alternate strength type above water surface	No

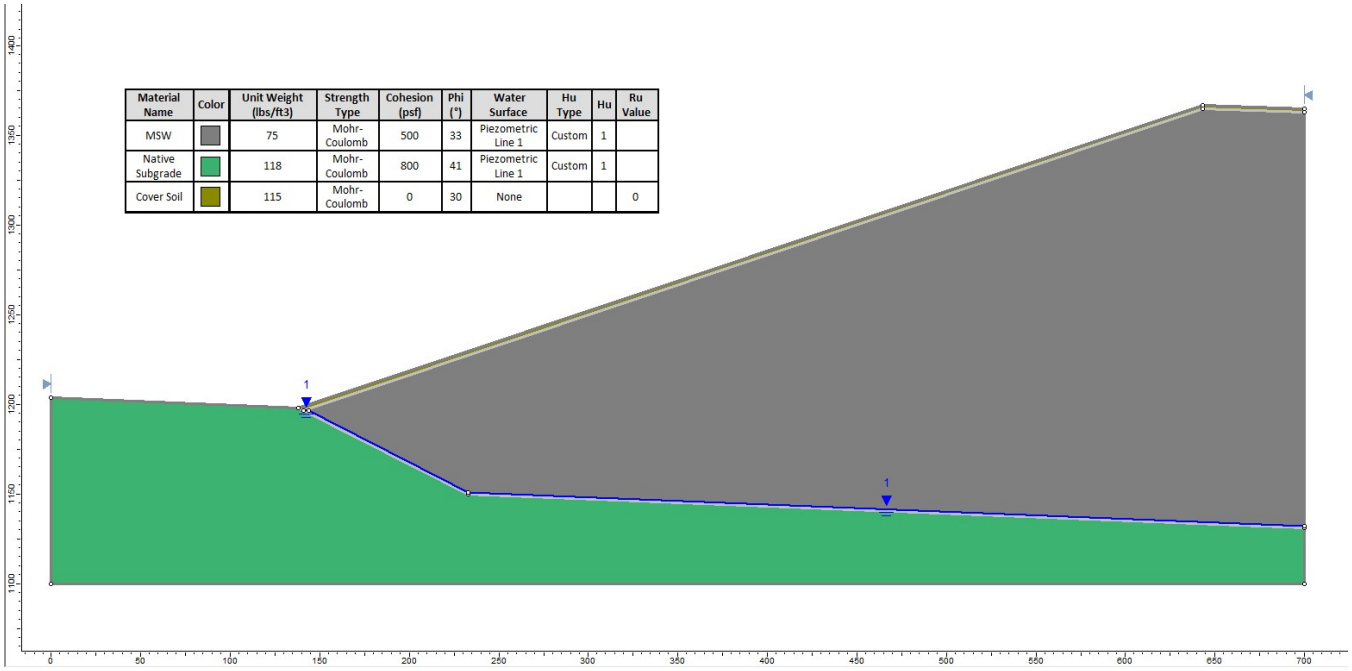
Cover Soil	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	115 lbs/ft3
Cohesion	0 psf
Phi	30 °
Water Surface	Assigned per scenario
Ru Value	0

Materials In Use

Material	Circular - Grid	Non-Circular - Cuckoo	Seismic - Cuckoo
MSW	✓	✓	✓
Native Subgrade	✓	✓	✓
Cover Soil	✓	✓	✓

Image 1: Cross section, materials and materials parameters shown.

Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (°)	Water Surface	Hu Type	Hu	Ru Value
MSW		75	Mohr-Coulomb	500	33	Piezometric Line 1	Custom	1	
Native Subgrade		118	Mohr-Coulomb	800	41	Piezometric Line 1	Custom	1	
Cover Soil		115	Mohr-Coulomb	0	30	None			0



Global Minimums

Circular - Grid

Method: bishop simplified

FS	1.725390
Center:	70.000, 1670.000
Radius:	469.205
Left Slip Surface Endpoint:	214.391, 1223.564
Right Slip Surface Endpoint:	223.402, 1226.580
Resisting Moment:	4500.98 lb-ft
Driving Moment:	2608.67 lb-ft
Total Slice Area:	0.152345 ft2
Surface Horizontal Width:	9.01142 ft
Surface Average Height:	0.0169058 ft

Method: janbu corrected

FS	1.726610
Center:	70.000, 1670.000
Radius:	469.205
Left Slip Surface Endpoint:	214.391, 1223.564
Right Slip Surface Endpoint:	223.402, 1226.580
Resisting Horizontal Force:	9.10344 lb
Driving Horizontal Force:	5.27245 lb
Total Slice Area:	0.152345 ft2
Surface Horizontal Width:	9.01142 ft
Surface Average Height:	0.0169058 ft

Method: gle/morgenstern-price

FS	1.725260
Center:	70.000, 1670.000
Radius:	469.205
Left Slip Surface Endpoint:	214.391, 1223.564
Right Slip Surface Endpoint:	223.402, 1226.580
Resisting Moment:	4500.63 lb-ft
Driving Moment:	2608.67 lb-ft
Resisting Horizontal Force:	9.09631 lb
Driving Horizontal Force:	5.27244 lb
Total Slice Area:	0.152345 ft2
Surface Horizontal Width:	9.01142 ft
Surface Average Height:	0.0169058 ft

Non-Circular - Cuckoo

Method: bishop simplified

FS	1.725280
Axis Location:	324.962, 1643.406
Left Slip Surface Endpoint:	268.036, 1241.517
Right Slip Surface Endpoint:	612.318, 1356.732
Resisting Moment:	24644.9 lb-ft
Driving Moment:	14284.6 lb-ft
Total Slice Area:	1.07809 ft2
Surface Horizontal Width:	344.282 ft
Surface Average Height:	0.00313141 ft

Method: janbu corrected

FS	1.725230
Axis Location:	278.626, 1684.185
Left Slip Surface Endpoint:	213.331, 1223.210
Right Slip Surface Endpoint:	608.229, 1355.364
Resisting Horizontal Force:	70.11 lb
Driving Horizontal Force:	40.6382 lb
Total Slice Area:	1.1742 ft2
Surface Horizontal Width:	394.898 ft
Surface Average Height:	0.00297344 ft

Method: gle/morgenstern-price

FS	1.725220
Axis Location:	324.962, 1643.406
Left Slip Surface Endpoint:	268.036, 1241.517
Right Slip Surface Endpoint:	612.318, 1356.732
Resisting Moment:	24644.1 lb-ft
Driving Moment:	14284.6 lb-ft
Resisting Horizontal Force:	64.3708 lb
Driving Horizontal Force:	37.3117 lb
Total Slice Area:	1.07809 ft2
Surface Horizontal Width:	344.282 ft
Surface Average Height:	0.00313141 ft

Seismic - Cuckoo

Method: bishop simplified

FS	1.454540
Axis Location:	361.756, 1553.552
Left Slip Surface Endpoint:	320.022, 1258.914
Right Slip Surface Endpoint:	572.426, 1343.382
Resisting Moment:	18016.2 lb-ft
Driving Moment:	12386.1 lb-ft
Total Slice Area:	1.09505 ft2
Surface Horizontal Width:	252.404 ft
Surface Average Height:	0.00433848 ft

Method: janbu corrected

FS	1.454440
Axis Location:	213.555, 1557.080
Left Slip Surface Endpoint:	163.922, 1206.675
Right Slip Surface Endpoint:	464.099, 1307.130
Resisting Horizontal Force:	43.982 lb
Driving Horizontal Force:	30.2399 lb
Total Slice Area:	0.750417 ft2
Surface Horizontal Width:	300.178 ft
Surface Average Height:	0.00249991 ft

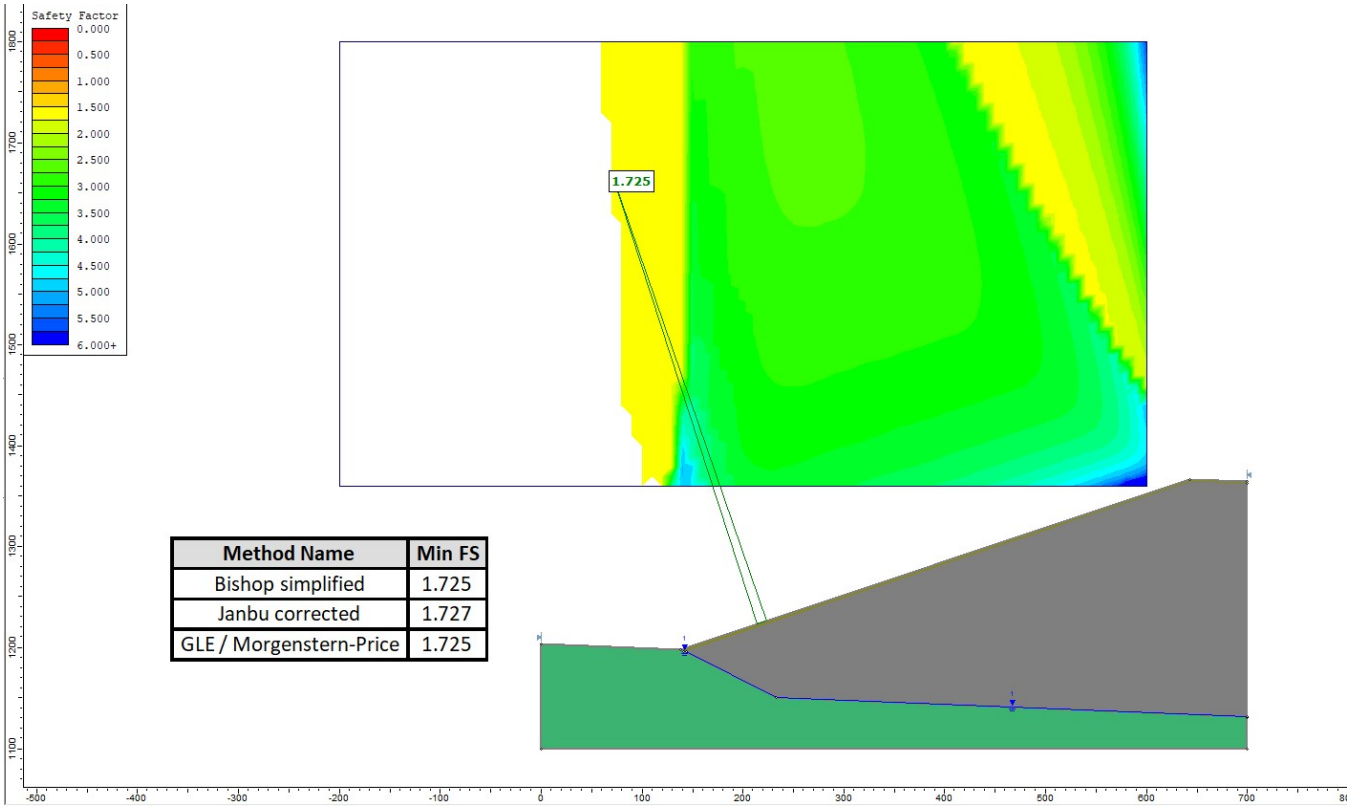
Method: gle/morgenstern-price

FS	1.454430
Axis Location:	213.555, 1557.080
Left Slip Surface Endpoint:	163.922, 1206.675
Right Slip Surface Endpoint:	464.099, 1307.130
Resisting Moment:	14681.5 lb-ft
Driving Moment:	10094.3 lb-ft
Resisting Horizontal Force:	43.9815 lb
Driving Horizontal Force:	30.2397 lb
Total Slice Area:	0.750417 ft2
Surface Horizontal Width:	300.178 ft
Surface Average Height:	0.00249991 ft

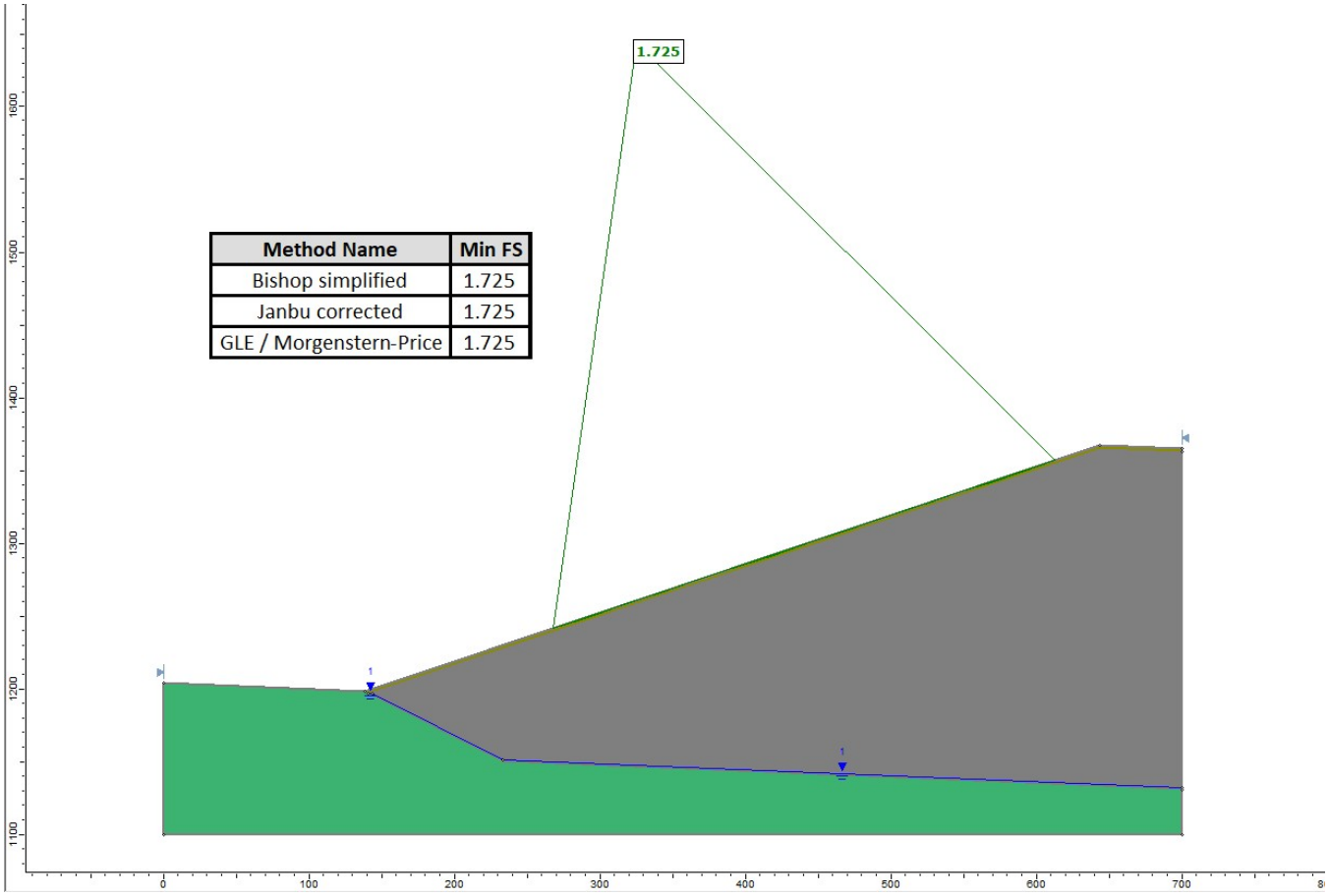
Image 2: Results of the Circular Grid Analysis and the calculated Factors of Safeties.

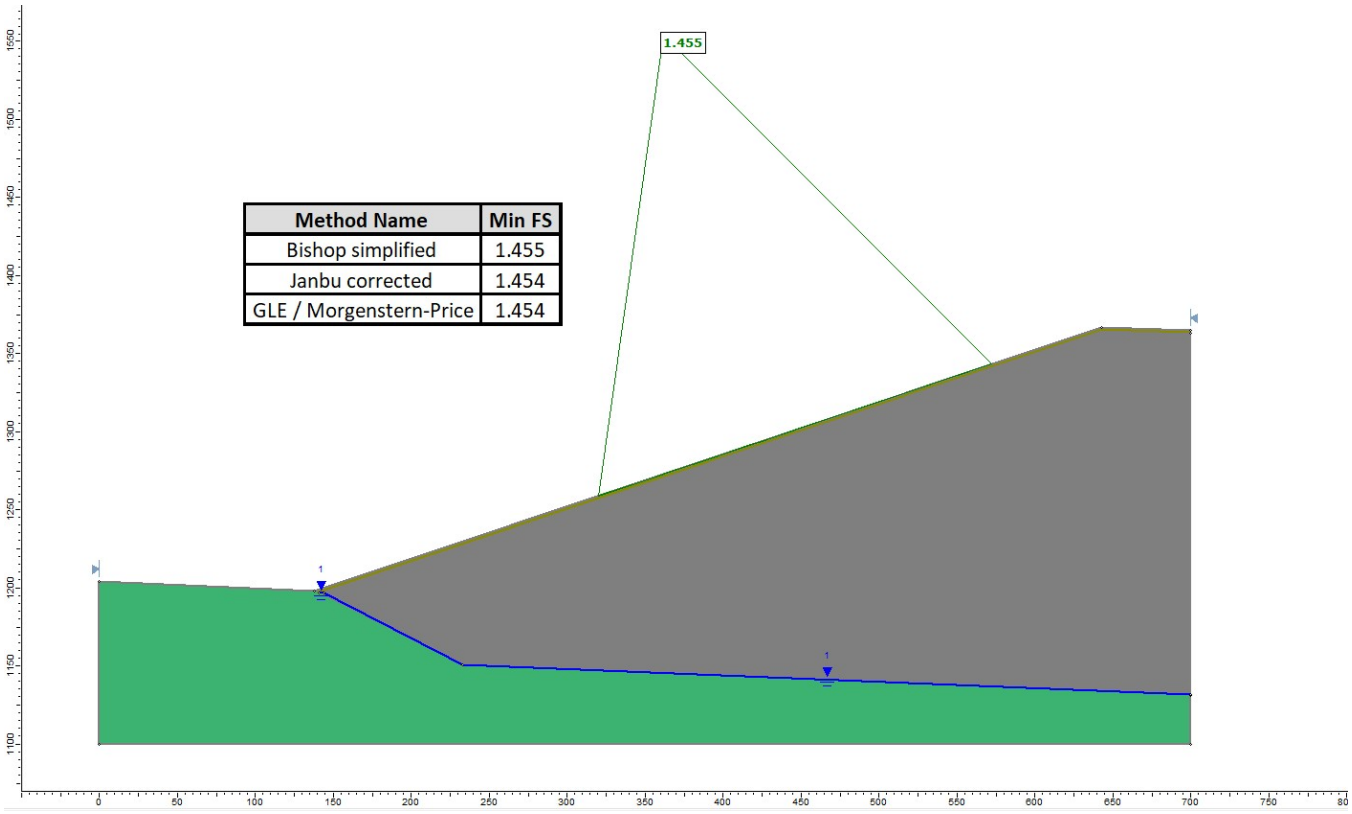
Image 3: Results of Non-Circular Cuckoo Analysis and the calculated Factors of Safeties. This is the most critical analysis for the Static Condition.

Image 4: Results of Seismic Analysis and the calculated Factors of Safeties. This is the most critical analysis for the Seismic Condition.



Method Name	Min FS
Bishop simplified	1.725
Janbu corrected	1.727
GLE / Morgenstern-Price	1.725


1.725
Method Name
Min FS
Bishop simplified
1.725
Janbu corrected
1.725
GLE / Morgenstern-Price
1.725
1600
1500
1400
1300
1200
1100
0
100
200
300
400
500
600
700


1.455
Method Name | Min FS
Bishop simplified | 1.455
Janbu corrected | 1.454
GLE / Morgenstern-Price | 1.454

Entity Information

Circular - Grid

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1204 0, 1100 700, 1100 700, 1131 700, 1363 700, 1365 643, 1367 138, 1198
Material Boundary	138, 1198 140.805, 1196.58 233, 1150 700, 1131
Material Boundary	140.805, 1196.58 643, 1365 700, 1363

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	140.805, 1196.58 143.789, 1196.58 233, 1151 700, 1132	Assigned to: MSW Native Subgrade

Non-Circular - Cuckoo

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1204 0, 1100 700, 1100 700, 1131 700, 1363 700, 1365 643, 1367 138, 1198
Material Boundary	138, 1198 140.805, 1196.58 233, 1150 700, 1131
Material Boundary	140.805, 1196.58 643, 1365 700, 1363

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	140.805, 1196.58 143.789, 1196.58 233, 1151 700, 1132	Assigned to: MSW Native Subgrade

Seismic - Cuckoo

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1204 0, 1100 700, 1100 700, 1131 700, 1363 700, 1365 643, 1367 138, 1198
Material Boundary	138, 1198 140.805, 1196.58 233, 1150 700, 1131
Material Boundary	140.805, 1196.58 643, 1365 700, 1363

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	140.805, 1196.58 143.789, 1196.58 233, 1151 700, 1132	Assigned to: MSW Native Subgrade

SCS ENGINEERS

Mohave Valley Final Cover Grades Slope Stability
Mohave Valley Landfill
SCS Engineers
Date Created: 10/2/2025, 10:33:04 AM
Software Version: 9.036

Table of Contents

Project Summary 3
Currently Open Scenarios 3
General Settings 4
Analysis Options 5
All Open Scenarios 5
Groundwater Analysis 6
All Open Scenarios 6
Surface Options 7
Circular - Grid 7
Non-Circular - Cuckoo 7
Seismic - Cuckoo 7
Seismic Loading 8
Circular - Grid 8
Non-Circular - Cuckoo 8
Seismic - Cuckoo 8
Materials 9
Materials In Use 10
Global Minimums 11
Circular - Grid 11
Method: bishop simplified 11
Method: janbu corrected 11
Method: gle/morgenstern-price 11
Non-Circular - Cuckoo 11
Method: bishop simplified 11
Method: janbu corrected 12
Method: gle/morgenstern-price 12
Seismic - Cuckoo 12
Method: bishop simplified 12
Method: janbu corrected 12
Method: gle/morgenstern-price 13
Entity Information 17
Circular - Grid 17
Shared Entities 17
Scenario-based Entities 17
Non-Circular - Cuckoo 17
Shared Entities 17
Scenario-based Entities 18
Seismic - Cuckoo 18
Shared Entities 18
Scenario-based Entities 19

Slide2 Analysis Information

Mohave Valley SS V2

Project Summary

File Name:	Mohave Valley SS V2.slmd
Slide2 Modeler Version:	9.036
Project Title:	Mohave Valley Landfill
Analysis:	New Fill Slopes Analysis
Company:	SCS Engineers
Date Created:	10/2/2025, 10:33:04 AM

Currently Open Scenarios

Group Name	Scenario Name	Global Minimum	Compute Time
Circular - Grid	Master Scenario	Bishop Simplified: 1.701810 Janbu Corrected: 1.702770 Gle/morgenstern-price: 1.701690	00h:00m:01.791s
Non-Circular - Cuckoo	Master Scenario	Bishop Simplified: 1.701720 Janbu Corrected: 1.701670 Gle/morgenstern-price: 1.701660	00h:00m:08.735s
Seismic - Cuckoo	Master Scenario	Bishop Simplified: 1.437090 Janbu Corrected: 1.436980 Gle/morgenstern-price: 1.436970	00h:00m:09.207s

General Settings

Units of Measurement:	Imperial Units
Time Units:	days
Permeability Units:	feet/second
Data Output:	Standard
Failure Direction:	Right to Left

Analysis Options

All Open Scenarios

Slices Type:	Vertical
Analysis Methods Used	
	Bishop simplified
	GLE/Morgenstern-Price with interslice force function (Half Sine)
	Janbu corrected
Number of slices:	50
Tolerance:	0.005
Maximum number of iterations:	75
Check malpha < 0.2:	Yes
Create Interslice boundaries at intersections with water tables and piezos:	Yes
Initial trial value of FS:	1
Steffensen Iteration:	Yes

Groundwater Analysis

All Open Scenarios

Groundwater Method:	Water Surfaces
Pore Fluid Unit Weight [lbs/ft3]:	62.4
Advanced Groundwater Method:	None

Surface Options

Circular - Grid

Surface Type:	Circular
Search Method:	Grid Search
Radius Increment:	10
Composite Surfaces:	Disabled
Reverse Curvature:	Invalid Surfaces
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined

Non-Circular - Cuckoo

Search Method:	Cuckoo Search
Initial # of Surface Vertices:	20
Maximum Iterations:	500
Number of Nests:	100
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined
Convex Surfaces Only:	Enabled
Optimize Surfaces:	Enabled

Seismic - Cuckoo

Search Method:	Cuckoo Search
Initial # of Surface Vertices:	20
Maximum Iterations:	500
Number of Nests:	100
Minimum Elevation:	Not Defined
Minimum Depth:	Not Defined
Minimum Area:	Not Defined
Minimum Weight:	Not Defined
Convex Surfaces Only:	Enabled
Optimize Surfaces:	Enabled

Seismic Loading

Circular - Grid

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No

Non-Circular - Cuckoo

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No

Seismic - Cuckoo

Advanced seismic analysis:	No
Staged pseudostatic analysis:	No
Seismic Load Coefficient (Horizontal):	0.055

Materials

MSW	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	75 lbs/ft3
Cohesion	500 psf
Phi	33 °
Water Surface	Assigned per scenario
Hu Type	Custom
Hu	1
Specify alternate strength type above water surface	No

Native Subgrade	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	118 lbs/ft3
Cohesion	800 psf
Phi	41 °
Water Surface	Assigned per scenario
Ru Value	0

Liner (Floor)	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	80 lbs/ft3
Cohesion	167 psf
Phi	23 °
Water Surface	Assigned per scenario
Hu Type	Custom
Hu	1
Specify alternate strength type above water surface	No

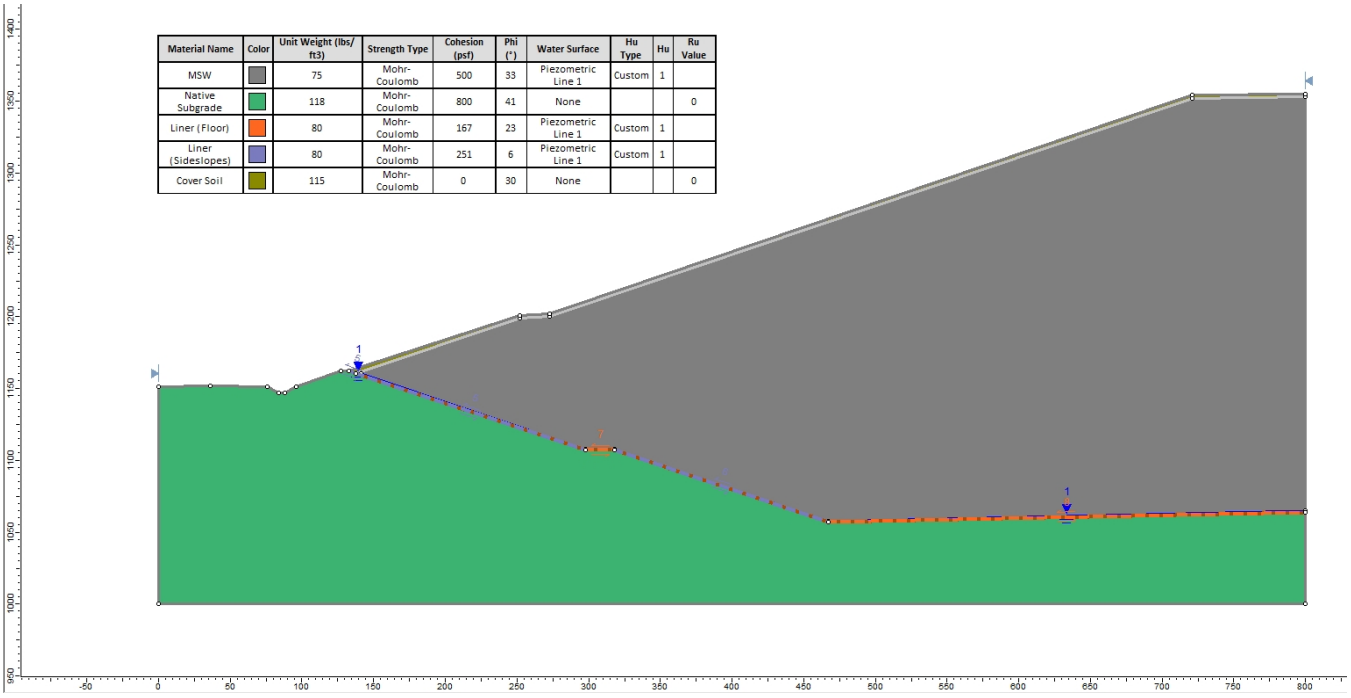
Liner (Sideslopes)	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	80 lbs/ft3
Cohesion	251 psf
Phi	6 °
Water Surface	Assigned per scenario
Hu Type	Custom
Hu	1
Specify alternate strength type above water surface	No

Cover Soil	
Color	
Strength Type	Mohr-Coulomb
Unit Weight	115 lbs/ft3
Cohesion	0 psf
Phi	30 °
Water Surface	Assigned per scenario
Ru Value	0

Materials In Use

Material	Circular - Grid	Non-Circular - Cuckoo	Seismic - Cuckoo
MSW	✓	✓	✓
Native Subgrade	✓	✓	✓
Liner (Floor)	✓	✓	✓
Liner (Sideslopes)	✓	✓	✓
Cover Soil	✓	✓	✓

Image 1: Cross section, materials and materials parameters shown.



Global Minimums

Circular - Grid

Method: bishop simplified

FS	1.701810
Center:	100.000, 1730.000
Radius:	555.608
Left Slip Surface Endpoint:	274.174, 1202.398
Right Slip Surface Endpoint:	282.844, 1205.340
Resisting Moment:	4019.28 lb-ft
Driving Moment:	2361.77 lb-ft
Total Slice Area:	0.115047 ft2
Surface Horizontal Width:	8.66968 ft
Surface Average Height:	0.01327 ft

Method: janbu corrected

FS	1.702770
Center:	100.000, 1730.000
Radius:	555.608
Left Slip Surface Endpoint:	274.174, 1202.398
Right Slip Surface Endpoint:	282.844, 1205.340
Resisting Horizontal Force:	6.8544 lb
Driving Horizontal Force:	4.02543 lb
Total Slice Area:	0.115047 ft2
Surface Horizontal Width:	8.66968 ft
Surface Average Height:	0.01327 ft

Method: gle/morgenstern-price

FS	1.701690
Center:	100.000, 1730.000
Radius:	555.608
Left Slip Surface Endpoint:	274.174, 1202.398
Right Slip Surface Endpoint:	282.844, 1205.340
Resisting Moment:	4018.99 lb-ft
Driving Moment:	2361.77 lb-ft
Resisting Horizontal Force:	6.85003 lb
Driving Horizontal Force:	4.02543 lb
Total Slice Area:	0.115047 ft2
Surface Horizontal Width:	8.66968 ft
Surface Average Height:	0.01327 ft

Non-Circular - Cuckoo

Method: bishop simplified

FS	1.701720
Axis Location:	315.037, 1481.597
Left Slip Surface Endpoint:	276.796, 1203.288
Right Slip Surface Endpoint:	514.740, 1284.019
Resisting Moment:	18174 lb-ft
Driving Moment:	10679.8 lb-ft
Total Slice Area:	1.1503 ft2
Surface Horizontal Width:	237.944 ft
Surface Average Height:	0.00483434 ft

Method: janbu corrected

FS	1.701670
Axis Location:	398.071, 1636.622
Left Slip Surface Endpoint:	341.548, 1225.257
Right Slip Surface Endpoint:	693.249, 1344.585
Resisting Horizontal Force:	51.3262 lb
Driving Horizontal Force:	30.1623 lb
Total Slice Area:	0.862026 ft2
Surface Horizontal Width:	351.701 ft
Surface Average Height:	0.00245102 ft

Method: gle/morgenstern-price

FS	1.701660
Axis Location:	360.378, 1384.965
Left Slip Surface Endpoint:	338.281, 1224.149
Right Slip Surface Endpoint:	475.772, 1270.798
Resisting Moment:	2315.09 lb-ft
Driving Moment:	1360.48 lb-ft
Resisting Horizontal Force:	15.0985 lb
Driving Horizontal Force:	8.87277 lb
Total Slice Area:	0.25358 ft2
Surface Horizontal Width:	137.492 ft
Surface Average Height:	0.00184433 ft

Seismic - Cuckoo

Method: bishop simplified

FS	1.437090
Axis Location:	379.566, 1548.309
Left Slip Surface Endpoint:	334.865, 1222.990
Right Slip Surface Endpoint:	613.001, 1317.357
Resisting Moment:	15163 lb-ft
Driving Moment:	10551.2 lb-ft
Total Slice Area:	0.836586 ft2
Surface Horizontal Width:	278.135 ft
Surface Average Height:	0.00300784 ft

Method: janbu corrected

FS	1.436980
Axis Location:	485.919, 1506.607
Left Slip Surface Endpoint:	452.430, 1262.878
Right Slip Surface Endpoint:	660.809, 1333.578
Resisting Horizontal Force:	27.0894 lb
Driving Horizontal Force:	18.8516 lb
Total Slice Area:	0.463614 ft2
Surface Horizontal Width:	208.379 ft
Surface Average Height:	0.00222486 ft

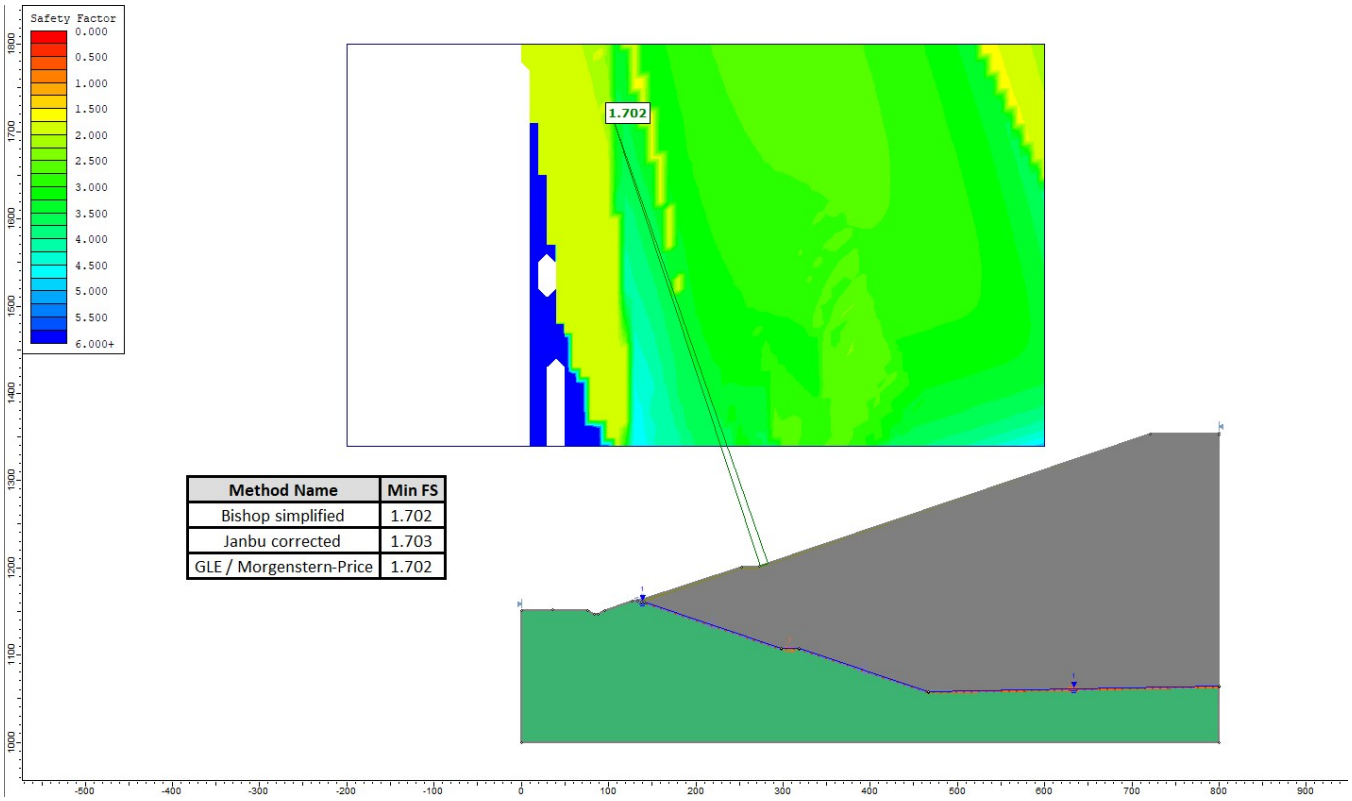
Method: gle/morgenstern-price

FS	1.436970
Axis Location:	485.919, 1506.607
Left Slip Surface Endpoint:	452.430, 1262.878
Right Slip Surface Endpoint:	660.809, 1333.578
Resisting Moment:	6294.96 lb-ft
Driving Moment:	4380.72 lb-ft
Resisting Horizontal Force:	27.089 lb
Driving Horizontal Force:	18.8515 lb
Total Slice Area:	0.463614 ft2
Surface Horizontal Width:	208.379 ft
Surface Average Height:	0.00222486 ft

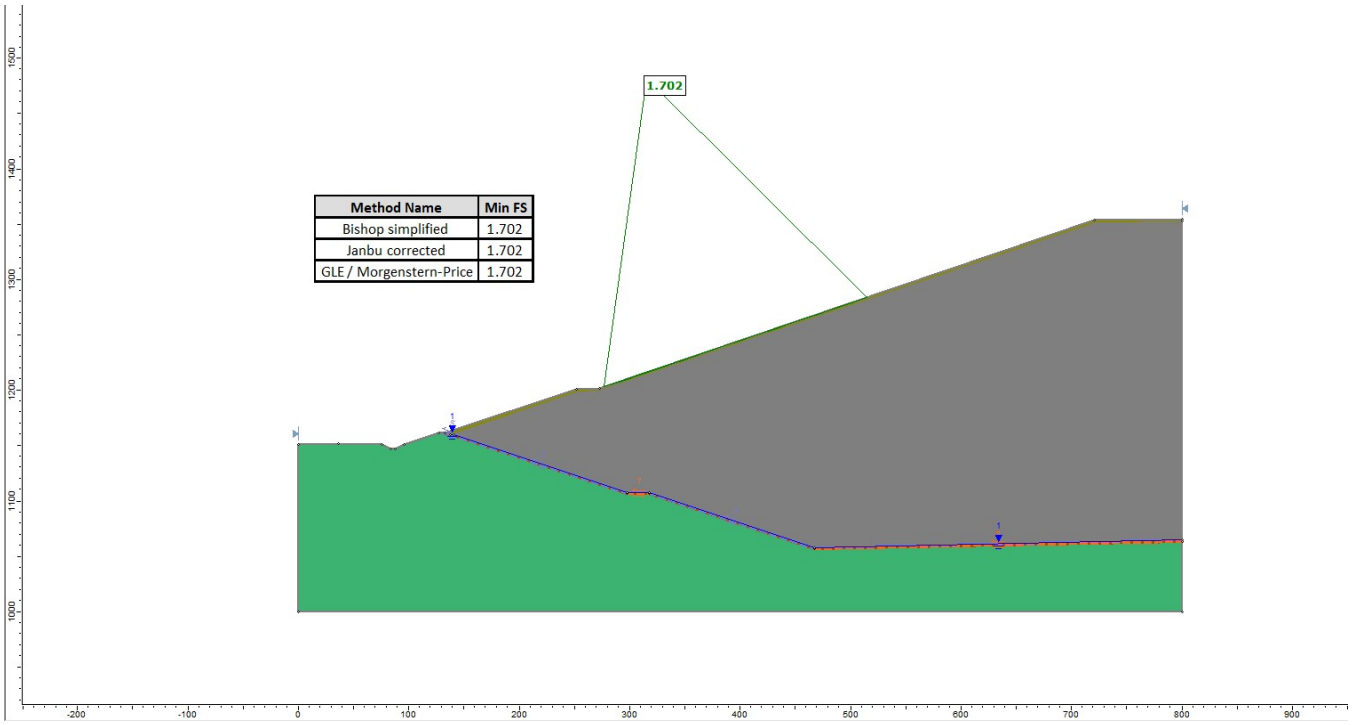
Image 2: Results of the Circular Grid Analysis and the Calculated Factor of Safeties.

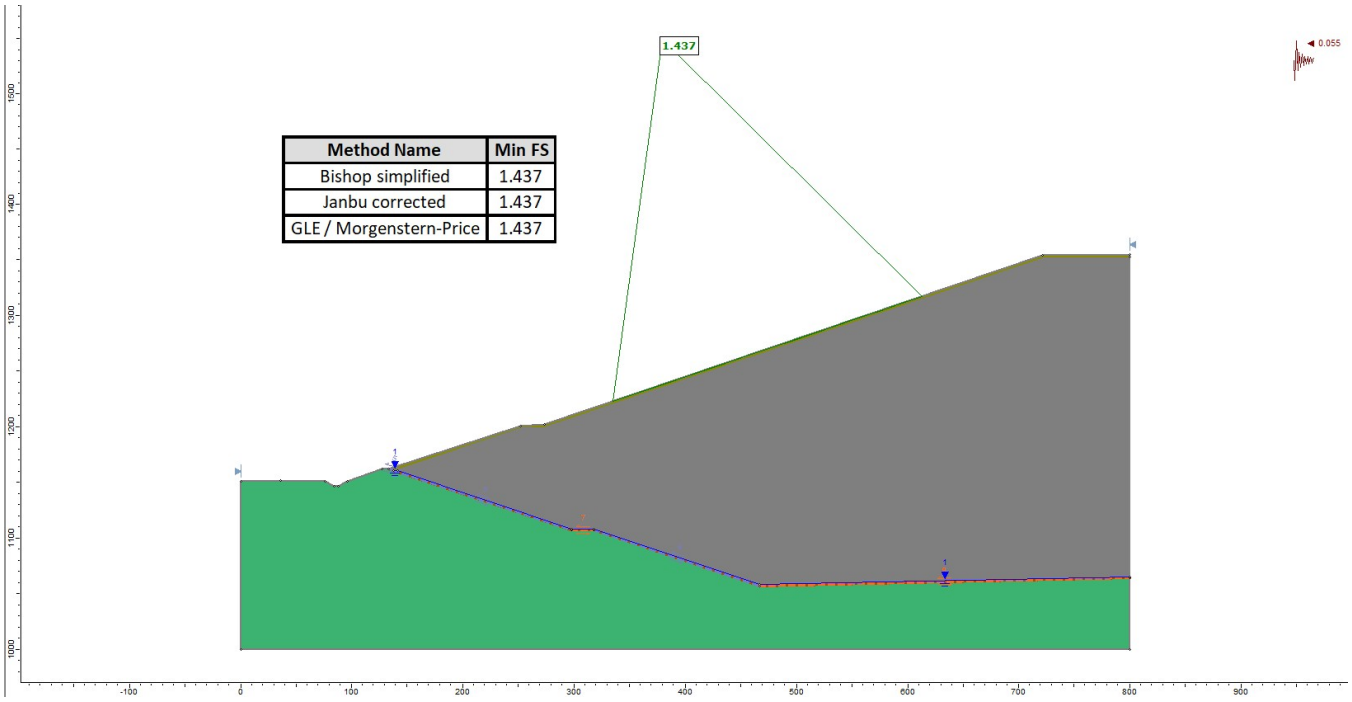
Image 3: Results of the Non-Circular Cuckoo Analysis and the calculated Factor of Safeties. This is the most critical analysis for the Static Condition.

Image 4: Results of the Seismic Analysis and the calculated Factors of Safeties. This is the most critical analysis for the Seismic Condition.



Method Name	Min FS
Bishop simplified	1.702
Janbu corrected	1.703
GLE / Morgenstern-Price	1.702


1.702
Method Name
Min FS
Bishop simplified
1.702
Janbu corrected
1.702
GLE / Morgenstern-Price
1.702


1.437
0.055
Method Name
Min FS
Bishop simplified
1.437
Janbu corrected
1.437
GLE / Morgenstern-Price
1.437

Entity Information

Circular - Grid

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1151 0, 1000 800, 1000 800, 1064 800, 1353 800, 1355 721, 1354 273, 1202 252, 1201 133, 1162 127, 1162 96, 1151 88, 1147 84, 1147 76, 1151 36, 1152
Material Boundary	133, 1162 137.374, 1160.54 298, 1107 318, 1107 467, 1057 800, 1064
Material Boundary	137.374, 1160.54 252, 1199 273, 1200 721, 1352 800, 1353

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	137.374, 1160.54 141.126, 1160.54 298, 1108 318, 1108 467, 1058 800, 1065	Assigned to: MSW Liner (Floor) Liner (Sideslopes)

Non-Circular - Cuckoo

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1151 0, 1000 800, 1000 800, 1064 800, 1353 800, 1355 721, 1354 273, 1202 252, 1201 133, 1162 127, 1162 96, 1151 88, 1147 84, 1147 76, 1151 36, 1152
Material Boundary	133, 1162 137.374, 1160.54 298, 1107 318, 1107 467, 1057 800, 1064
Material Boundary	137.374, 1160.54 252, 1199 273, 1200 721, 1352 800, 1353

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	137.374, 1160.54 141.126, 1160.54 298, 1108 318, 1108 467, 1058 800, 1065	Assigned to: MSW Liner (Floor) Liner (Sideslopes)

Seismic - Cuckoo

Shared Entities

Type	Coordinates (x,y)
External Boundary	0, 1151 0, 1000 800, 1000 800, 1064 800, 1353 800, 1355 721, 1354 273, 1202 252, 1201 133, 1162 127, 1162 96, 1151 88, 1147 84, 1147 76, 1151 36, 1152
Material Boundary	133, 1162 137.374, 1160.54 298, 1107 318, 1107 467, 1057 800, 1064
Material Boundary	137.374, 1160.54 252, 1199 273, 1200 721, 1352 800, 1353

Scenario-based Entities

Type	Coordinates (x,y)	Master Scenario
Piezoline	137.374, 1160.54 141.126, 1160.54 298, 1108 318, 1108 467, 1058 800, 1065	Assigned to: MSW Liner (Floor) Liner (Sideslopes)

Appendix E-2

Soil Testing Results

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event / Invoice No. 27460504 Lab No. 1
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type / Use of Material NATIVE
Sample Source / Location COMPOSITE
Reference:

Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch. / Engr. VECTOR ENGINEERING
Supplier / Source NATIVE
Source / Location Desig. By C.ANDEREGG/WTI Date 10/14/96

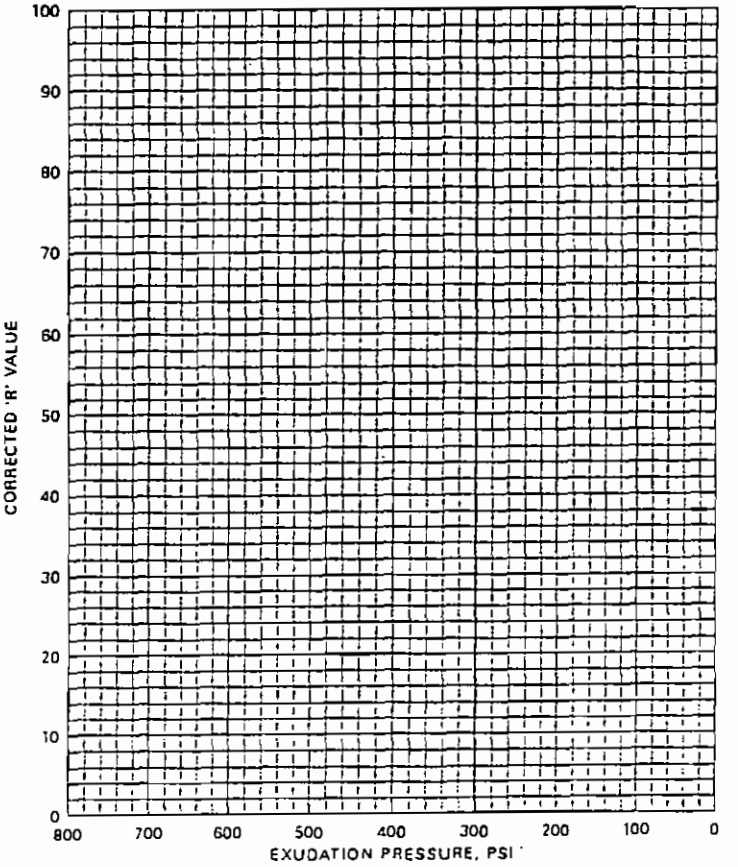
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2	100		
1 1/2	95		
1 1/8			
1	90		
3/4	86		
1/2	80		
3/8	74		
1/4	64		
NO. 4	57		
8	43		
10	41		
16	33		
30	24		
40	21		
50	18		
100	13		
FINER THAN NO. 200 ☐ ASTM D1140 ☒ ASTM C117 ☐ AASHTO T11	8.8		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO. 40
METHOD ☐ A ☐ B

SOIL CLASSIFICATION
☒ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL SP-SM
NAME SAND, WITH SILT AND GRAVEL

Comments:

Copies To: CLIENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

REVIEWED BY Lee Anderson

Western Technologies Inc.
The Quality People
Since 1955

1514 Gold Rush Road, C258
Bullhead City, Arizona 86442
(520) 758-8378 • fax 758-1666

LABORATORY REPORT ON SOILS OR AGGREGATES

Client VECTOR ENGINEERING
EVAN NIKIRK
1601 FARIVIEW AVENUE, SUITE H
CARSON CITY, NEVADA 89701

Project MOHAVE VALLEY LANDFILL
Contractor N/A
Type / Use of Material NATIVE
Sample Source / Location UNCEMENTED NATIVE
Reference:

Date of Report NOVEMBER 7, 1996
Job No. 2746JC218
Event / Invoice No. 27460504 Lab No. 2
Authorized By EVAN NIKIRK Date 10/11/96
Sampled By C.ANDEREGG/WTI Date 10/14/96
Submitted By C.ANDEREGG/WTI Date 10/14/96
Location EL RODEO ROAD/FORT MOJAVE, ARIZONA
Arch. / Engr. VECTOR ENGINEERING
Supplier / Source NATIVE
Source / Location Desig. By C.ANDEREGG/WTI Date 10/14/96

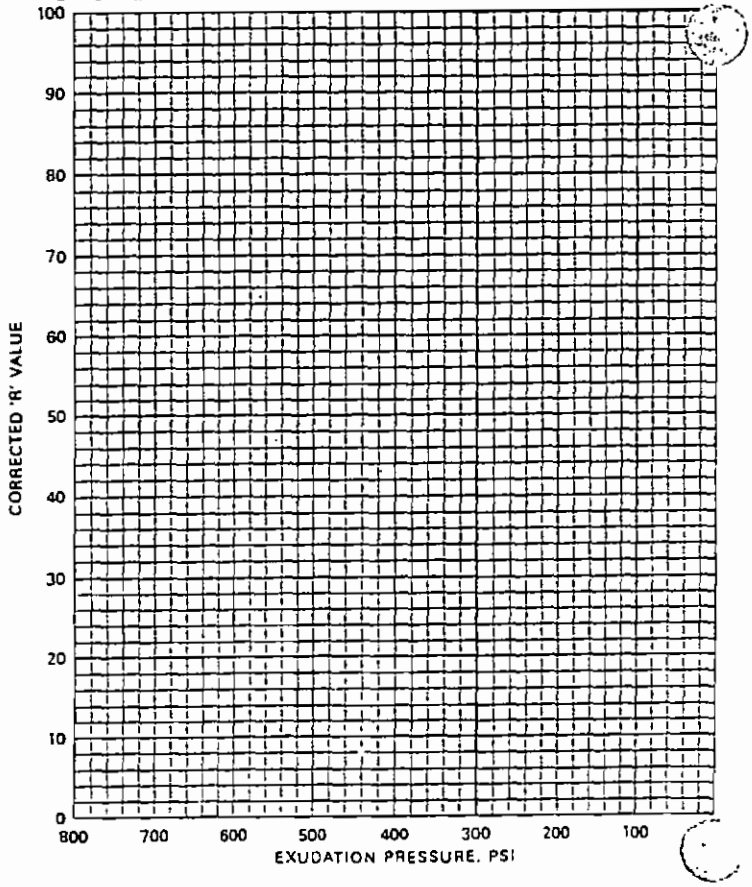
TEST RESULTS

SIEVE ANALYSIS ☒ ASTM C136 ☐ AASHTO T27 ☐

SIEVE SIZE	ACCUMULATIVE % PASSING	SPECIFICATION	GRADING AS TESTED
3 IN.			
2 1/2			
2			
1 1/2			
1 1/8			
1			
3/4	100		
1/2	94		
3/8	81		
1/4	53		
NO. 4	41		
8	27		
10	24		
16	19		
30	13		
40	10		
50	8		
100	4		
FINER THAN NO. 200 ☒ ASTM D1140 ☐ ASTM C117 ☐ AASHTO T11	2.3		

CORRECTED RESISTANCE 'R' VALUE AT 300 PSI EXUDATION PRESSURE → _____

SPECIMEN	A	B	C
COMPACTOR PRESSURE, PSI			
MOISTURE AT COMPACTION, %			
DRY DENSITY, PCF			
CORRECTED 'R' VALUE			
EXUDATION PRESSURE, PSI			
EXPANSION DIAL READING X 10^{-4}			
EXPANSION, PSF (DIAL X 4.33)			



LIQUID & PLASTIC PROPERTIES ☐ ASTM D4318 ☐ AASHTO T89 & T90

	RESULT	SPECIFICATION
LIQUID LIMIT		
PLASTIC LIMIT		
PLASTICITY INDEX		

SAMPLE AIR DRIED: ☐ YES ☐ NO
ESTIMATED % RETAINED ON NO. 40
METHOD ☐ A ☐ B

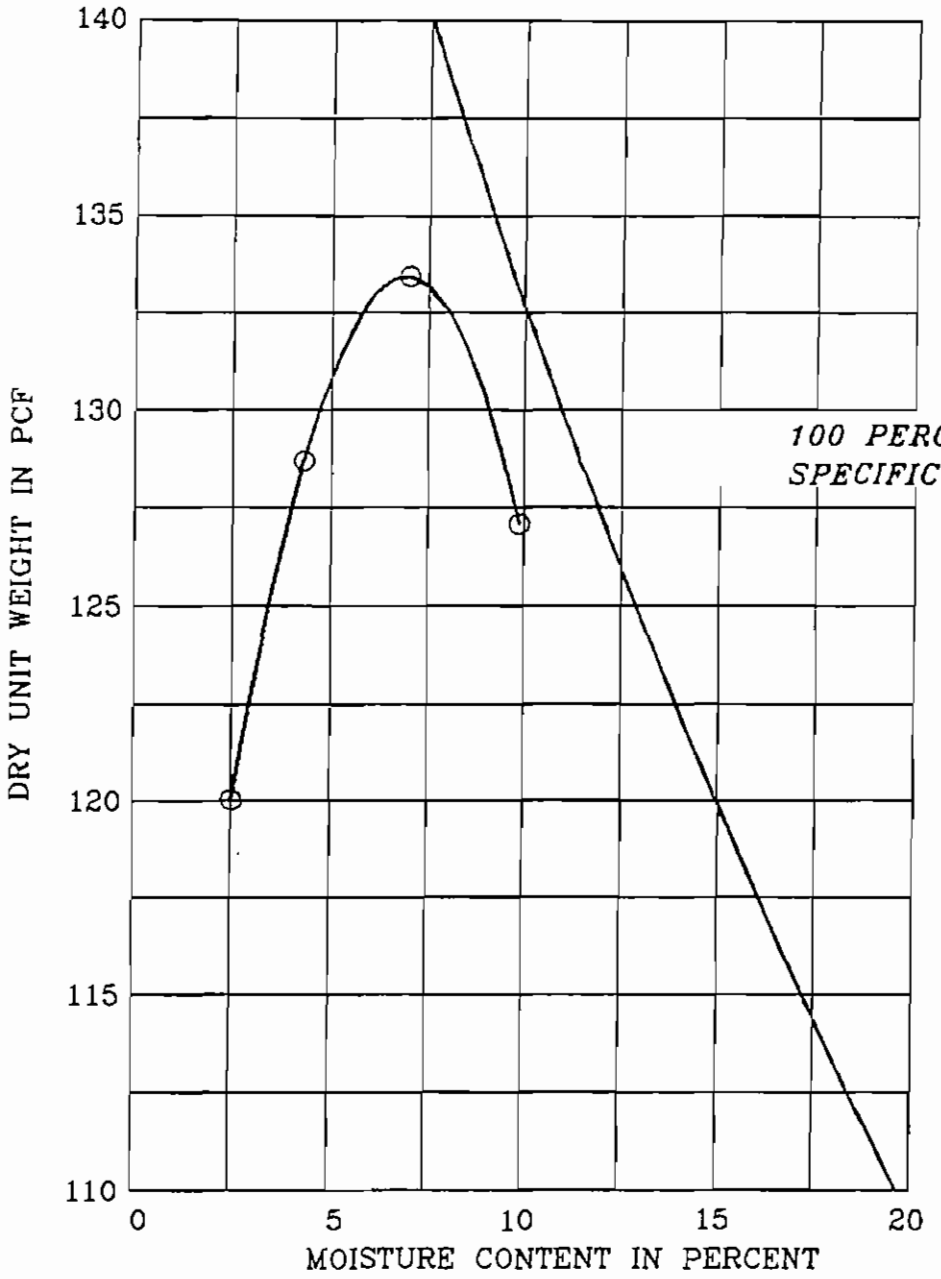
SOIL CLASSIFICATION
☐ ASTM D2487
☐ AASHTO M145
☐ ASTM D2488 VISUAL/MANUAL
GROUP SYMBOL
NAME

Comments:

Copies To: CLENT (1)

LABORATORY TEST RESULTS REPORTED HEREIN APPLY ONLY TO THE SPECIFIC SAMPLE ON WHICH THE TEST WAS RUN. THE ABOVE SERVICES AND REPORT WERE PERFORMED PURSUANT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN WT AND CLIENT. WT WARRANTS THAT THIS WAS PERFORMED UNDER THE APPROPRIATE STANDARD OF CARE, INCLUDING THE SKILL AND JUDGMENT THAT IS REASONABLY EXPECTED FROM SIMILARLY SITUATED PROFESSIONALS. NO OTHER WARRANTY, GUARANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS INCLUDED OR INTENDED.

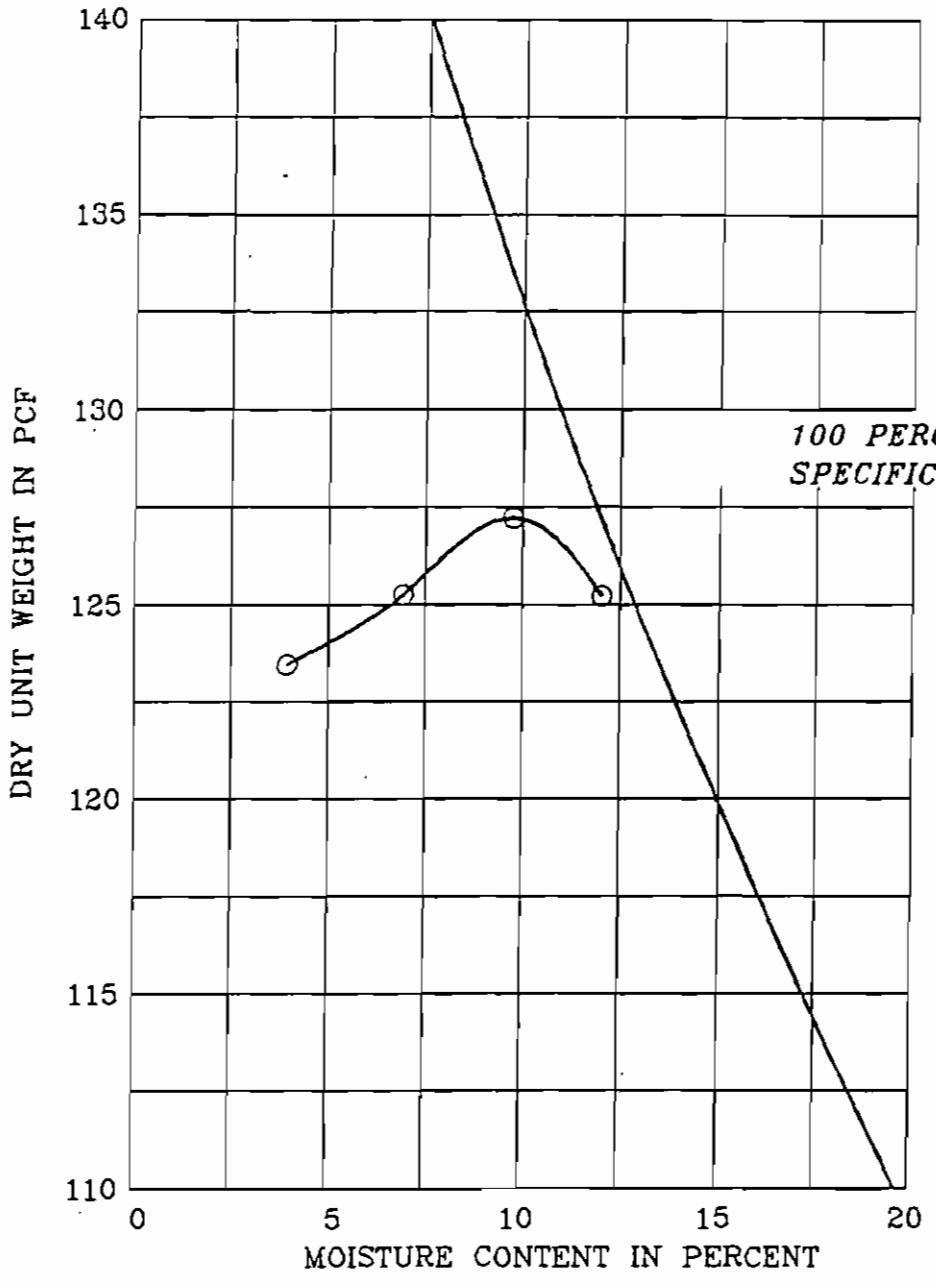
REVIEWED BY C. Anderegg



SYMBOL	SAMPLE LOCATION	DEPTH (ft)	DESCRIPTION	TEST METHOD	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
O	Composite			ASTM-D1557C	7.0	133.4

Remark :

ROJ. NO.965014.02	MESA DISPOSAL - MOHAVE VALLEY LANDFILL
Vector Engineering	COMPACTION TEST LAB FILE 497B



SYMBOL	SAMPLE LOCATION	DEPTH (ft)	DESCRIPTION	TEST METHOD	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)
O	Clean Sand and Gravel		Well-Graded Gravel w/Sand	ASTM D1557C	9.8	127.2

Remark :

PROJ. NO.965014.02	MESA DISPOSAL INC. - MOHAVE VALLEY LANDFILL
Vector Engineering	COMPACTION TEST LAB FILE 497

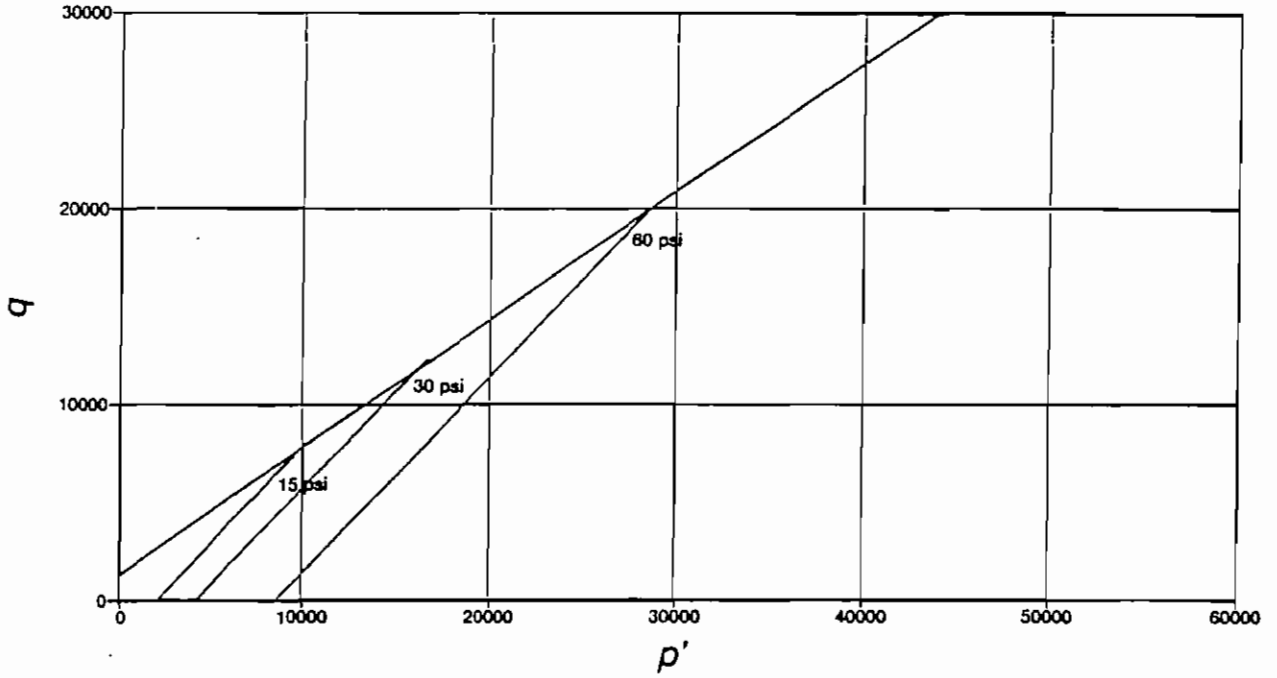
VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

TRIAXIAL COMPRESSION (Consolidated-Drained)

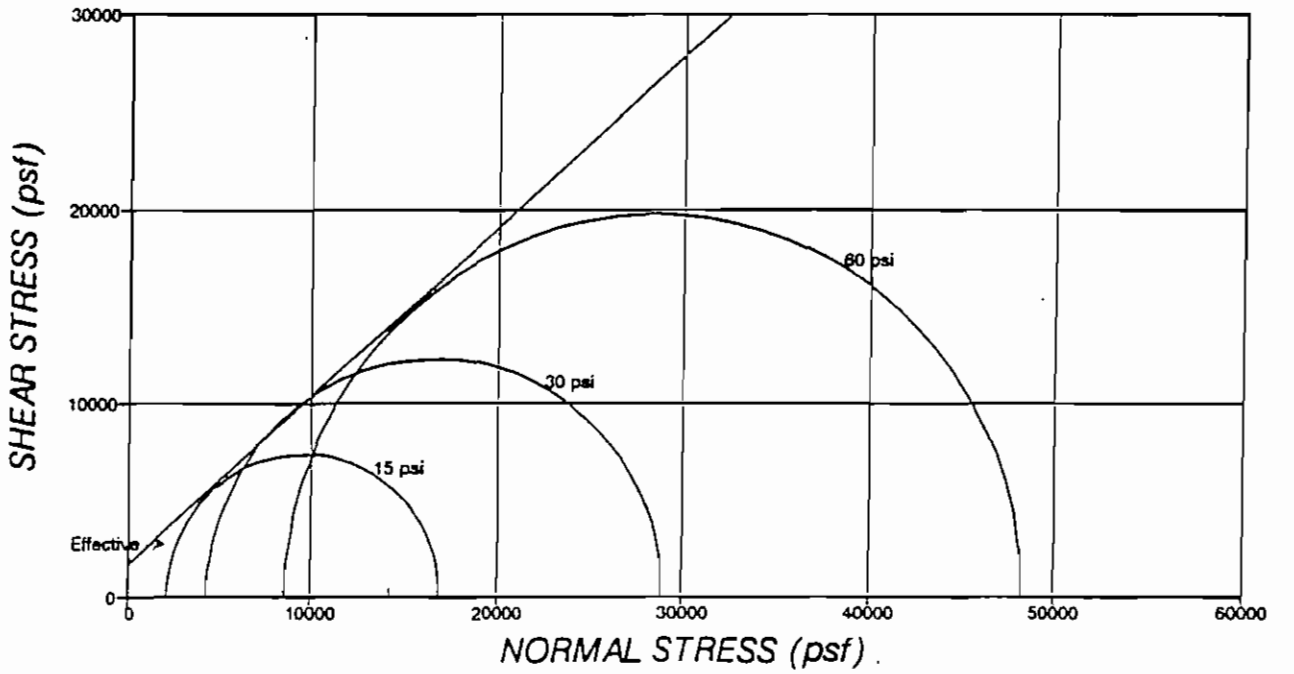
p' - q Diagram and Mohr Stress Circles

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A

PEAK VALUES AT APPROXIMATELY: MAX. DEVIATOR



a (deg.)= 33.2 phi = 40.9 c (psf) = 1240



Effective Stress: phi = 41.1 c (psf) = 1687 Total Stress: phi = 41.1 c (psf) = 1687

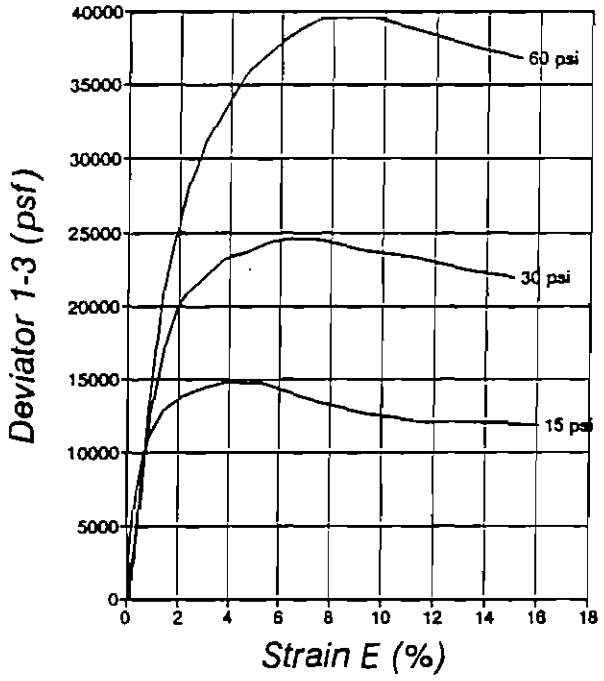
By accepting the data and results represented on this page, Client agrees to limit the liability of Vector Engineering, Inc. from Client and all other parties for claims arising out of the use of this data to the cost for the respective test(s) represented hereon, and Client agrees to indemnify and hold harmless Vector from and against all liability in excess of the aforementioned limit.

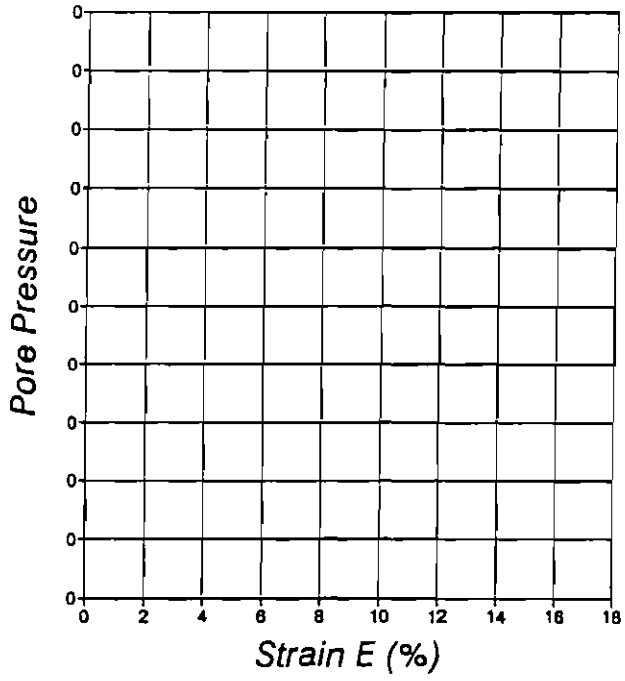
VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

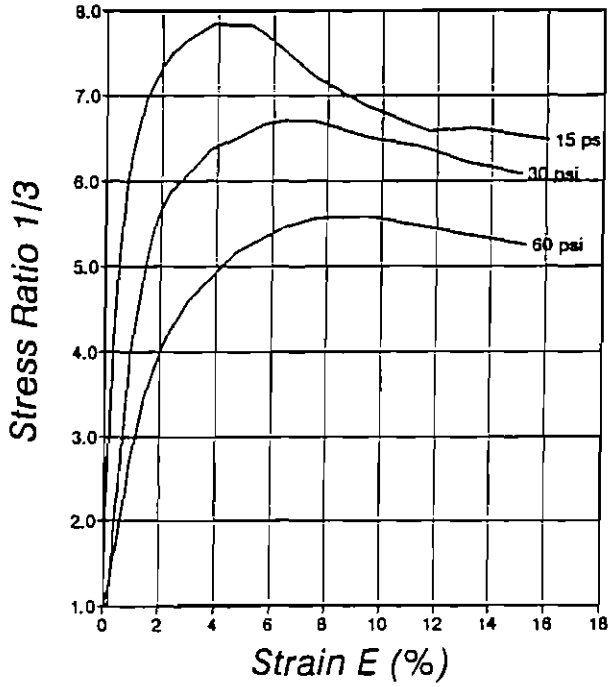
TRIAXIAL COMPRESSION (Consolidated-Drained)

Strain Diagrams

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A







By accepting the data and results represented on this page, Client agrees to limit the liability of Vector Engineering, Inc. from Client and all other parties for claims arising out of the use of this data to the cost for the respective test(s) represented hereon, and Client agrees to indemnify and hold harmless Vector from and against all liability in excess of the aforementioned limit.

VECTOR ENGINEERING, INC.
12438 Loma Rica Dr., Suite C, Grass Valley, CA 95945
(916) 272-2448 Fax: (916) 272-8553

TRIAXIAL COMPRESSION (Consolidated-Drained)

Test Summary

Client Name: Mesa Disposal, Inc. Project: Mohave Valley Landfill; No. 965014.02 Lab Log: 497A

Stage No.	Lab I.D.	Sample I.D.	Depth (ft.)	Initial Moisture Content (%)	Intial Dry Density (pcf)
1	497A	Clean Sand & Gravel		3.7	114
2	497B	Clean Sand & Gravel		3.8	115
3	497C	Clean Sand & Gravel		3.8	114
4					

PEAK VALUES AT APPROXIMATELY: MAX. DEVIATOR

Stage No.	Effective Confining Stress (psi)	Effective Confining Stress (psf)	Deviator Stress (psf)	Pore Pressure (psf)	Effective Axial Stress (psf)	Effective Lateral Stress (psf)	
1	15	2160	14754	0	16914	2160	
2	30	4320	24644	0	28964	4320	
3	60	8640	39634	0	48274	8640	
4							

Appendix E-3

Soil Loss Calculations

REVISED UNIVERSAL SOIL LOSS EQUATION (RUSLE)
MOHAVE VALLEY LANDFILL
FORT MOHAVE, ARIZONA

This document was prepared by SCS Engineers (SCS) on behalf of Mohave County, Arizona. Soil loss calculations using the Revised Universal Soil Loss Equation (RUSLE), as well as a description of the Universal Soil Loss Equation (USLE) and RUSLE, are presented below.

RUSLE

The USLE (Wischmeier and Smith, 1965) was developed as an empirical equation by the National Resources Conservation Service and the United States Department of Agriculture to estimate average soil loss due to rainfall runoff. The equation only applies to sheet and rill erosion and does not account for soil losses due to gullying. Average erosion from initial mobilization in a watershed is computed. The USLE and the RUSLE do not include the effects of soil redeposition.

The RUSLE (Renard, 1987) was developed based on additional research and experiments that allowed scientists to estimate soil erosion with greater accuracy. Although the soil loss formula remains the same, improvements were made in determining factors or inputs into the equation. Specifically, the rainfall and run-off factor 'R' was greatly improved on the west coast of the United States due to a greater number of weather stations and development of more accurate isoerodent maps. The soil erosion factor 'K' was also improved to account for the freezing and thawing of soil, especially in the northeastern United States.

The Revised Universal Soil Loss Equation is expressed as:

$$A = R*K*LS*C*P$$

Where:

A = the computed soil loss per unit area. In practice, these are usually selected so that they are computed in tons per acre per year, but other units can be selected.

R = the annual rainfall erosion index

K = the soil erosion factor – the measure of the susceptibility of soil particles to detachment and transport by rainfall and runoff.

LS = the slope length gradient factor – the combined effect of soil erodibility due to slope length and slope gradient per unit area.

C = the cover and management factor – the ratio of soil-loss from an area with specified cover and management practices.

P = the support practice factor – the ratio of soil loss due to practices that may reduce the velocity of runoff by plowing, tilling, or other factors.

DATA SOURCES

Inputs to the RUSLE were made by SCS based on EPA guidance, site-specific information and our best engineering judgment. RUSLE acceptance criteria and formula inputs used by SCS are as follows:

A = In order to minimize the future maintenance and potential for gully development, the maximum recommended annual rate of erosion is 2 tons/acre/year (U.S. EPA, July 1982).

R = For this updated analysis, SCS used an R factor of approximately 11 for the Mohave Valley Landfill (Landfill), located in Mohave County, based on the Low Erosivity Waiver (LEW) results from the U.S. EPA website for the four-season period from March 19, 2024, through March 20, 2025, at site coordinates latitude 35.0195 and longitude −114.5104. See Attachment 1 for additional details.

K = The soil erodibility factor (K) was obtained from the NRCS Web Soil Survey (SSURGO) RUSLE2 Related Attributes report. Two soil components occur within the landfill footprint: Chuckawalla (KF = 0.55) occupying 65 percent of the mapped area and Riverbend (KF = 0.24) occupying 25 percent. A representative K factor was calculated as an area-weighted average using the expression K = (0.55 × 0.65) + (0.24 × 0.25) ≈ 0.42. This value (K = 0.42) was used in the RUSLE analysis. See Attachment 2 for additional details and the NRCS output.

C = The cover-management factor C = 0.45 was obtained from USDA Agriculture Handbook 537, "Predicting Rainfall Erosion Losses" (Wischmeier and Smith, 1978), Table 10 – Factor C for permanent pasture, range, and idle land Attachment 3. Table 10 reports C ≈ 0.45 for "no appreciable canopy" with 0 percent ground cover, which is representative of the sparsely vegetated desert shrub conditions at the Landfill.

LS = The LS factor is defined as the slope length gradient factor. The LS factor was calculated as follows:

$$LS = \left(\frac{65.41 \times s^2}{s^2 + 10{,}000} + \frac{4.56 \times s}{\sqrt{s^2 + 10{,}000}} + 0.065\right)\left(\frac{l}{72.5}\right)^m$$

Where:

- l = length in feet along slope
- s = slope in %
- m = 0.5 when the slope is greater than 5%

Rather than calculating the LS value for each area of the Landfill Site, LS was calculated for the worst-case scenario at the site. The greatest side slope at the site is 33% (3:1 slope) with the maximum slope length approximately 200 feet. The top deck has a maximum slope length of approximately 750 feet with a slope of 5 percent from east to west.

Using the 33-percent side slope and a slope length of 200 feet, the LS factor is calculated as LS = 13.1. For comparison, the top deck, with a much longer slope length of 750 feet but a gentler 5-percent slope, has a significantly lower LS factor of approximately LS = 1.5.

P = The P Factor is also know as a conservation factor. The P factor was determined to be 0.9. This assumes that the slopes at the site will be track walked vertically by a bulldozer or similar piece of equipment.

RESULTS

To determine the actual soil loss at the Landfill, all of these variables were plugged into the universal soil loss equation to calculate. The estimated soil loss was calculated as follows:

Side Slopes

A = R*K*LS*C*P
A = (11)*(0.42)*(13.1)*(0.45)*(0.9)
A = 24.5 tons/acre/year

Top Deak
A = R*K*LS*C*P
A = (11)*(0.42)*(1.5)*(0.45)*(0.9)
A = 2.8 tons/acre/year

CONVERSION TO SOIL THICKNESS OVER 5 YEARS

Assuming a representative topsoil unit weight of 120 lb/ft^3 and using 1 ton = 2,000 lb and 1 acre = 43,560 ft^2:

- ft^3/acre/year = (tons/acre/year × 2,000 lb/ton) / (120 lb/ft^3)
- Depth (ft/year) = (ft^3/acre/year) / 43,560 ft^2/acre

<u>Side Slopes</u>

Annual loss:
- Soil loss = 24.5 tons/acre/year
- Volume = 24.5 × 2,000 / 120 ≈ 408.5 ft^3/acre/year
- Depth = 408.5 / 43,560 ≈ 0.0094 ft/year ≈ 0.11 in/year

Five-year cumulative depth:
- 5-year depth ≈ 5 × 0.0094 ft ≈ 0.047 ft
- 0.047 ft × 12 ≈ 0.56 inches

Example table for side slopes (constant annual loss):

Year	Soil Loss (tons/acre)	Soil Loss (ft^3/acre)	Depth (ft)	Cumulative Depth (ft)	Cumulative Depth (in)
1	24.5	408.5	0.0094	0.0094	0.11
2	24.5	408.5	0.0094	0.0188	0.23
3	24.5	408.5	0.0094	0.0282	0.34
4	24.5	408.5	0.0094	0.0376	0.45
5	24.5	408.5	0.0094	0.0469	0.56

Top Deck

Annual loss:

- Soil loss = 2.8 tons/acre/year
- Volume = 2.8 × 2,000 / 120 ≈ 46.8 ft^3/acre/year
- Depth = 46.8 / 43,560 ≈ 0.0011 ft/year ≈ 0.013 in/year

Five-year cumulative depth:

- 5-year depth ≈ 5 × 0.0011 ft ≈ 0.0054 ft
- 0.0054 ft × 12 ≈ 0.064 inches

Example table for top deck:

Year	Soil Loss (tons/acre)	Soil Loss (ft^3/acre)	Depth (ft)	Cumulative Depth (ft)	Cumulative Depth (in)
1	2.8	46.8	0.0011	0.0011	0.013
2	2.8	46.8	0.0011	0.0021	0.026
3	2.8	46.8	0.0011	0.0032	0.039
4	2.8	46.8	0.0011	0.0043	0.052
5	2.8	46.8	0.0011	0.0054	0.064

CONCLUSIONS

According to the RUSLE predicted erosion rates for the landfill side slopes (about 24.5 tons/acre/year) and top deck (about 2.8 tons/acre/year) are greater than this EPA required rate; however, when expressed as vertical soil loss, these rates correspond to only about 0.11 inches/year (side slopes) and 0.013 inches/year (top deck), or approximately 0.6 inches and 0.06 inches, respectively, over a 5-year period. Relative to the thickness of the landfill cover, these losses represent only a small fraction of the total soil profile and are not expected to significantly affect cover performance. In addition, the landfill is inspected and maintained routinely (e.g., repair and maintenance of drainage channels and final cover), which further reduces the potential for gully development. Accordingly, while the calculated RUSLE values exceed the generalized EPA criterion, the predicted erosion is considered manageable and acceptable for this site with ongoing maintenance.

Attachment 1

An official website of the United States government

Rainfall Erosivity Factor Calculator for Small Construction

Introduction

EPA's stormwater regulations allow NPDES permitting authorities to waive NPDES permitting requirements for stormwater discharges from small construction sites if:

- the construction site disturbs less than five acres, and
- the rainfall erosivity factor ("R" in the revised universal soil loss equation, or RUSLE) value is less than five during the period of construction activity.

If your small construction project is located in an area where EPA is the permitting authority and your R factor is less than five, you qualify for a low erosivity waiver (LEW) from NPDES stormwater permitting. If your small construction project does not qualify for a waiver, then NPDES stormwater permit coverage is required. Follow the steps below to calculate your R-Factor.

LEW certifications are submitted through the NPDES eReporting Tool or "CGP-NeT". Several states that are authorized to implement the NPDES permitting program also accept LEWs. Check with your state NPDES permitting authority for more information.

- Submit your LEW through EPA's eReporting Tool <https://www.epa.gov/npdes/submitting-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-lew-under>
- List of states, Indian country, and territories where EPA is the permitting authority (pdf) <https://www.epa.gov/system/files/documents/2022-01/2022-cgp-final-appendix-b-areas-of-permit-cover.pdf>
- Construction Rainfall Erosivity Waiver Fact Sheet <https://www.epa.gov/npdes/construction-rainfall-erosivity-waiver-fact-sheet>
- Small Construction Waivers and Instructions (pdf) <https://www.epa.gov/system/files/documents/2022-01/2022-cgp-final-appendix-c-waivers.pdf>

The R-factor calculation can also be integrated directly into custom applications using the R-Factor web service <https://epa.gov/api-docs/>.

Steps to Calculate an R Factor for your Small Construction Project

1 Select the estimated start and end dates of construction by clicking the calendar icons below and using the dropdown calendar. The period of construction activity begins at initial earth disturbance and ends with final stabilization.

Start Date:

03/19/2024

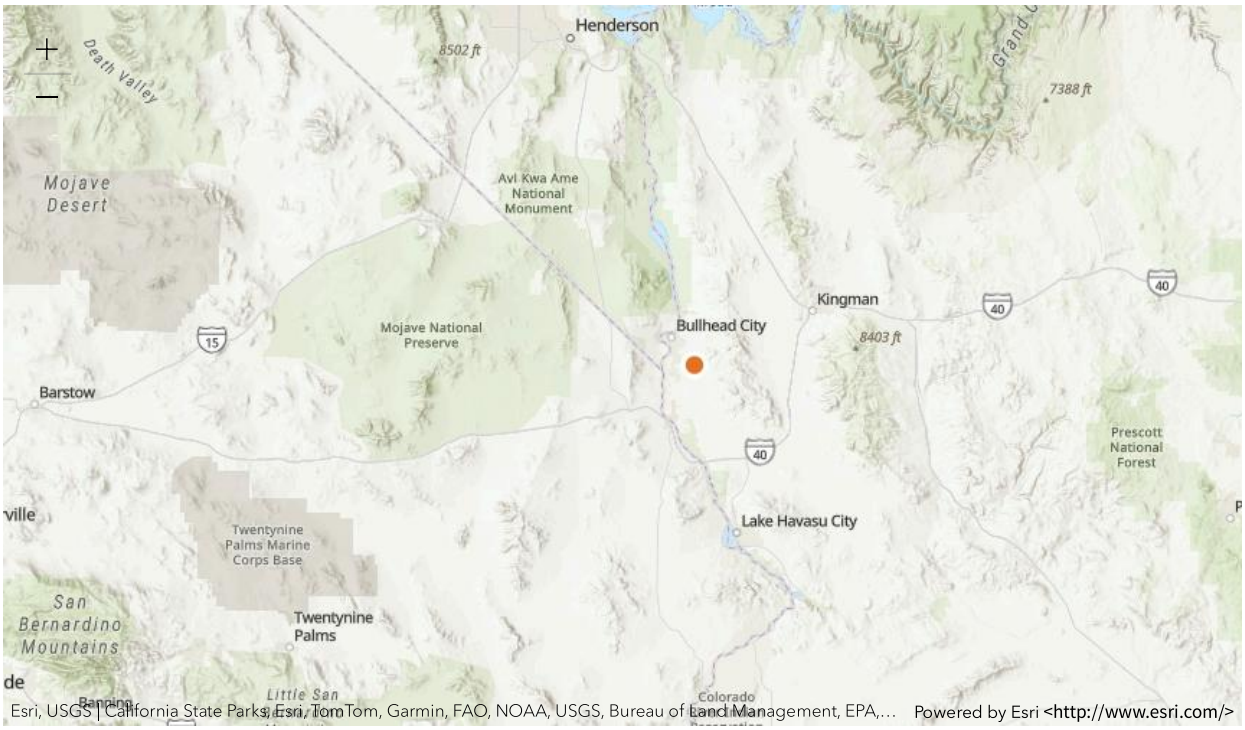
End Date:

03/20/2025

2 Locate your small construction project by entering the address in the search box or by clicking on the map.

Location:

3999 E El Rodeo Rd, Fort Mohave, AZ 86426 **Search**



3 Click the "Calculate R Factor" button below.

Calculate R Factor

Facility Information

Start Date: 03/19/2024	**Latitude:** 35.0195
End Date: 03/20/2025	**Longitude:** -114.5104

Calculation Results

Rainfall erosivity factor (R Factor) = **10.71**

A rainfall erosivity factor of 5.0 or greater has been calculated for your site's period of construction.

You do NOT qualify for a waiver from NPDES permitting requirements and must seek Construction General Permit (CGP) coverage. If you are located in an area where EPA is the permitting authority (pdf) <https://www.epa.gov/system/files/documents/2022-01/2022-cgp-final-appendix-b-areas-of-permit-cover.pdf>, you must submit a Notice of

Intent (NOI) through the NPDES eReporting Tool (NeT) <https://www.epa.gov/npdes/submitting-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-lew-under>.Otherwise, you must seek coverage under your state's CGP.

For questions or comments, email EPA's CGP staff at cgp@epa.gov.

Attachment 2

RUSLE2 Related Attributes

This report summarizes those soil attributes used by the Revised Universal Soil Loss Equation Version 2 (RUSLE2) for the map units in the selected area. The report includes the map unit symbol, the component name, and the percent of the component in the map unit. Soil property data for each map unit component include the hydrologic soil group, erosion factor Kf for the surface horizon, erosion factor T, and the representative percentage of sand, silt, and clay in the mineral surface horizon. Missing surface data may indicate the presence of an organic layer.

Report—RUSLE2 Related Attributes

Soil properties and interpretations for erosion runoff calculations. The surface mineral horizon properties are displayed or the first mineral horizon below an organic surface horizon. Organic horizons are not displayed.

RUSLE2 Related Attributes–Mohave County, Arizona, Southern Part

Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value		
						% Sand	% Silt	% Clay
29—Chuckawalla-Riverbend complex, 2 to 15 percent slopes								
Chuckawalla	65	56	B	.55	5	32.3	56.2	11.5
Riverbend	25	56	A	.24	5	66.0	23.0	11.0

Data Source Information

Soil Survey Area: Mohave County, Arizona, Southern Part
Survey Area Data: Version 21, Aug 26, 2025

Attachment 3

tion and developmental areas can be obtained from table 5 if good judgment is exercised in comparing the surface conditions with those of agricultural conditions specified in lines of the table. Time intervals analogous to cropstage periods will be defined to begin and end with successive construction or management activities that appreciably change the surface conditions. The procedure is then similar to that described for cropland.

Establishing vegetation on the denuded areas as quickly as possible is highly important. A good sod has a **C** value of 0.01 or less (table 5-B), but such a low **C** value can be obtained quickly only by laying sod on the area, at a substantial cost. When grass or small grain is started from seed, the probable soil loss for the period while cover is developing can be computed by the procedure outlined for estimating cropstage-period soil losses. If the seeding is on topsoil, without a mulch, the soil loss ratios given in line 141 of table 5 are appropriate for cropstage **C** values. If the seeding is on a desurfaced area, where residual effects of prior vegetation are no longer significant, the ratios for periods SB, 1 and 2 are 1.0, 0.75 and 0.50, respectively, and line 141 applies for cropstage 3. When the seedbed is protected by a mulch, the pertinent mulch factor from the upper curve of figure 6 or table 9 is applicable until good canopy cover is attained. The combined effects of vegetative mulch and low-growing canopy are given in figure 7. When grass is established in small grain, it can usually be evaluated as established meadow about 2 mo after the grain is cut.

C Values for Pasture, Range, and Idle Land

Factor **C** for a specific combination of cover conditions on these types of land may be obtained from table 10 (*57*). The cover characteristics that must be appraised before consulting this table are defined in the table and its footnotes. Cropstage periods and **EI** monthly distribution data are generally not necessary where perennial vegetation has become established and there is no mechanical disturbance of the soil.

Available soil loss data from undisturbed land were not sufficient to derive table 10 by direct comparison of measured soil loss rates, as was done for development of table 5. However, analyses of the assembled erosion data showed that the research information on values of **C** can be extended to completely different situations by combining subfactors that evaluate three separate and distinct, but interrelated, zones of influence: (a) vegetative cover in direct contact with the soil surface, (b) canopy cover, and (c) residual and tillage effects.

Subfactors for various percentages of surface cover by mulch are given by the upper curve of

TABLE 10.—*Factor* **C** *for permanent pasture, range, and idle land*[1]

Vegetative canopy		Cover that contacts the soil surface						
			Percent ground cover					
Type and height[2]	Percent cover[3]	Type[4]	0	20	40	60	80	95+
No appreciable canopy		G	0.45	0.20	0.10	0.042	0.013	0.003
		W	.45	.24	.15	.091	.043	.011
Tall weeds or short brush with average drop fall height of 20 in	25	G	.36	.17	.09	.038	.013	.003
		W	.36	.20	.13	.083	.041	.011
	50	G	.26	.13	.07	.035	.012	.003
		W	.26	.16	.11	.076	.039	.011
	75	G	.17	.10	.06	.032	.011	.003
		W	.17	.12	.09	.068	.038	.011
Appreciable brush or bushes, with average drop fall height of 6½ ft	25	G	.40	.18	.09	.040	.013	.003
		W	.40	.22	.14	.087	.042	.011
	50	G	.34	.16	.08	.038	.012	.003
		W	.34	.19	.13	.082	.041	.011
	75	G	.28	.14	.08	.036	.012	.003
		W	.28	.17	.12	.078	.040	.011
Trees, but no appreciable low brush. Average drop fall height of 13 ft	25	G	.42	.19	.10	.041	.013	.003
		W	.42	.23	.14	.089	.042	.011
	50	G	.39	.18	.09	.040	.013	.003
		W	.39	.21	.14	.087	.042	.011
	75	G	.36	.17	.09	.039	.012	.003
		W	.36	.20	.13	.084	.041	.011

[1] The listed **C** values assume that the vegetation and mulch are randomly distributed over the entire area.

[2] Canopy height is measured as the average fall height of water drops falling from the canopy to the ground. Canopy effect is inversely proportional to drop fall height and is negligible if fall height exceeds 33 ft.

[3] Portion of total-area surface that would be hidden from view by canopy in a vertical projection (a bird's-eye view).

[4] G: cover at surface is grass, grasslike plants, decaying compacted duff, or litter at least 2 in deep.

W: cover at surface is mostly broadleaf herbaceous plants (as weeds with little lateral-root network near the surface) or undecayed residues or both.

Appendix E-4

Floor Settlement Analysis

December 9, 2025

File No. 01216008.10

MEMORANDUM

TO: Michael Bradford, P.E.

FROM: Evan T. Guignon, P.E.

SUBJECT: Mohave Valley Landfill – Waste and Subgrade Settlement Potential Analysis

OVERVIEW

SCS Engineers has prepared a Type IV Modification to the Mohave Vally Landfill's (MVL) Solid Waste Facilities Plan (SWFP) on behalf of Mohave County, Arizona. The Type IV SWFP modification proposes to revise the permitted final waste grades to include a vertical expansion and modify the base grades to incorporate a geosynthetic liner system and leachate collection and recovery system for the future currently permitted disposal areas. SCS Engineers (SCS) has completed the below settlement potential analysis of the subgrade soil beneath the waste to evaluate whether the anticipated subgrade settlement will adversely impact the liner system or LCRS drainage.

PROFILE LOCATIONS

The settlement analysis is based on two orthogonal cross sections, designated as Profile 1 and Profile 2, which are representative of conditions in the current and future lined areas. Drawing 1 in Attachment 1 depicts the location of the cross sections, along with the proposed subgrade grades for the lined areas.

These profiles were chosen to represent sections starting from the anchor trench all the way to the maximum top deck grades. They were also placed directly on the main leachate collection system flow line and perpendicular to the main leachate collection system flow line to analyze how much settlement the subgrade may see over time and how that may affect the liquids conveyance of the cells.

The settlement estimates were provided for the base of the proposed liner system as well as the waste itself. Drawings 2 and 3 provide cross sections which show the existing soil fill, the proposed liner floor grades and the proposed final cover elevations for both Profiles 1 and 2. The amount of soil cut required to meet subgrade elevations range from 0 feet to 99 feet for Profile 1 and 0 feet to 99 feet for Profile 2. The amount of proposed waste fill for Profile 1 ranges from 0 feet to 288 feet and from 0 feet to 287 feet for Profile 2.

METHODOLOGY OF ANALYSIS

The method of estimating settlement of the subgrade was based on one-dimensional compression methods developed by Sowers (1973), and which is widely applied in the waste industry. Estimated compression of the subgrade as well as new waste fills due to new waste loadings is based on the following relationship:

$S = H * (C_c/(1+e_o))*\log(1+\Delta P/Pi)$.....Sowers (1973)

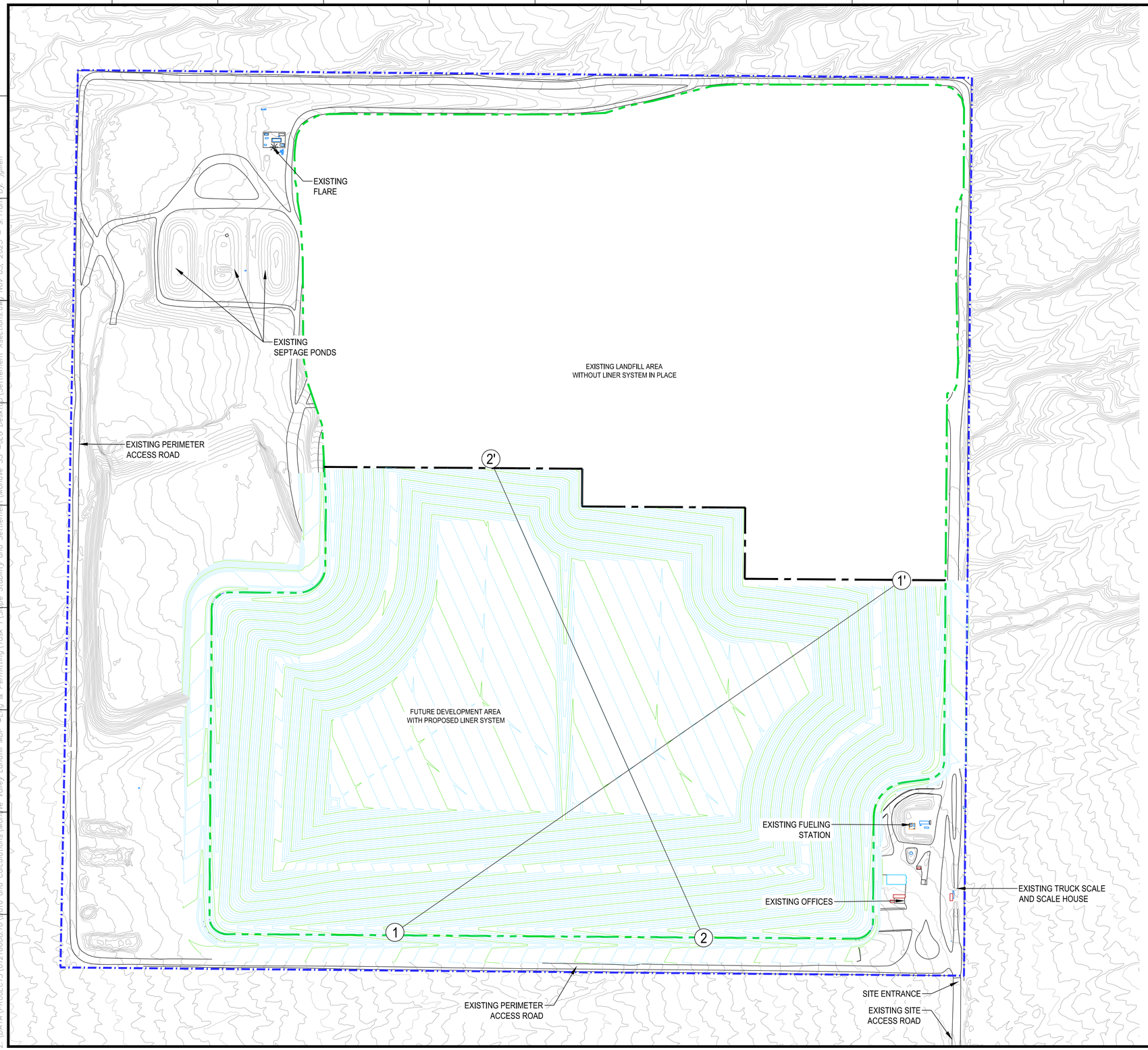
When considering the subgrade settlement, S is the estimated soil compression that occurs due to new waste loading stress ΔP, where H is the thickness of the subgrade soil, e_0 is the subgrade soil void ratio, C_c is the compression index for the subgrade soil, while Pi is the vertical stress at the center (mid-depth) of the existing subgrade 20 feet below base grades.

SETTLEMENT POTENTIAL OF SUBGRADE MATERIALS

Based on our calculations, which are summarized in Attachment 2, we estimate that settlement of the landfill base soils will range from 0 to 0.5 inches for Profile 1 and 0 to 0.8 inches for Profile 2. The maximum subgrade settlement will occur from Station 10+00 to 16+00 along Profile 1 and at Station 14+00 along Profile 2. This amount of settlement is acceptable for the bottom liner system as elongation will be less than 1 percent, well below the allowable 10 percent yield elongation value of HDPE liner. The floor LCRS along Alignment 1 is graded at minimum slope of ~2.5%, the settlement shown calculated on Table 1 for the floor area will reduce the LCRS slope to ~2.4%. This has an insignificant impact on the LCRS drainage as positive drainage is maintained after settlement occurs, thus an acceptable amount of settlement.

Because of the relatively high density of the existing soils to be cut during cell construction and the low density of waste fill, the change in loading at final grades is relatively minimal and results in our estimates of extremely low subgrade settlement.

ATTACHMENT 1 – CRITICAL PROFILE INFORMATION



N

150 0 75 150 300 450

SCALE: 1"=150'

LEGEND

- 1100 — EXISTING TOPOGRAPHY, 2-FT INTERVAL
- 1330 — PROPOSED 10-FT CONTOUR
- PROPOSED 2-FT CONTOUR
- APPROXIMATE LANDFILL PROPERTY BOUNDARY
- APPROXIMATE PERMITTED LIMITS OF WASTE
- BOUNDARY BETWEEN AREA OF EXISTING LANDFILL AND AREA OF FUTURE DEVELOPMENT

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY COOPER AERIAL SURVEYS CO. TOPOGRAPHY DATED 02/05/2024. THE SITE COORDINATE SYSTEM WAS SHIFTED FROM LOCAL COORDINATES TO US STATE PLANE COORDINATE SYSTEM, 1983, BY SOUTHWEST SURVEY SOLUTIONS (S3) ON JUNE 14, 2024. THE CONTROL STATEMENT AND LOCAL HORIZONTAL SITE SETTING WITH CONTROL POINTS ARE SHOWN ON SHEET 2 OF THIS DRAWING SET.
2. NORTH ARROW, THE GRID, AND THE COORDINATES SYSTEM SHOWN HERE ARE REFERENCED TO THE US STATE PLANE 1983 COORDINATE SYSTEM, NAD83 (2011), EPOCH 2010.00.
3. LANDFILL PROPERTY BOUNDARY, PERMITTED LIMITS OF WASTE, CELL BOUNDARIES PROVIDED BY CLIENT "310949XR-SW01-LAYOUT" (AUTOCAD) DATED 8/10/2021.

FOR INFORMATIONAL PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: CROSS SECTION LOCATIONS - SETTLEMENT ANALYSIS

PROJECT TITLE: LANDFILL PERMIT AMENDMENT MOHAVE VALLEY LANDFILL FORT MOHAVE, ARIZONA

CLIENT: MOHAVE VALLEY LANDFILL
3999 EL RODEO ROAD
FORT MOHAVE, AZ 86426

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

PROJ. NO: 01216008.10 T1 | DSN. BY: AAS/MPB | DWN. BY: JLG | CHK. BY: ETG | ACAD FILE: ENGINEERS | APP. BY: MPB

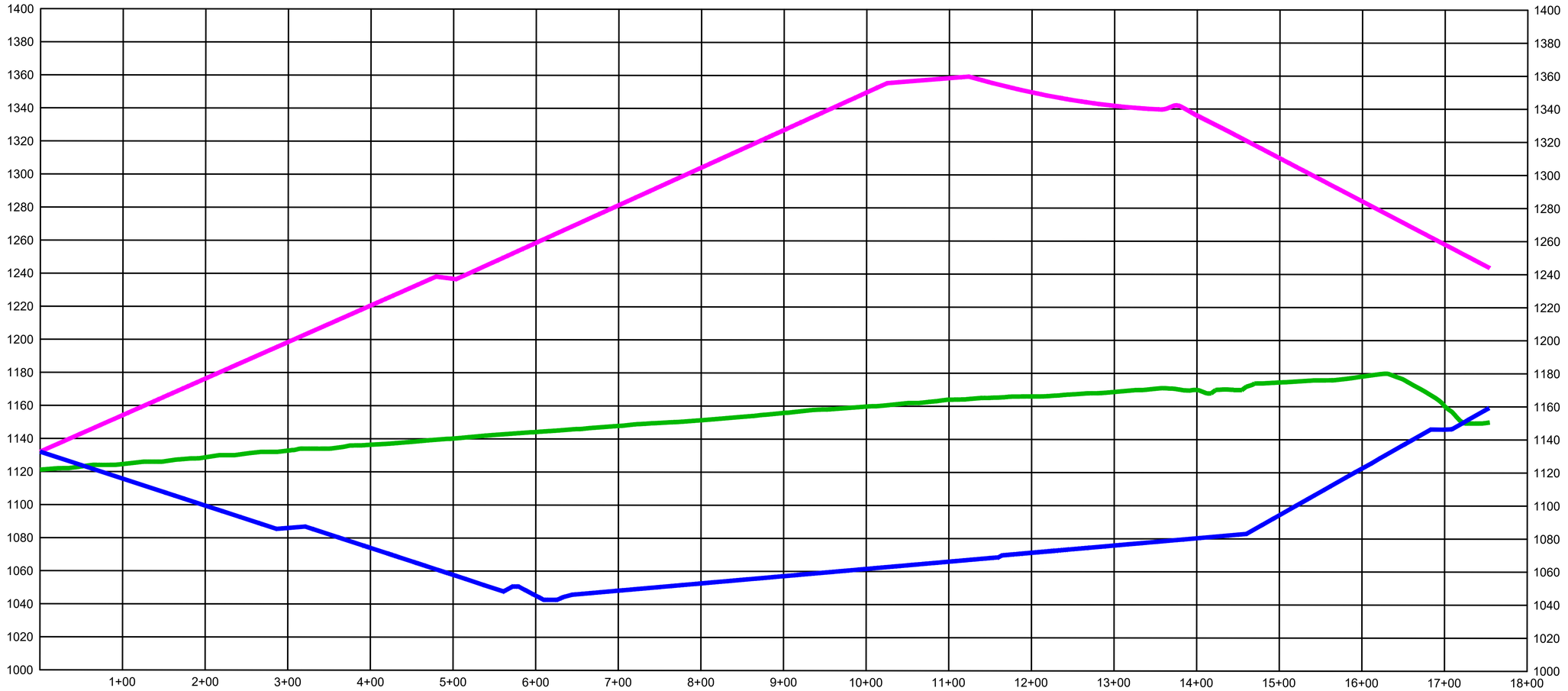
DATE: 11/04/2025

SCALE: AS SHOWN

FIGURE: 1

Z:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Slope Stability and Settlement\Mohave SS - ALG Desktop\Settlement Xsections.dwg Nov 05, 2025 - 9:11am By: jgillen

ALIGNMENT 1 - CROSS SECTION



LEGEND

- PERMITTED TOP OF LINER GRADES
- EXISTING TOPOGRAPHY GRADES
- PROPOSED FINAL COVER GRADES

FOR INFORMATIONAL PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: ALIGNMENT 1 - CROSS SECTION

PROJECT TITLE: LANDFILL PERMIT AMENDMENT
MOHAVE VALLEY LANDFILL
FORT MOHAVE, ARIZONA

CLIENT: MOHAVE VALLEY LANDFILL
3999 EL RODEO ROAD
FORT MOHAVE, AZ 86426

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE, SUITE 118
TEMPE, AZ 85283
(602) 840-2396

PROJ. NO.	01216008.10 T1
DSN. BY:	AAS/MPB
DWN. BY:	JLG
CHK. BY:	ETG
APP. BY:	MPB
ACAD FILE	ENGINEERS

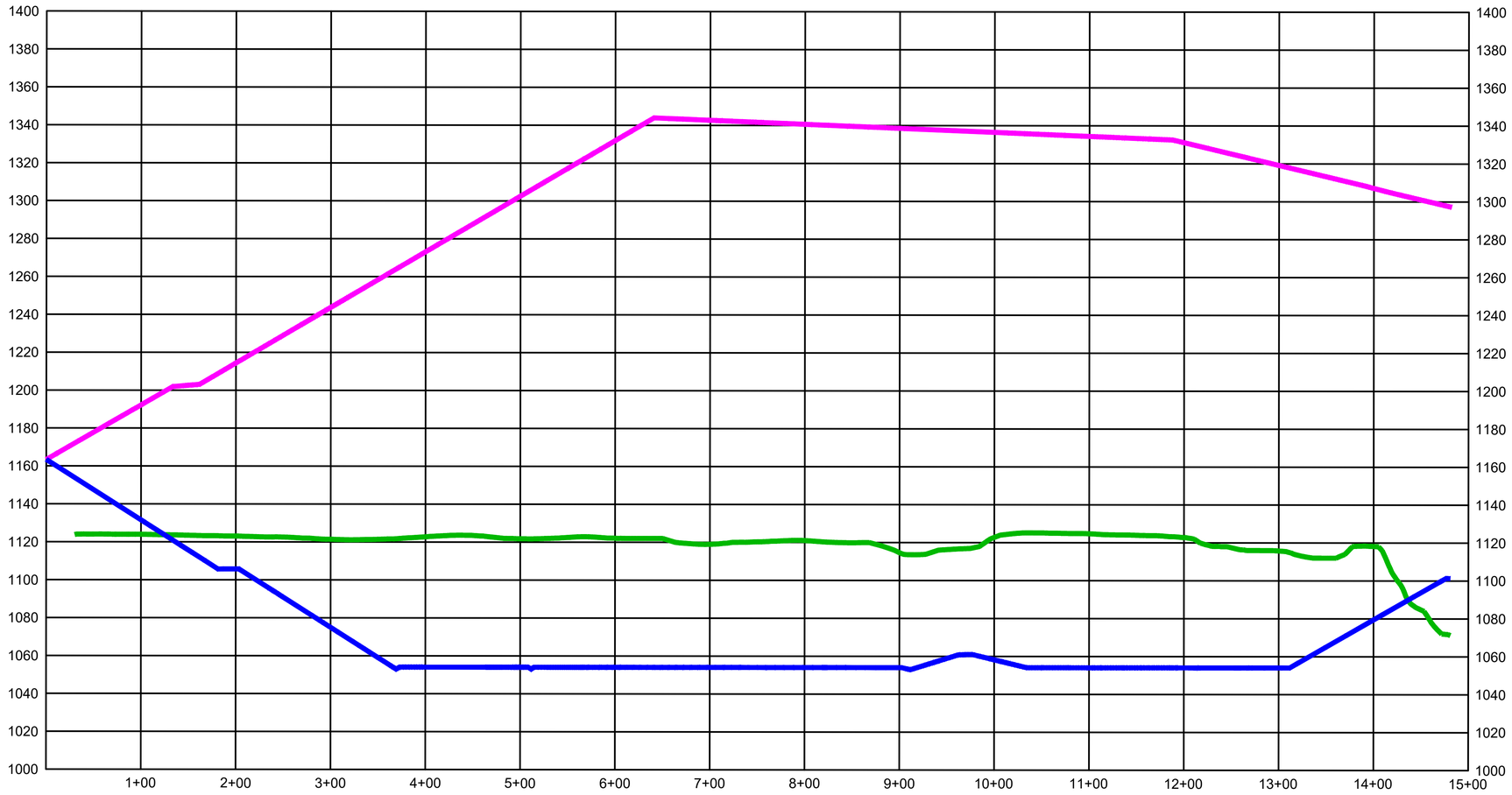
DATE: 11/04/2025

SCALE: AS SHOWN

FIGURE: 2

Z:\DATA\PROJECTS\01216008.10\Data and Calculations\Mohave Valley Landfill MDP -Eng & Permitting\Task 1\Slope Stability and Settlement\Mohave SS -JLG Desktop\Settlement Xsections.dwg Nov 05, 2025 - 9:11am By: jgillen

ALIGNMENT 2 - CROSS SECTION



LEGEND

- PERMITTED TOP OF LINER GRADES
- EXISTING TOPOGRAPHY GRADES
- PROPOSED FINAL COVER GRADES

FOR INFORMATIONAL PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: ALIGNMENT 2 - CROSS SECTION

PROJECT TITLE: LANDFILL PERMIT AMENDMENT
MOHAVE VALLEY LANDFILL
FORT MOHAVE, ARIZONA

CLIENT: MOHAVE VALLEY LANDFILL
3999 EL RODEO ROAD
FORT MOHAVE, AZ 86426

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
6100 SOUTH MAPLE AVENUE SUITE 118
TEMPE, AZ 85283
(602) 840-2396

PROJ. NO. 012216008.10 T1 | DWN. BY: JLG | CHK. BY: ETG | DSN. BY: AAS/MPB | ACAD FILE: AZ ENGINEERS | APP. BY: MPB

DATE: 11/04/2025

SCALE: AS SHOWN

FIGURE: 3

Z:\DATA\PROJECTS\012216008.10\Data and Calculations\Mohave Valley Landfill MDP - Eng & Permitting\Task 1\Slope Stability and Settlement\Mohave SS - ALG Desktop\Settlement Xsections.dwg Nov 05, 2025 - 9:11am By: jgillen

ATTACHMENT 2 – ANALYSIS DATA

TABLE 1, MOHAVE COUNTY LANDFILL - SETTLEMENT ANALYSIS

	Station	Existing Grade Elevation	Base Grade Elevation	Soil Cut	Top Final Cover Elevation	Waste Fill	Pi = Initial Loading at 20 feet below Base Grades	Stress Change from Soil Cut	Stress Change from Waste + Final Cover Fill	ΔP Loading at Final Grades	Base Settlement		Waste Depth
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(psf)	(psf)	(psf)	(psf)	(feet)	(inches)	(feet)
Alignment 1	2+00	1129	1099	-30	1176	77	6,360	-3,816	4,539	723	0.02	0.3	77
	4+00	1136	1074	-62	1221	147	10,430	-7,886	8,431	544	0.01	0.1	147
	6+00	1144	1045	-99	1259	214	15,137	-12,593	12,156	-437	-0.01	-0.1	214
	8+00	1151	1053	-98	1304	251	15,010	-12,466	14,213	1,748	0.02	0.3	251
	10+00	1160	1062	-98	1350	288	15,010	-12,466	16,270	3,805	0.04	0.5	288
	12+00	1166	1071	-95	1350	279	14,628	-12,084	15,770	3,686	0.04	0.5	279
	14+00	1170	1080	-90	1336	256	13,992	-11,448	14,491	3,043	0.04	0.5	256
	16+00	1178	1123	-55	1284	161	9,540	-6,996	9,209	2,213	0.04	0.5	161
Alignment 2	2+00	1153	1106	-47	1214	108	8,522	-5,640	6,262	622	0.01	0.2	108
	4+00	1153	1054	-99	1273	219	15,137	-11,880	12,434	554	0.01	0.1	219
	6+00	1152	1054	-98	1332	278	15,010	-11,760	15,714	3,954	0.05	0.5	278
	8+00	1151	1054	-97	1341	287	14,882	-11,640	16,215	4,575	0.05	0.6	287
	10+00	1153	1058	-95	1336	278	14,628	-11,400	15,714	4,314	0.05	0.6	278
	12+00	1153	1054	-99	1331	277	15,137	-11,880	15,659	3,779	0.04	0.5	277
	14+00	1148	1080	-68	1307	227	11,194	-8,160	12,879	4,719	0.07	0.8	227

Notes:

1. 2' Thick Final Cover as stated in permit
2. Assumes fill soil density = 120 pcf
3. Assumes compacted waste density = 55.6 pcf
4. Lab testing soil subgrade density = 127.2 pcf
5. Lab testing soil subgrade void ratio = 0.32
6. Lab testing soil subgrade specific gravity = 2.7
7. Compression Index for Stiff Soils = 0.015 (Basic Soil Engineering, B.K.Hough, 1969)
8. Estimated settlement for 40' of subgrade below base grade elevations (assumed to be average thickness of compressible layer)
9. Base Settlement Equation: $S = H*[Cc/(1+e)]*\log((1+\Delta P)/Pi))$ where ΔP equals sum of "Stress Change from Soil Cut" + "Stress Change from Waste + Final Cover Fill"

Appendix I

Cell Construction Technical Specifications and CQA Manual

Appendix I-1

Technical Specifications

Mohave Valley Landfill
Technical Specifications

Division of Environmental Quality/Waste Disposal
Mohave County Development Services
3250 E Kino Ave,
Kingman, AZ 86409
Phone: 928-757-0903

SCS ENGINEERS

01216008.10 | December 2025

6100 South Maple Avenue
Suite 118
Tempe, AZ 85283
602-840-2596

Table of Contents

Section

02200 - Earthwork

02714 - Geotextile

02716 - Geocomposite

02718 - High Density Polyethylene Pipe and Fittings

02771 - Polyethylene Geomembrane

02772 - Geosynthetic Clay Liner

2025 Specification Note: These specifications only cover the new base liner materials associated with this modification. All other previously permitted materials, components, and construction requirements not revised as part of this submittal shall continue to follow the approved specifications included in the 2011 Solid Waste Facility Plan (SWFP).

SECTION 02200

EARTHWORK

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to perform all earthwork related work as specified herein, as shown on the Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan. The Owner may provide part of the material depending on contractual agreements between the Owner and the Contractor. In such a case, the Owner shall bear the responsibilities associated with providing material.

B. The Contractor shall be prepared to construct the earthworks in conjunction with other construction activities, i.e., geosynthetics.

C. The work of this section shall include, but not necessarily be limited to: excavating, hauling, backfilling, compacting, and grading soil materials. The work of this section may pertain in whole or in part to construction of the following: landfill cells; perimeter berms; landfill final covers; surface-water dikes; temporary drainage swales, drainage ditches, anchor trenches, culverts, access roads, pipes, and disposal and stockpiling of surplus materials. The work of this section also includes dewatering and protection. Earthwork shall conform to the dimensions, lines, grades and sections specified on the Drawings.

1.02 RELATED SECTIONS

A. Section 02716 Geocomposite

B. Section 02771 Polyethylene Geomembrane

C. Section 02772 Geosynthetic Clay Liner

1.03 REFERENCES

A. CQA Plan

B. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 6913 Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis

2. ASTM D 698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft3 (600 kN-m/m3))

3.	ASTM D 1556	Standard Test Method for Density and Unit Weight of Soil In Place by the Sand-Cone Method
4.	ASTM D 1557	Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3 (2,700 kN-m/m3))
5.	ASTM D 2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
6.	ASTM D 2434	Standard Test Method for Permeability of Granular Soils (Constant Head)
7.	ASTM D 2487	Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
8.	ASTM D 2937	Standard Test Method for Density of Soil in Place by the Drive-Cylinder Method
9.	ASTM D 2974	Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils
10.	ASTM D 4220	Standard Practices for Preserving and Transporting Soil Samples
11.	ASTM D 4253	Standard Test Methods for Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
12.	ASTM D 4254	Standard Test Methods for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density
13.	ASTM D 4318	Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
14.	ASTM D 4373	Standard Test Method for Rapid Determination of Carbonate Content of Soils
15.	ASTM D 5321	Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear
16.	ASTM D 6938	Standard Test Methods for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

1.04 DEFINITIONS

A. The following are brief definitions of terminology associated with earth work at this site.

1. Soil: Those natural materials that constitutes the media below the ground surface.

2. Structural Fill: Soil compacted in lifts to construct a soil structure.

3. Subgrade: The natural media below ground surface after removal of unacceptable materials.

4. Subbase: Soil layer constructed in 1-ft thick lifts below the Base layer and above the Subgrade. Structural Fill shall be used to construct the Subbase.

5. Base: The 1-ft thick soil layer constructed in a single 1-foot thick lift directly below a synthetic material of the lining system. The soil layer surface presents an acceptable level of smoothness for placement of synthetic material. Structural Fill shall be used to construct the Base layer.

6. Protective Cover: The 2-ft thick sand layer (or the 1-ft thick sand layer if the sand layer is covered with a 1-ft thick tire chips layer or other permitted material) placed directly above the landfill bottom lining system geosynthetics.

7. Foundation Layer: The 2-ft thick soil layer constructed over existing waste slope prior to installation of the landfill bottom lining system geosynthetics.

8. Grading Layer: The approximately 1-ft thick layer of soil constructed below the final cover system geosynthetics. The soil layer surface presents an acceptable level of smoothness for placement of synthetic material.

9. Protective Soil: The 2-ft thick soil layer constructed directly above the final cover system geosynthetics. At least the upper 6 inches of the Protective Soil shall consist of soils that promote growth of grass or other vegetation.

10. Grading: Operations required to smooth and “dress” areas to design lines, profiles and grades.

1.05 MATERIAL SOURCE QUALIFICATION

A. To the extent possible, the source shall be qualified for the intended project before material is transported to the site. Under no conditions shall un-qualified material be transported to the work area.

B. At the request of the Owner, the source shall be visited by the Engineer or Engineer’s Representative, and the CQA Consultant if the CQA Consultant is an entity other than the Engineer. Pictures will be taken, a descriptive narrative of the source (lens thickness, number of feet below surface, surface conditions, whether the surface layer(s) must be stripped or removed, free standing piles, etc.) and an estimate of the

available quantity of soil from the source shall be submitted to the Owner prior to taking any qualifying samples.

C. Qualifying samples shall be taken by the CQA Consultant from the source. Samples provided by the Contractor shall be unacceptable. A minimum of one qualifying sample shall be taken from each 20,000 cubic yards of in-place material that will be excavated. Samples shall be taken from the midpoint of the lens of soil considered for evaluation. The CQA Consultant shall arrange for an excavator to reach the midpoint of the lens. If the source is a previously excavated and material placed in a pile, the qualifying sample shall be a composite sample taken from various parts of the pile representing a contiguous 20,000 cubic yards space in the pile.

D. If the material shall be screened, qualifying samples shall be taken from the screened material. Unscreened material samples do not meet the requirements of this section.

E. Soil material generated from recycling operations, environmental remediation projects, construction demolition operations, excavation of sites previously filled with soil/debris or un-virgin soils, excavation of marshes and wetlands, and/or any operation shall not be used for the project.

F. The Contractor shall notify the Owner's Representative and CQA Consultant in writing at least 7 days in advance of intention to perform the work of this Section.

1.06 EXISTING CONDITIONS

A. The approximate locations of all known underground and above ground utility lines and structures are either shown on the Drawings or provided by the Owner. The Contractor shall immediately notify the CQA Consultant if other utility lines or structures, not shown on the plans, are encountered in the field.

B. FAMILIARITY WITH PROJECT

C. An authorized representative of the Bidder shall sign Exhibit 02200-B indicating that the Bidder has thoroughly reviewed the project related documents provided by the Owner and is thoroughly familiar with the project requirements to the extent that his/her bid is complete. The signed exhibit shall be submitted to Owner along with the bid. The submitted bid shall not be considered without Exhibit 02200-B.

D. Bidders shall make all investigations necessary to thoroughly inform themselves of project site conditions for delivery of material (if provided by the bidder) and work items as specified in the bid documents. No plea of ignorance by the Bidder that may hereafter exist as a result of failure or omissions on the part of the Bidder to make prudent examinations of the contract or the compensation to vendor.

PART 2 - PRODUCTS

2.01 SUBGRADE

A. Subgrade is considered virgin ground (vertically extending into ground) established after stripping, demucking, excavation, and/or any alterations to the site.

B. Subgrade surface shall be compacted prior to placing any material over the established Subgrade surface. The Subgrade surface shall be compacted to 95 percent of the maximum dry density of the subgrade soil using Standard Proctor procedures.

C. Compaction shall be waived if the subgrade surface is below ground water. Ponded water due to rainfall or any other reason other than the presence of naturally occurring ground water shall not cause the compaction requirement to be waived. In such cases, water shall be removed, and the Subgrade surface shall be compacted after sufficient drying of the surface soil.

2.02 PROTECTIVE COVER

A. Protective Cover is a 2-ft thick granular soil layer placed directly above the landfill bottom lining system geosynthetics. No compaction is required during placement of the Protective Cover. The Protective Cover may be constructed in one lift, with a thickness no less than 2 ft.

B. The Protective Cover material shall be free of any metals, trees, stumps, concrete, construction debris, peat, unacceptable organic matter or deleterious material. A minimal amount of roots in the Protective Cover material is allowed at Engineer's approval.

C. The Protective Cover material shall be classified as SW or SP in accordance with the Unified Soil Classification System (USCS) and shall not be gap graded. The Protective Cover material shall not contain unbreakable particles larger than 1 inch in the largest dimension, with the percentage of particles by weight greater than the US standard sieve No. 4 no greater than 15 percent. The material shall have less than 5 percent by weight particles passing a No. 200 U.S. standard sieve.

D. The Protective Cover material shall have no greater than 15 percent loss of weight, when tested according to ASTM D 4373.

E. The hydraulic conductivity of the Protective Cover material shall be equal to or greater than 1×10^{-3} cm/s measured in accordance with the ASTM D 2434 procedures, modified to place the soil sample under a confining pressure equivalent to the maximum loading in the landfill. The confining pressure shall be identified by the Engineer.

F. Tire chips no greater than 2 inches in dimension, with no protruding wires, may be used in lieu of soil for the upper foot of the Protective Cover. Other granular material approved by the regulatory agency may be used in the upper foot of the Protective

Cover. Tire chips shall be used as the upper foot when Protective Cover is placed over a lining system extending over an unlined landfill slope.

G. A minimum of 1 qualifying sample per every 20,000 cubic yards of material purchased from a source or excavated from an on-site source, or a minimum of one qualifying sample from the source, whichever is greater, shall be obtained by the CQA Consultant for testing by a geotechnical laboratory. Each sample shall be tested for the following:

1. Sieve Analysis (ASTM D 6913)

2. Carbonate Content (ASTM D 4373)

3. Hydraulic Conductivity (ASTM D 2434) as discussed in this Section

4. Organic Content (ASTM D 2974)

Passing results in all above categories shall be required to qualify a source for use. Qualifying samples shall be collected from screened material if screening is required.

H. The form presented in Exhibit 02200-A shall be signed by the Contractor and CQA Consultant prior to construction of the Protective Cover, indicating that the geosynthetics surface is in acceptable condition for soil placement.

I. During construction, quality control samples shall be collected by the CQA Consultant from material used in the construction of the Protective Cover for testing by a geotechnical testing laboratory. The Contractor shall take this testing frequency into account in planning his construction schedule. The test and testing frequency shall be as follows:

1. Sieve Analysis (ASTM D 6913) at 1 per 10,000 cubic yards

2. Carbonate Content (ASTM D 4373) at 1 per 10,000 cubic yards

3. Hydraulic Conductivity (ASTM D 2434) at 1 per 10,000 cubic yards

4. Organic Content (ASTM D 2974) at 1 per 10,000 cubic yards

J. The above frequencies apply to each type of material used in the construction of the Protective Cover.

K. The density value for preparation of the sample for hydraulic conductivity testing shall be equal to the maximum dry density of the soil material measured using ASTM D 4253.

L. The Contractor shall provide personnel to pick any unapproved materials from the Protective Cover material during placement.

M. The Contractor shall provide and place thickness markers on top of the upper geosynthetic component (at the bottom of the Protective Cover). The markers shall

be 4-inch diameter corrugated HDPE pipes, 3 ft long, marked at 2-ft depth with surveyor ribbon. The thickness markers shall be placed on a maximum grid spacing of 100 ft, and at slope breakpoints on a minimum 100 ft spacing. Cardboard cores, traffic cones or wood stakes shall not be used as depth thickness markers. Thickness markers shall be removed at the completion of construction and prior to placement of waste in the newly constructed area.

N. The Protective Cover shall be placed using a low ground-pressure dozer in accordance with the requirements of this Section. The tracked equipment shall operate only over previously placed Protective Cover material. The Contractor shall not operate equipment directly on the geocomposite.

O. Equipment used for construction of the Protective Cover shall follow the thickness guidelines presented below:

Maximum Allowable Equipment Ground Pressure (psi)	Thickness of Protective Cover Material over Geocomposite (inches)
<5	12
<10	18
<20	24
>20	36

2.03 INTERMEDIATE COVER

2025 Specification Note: The Intermediate Cover materials, Construction, and Testing are discussed in the project CQA Plan and specifications in the 2011 SWFP.

2.04 PROTECTIVE SOIL MATERIAL

2025 Specification Note: The Protective Soil Cover materials, Construction, and Testing are discussed in the project CQA Plan and specifications in the 2011 SWFP.

2.05 STOCKPILING

A. Prior to the start of any excavation, the Contractor shall present a plan to the Owner indicating areas of excavation, sequence of excavation, and the anticipated classification of the excavated material. The Contractor shall take into account that the stockpiling portion of the excavation plan may be modified during construction based on the results of testing that may be performed on the excavated material by the CQA Consultant.

B. Excavated materials classified as fill shall be stockpiled in designated areas free of incompatible soil, clearing debris, or other objectionable materials. Stockpile areas shall be approved by the CQA Consultant and Owner.

C. Excavated material classified as spoil shall be segregated from fill and stockpiled or disposed of in the manner shown on the Drawings or as specified by the Owner.

D. Stockpiles of fill or spoil shall be no steeper than 2H:1V (horizontal: vertical) or other slope approved by the Engineer, graded to drain, sealed by tracking parallel to the slope with a dozer or other means approved by the Owner. The stockpiles shall be dressed daily during periods when fill is removed from the stockpile. The Contractor may cover fill stockpiles with plastic sheeting or other material approved by the Owner in order to preserve the fill material moisture content.

2.06 EXCAVATION OF UNSUITABLE MATERIALS

A. After stripping, all unsuitable materials (such as organic materials, peat, waste debris, mulch, etc.) shall be excavated and removed from the work area. Excavation and removal continue until acceptable subgrade is exposed. The CQA Consultant shall be the party responsible for accepting the Subgrade. The excavated material shall be stockpiled at a location identified by the Owner.

2.07 SURPLUS MATERIAL

A. The Contractor shall dispose of the surplus excavated soils at the direction of the Owner.

2.08 SURVEY

A. Contractor shall be responsible for construction staking. Owner shall be responsible for as-built and quantity surveys. Survey controls shall be established by the Owner.

B. Before as-built survey is scheduled, the Contractor shall submit to the Owner a survey of the lines and grades established by the Contractor to prove that the work is completed as specified in the project specifications. The survey shall be reviewed by the CQA Consultant or Engineer. The as-built survey shall be scheduled if the survey submitted by the Contractor shows that the completed area is ready for as-built survey.

C. Contractor shall be responsible for informing the Owner 48 hours prior to the need for scheduling quantity surveys. For line items in the contract based on quantity survey, Owner's surveyor shall survey the bottom (before) and top (after) of the work completed by the Contractor. Contractor shall not be paid for work completed without a bottom (before) survey.

D. Owner's surveyor shall check lines and grades established by the Contractor before approval of a completed structure.

E. Existing ground shall be surveyed by Owner before commencement of project. If stripping is involved, survey of existing surface shall be performed after stripping.

F. All pipes shall be surveyed and record drawings prepared at the completion of work.

G. As-built surveys shall be submitted to the CQA Consultant or Engineer for review. Without such approval, no material shall be placed over the surveyed surface. The Contractor shall include timing for required surveys, review of surveys, and approval of surveys in his construction planning.

H. Survey tolerance shall be identified in the project drawings. Survey tolerance is the same on any point on line. In other words, survey tolerance applies not only to stake points, but also to points in between stake points.

2.09 FIELD QUALITY ASSURANCE

A. All earth work shall be performed in accordance with the requirements of this Specification and the CQA Plan. The quality control sampling and testing procedures presented in the CQA Plan shall be followed by the CQA Consultant.

B. All earth work shall be monitored by the CQA Consultant as outlined in the CQA Plan.

C. Any additional monitoring requirements discussed during the pre-construction meeting or any progress meeting and agreed upon by all involved parties will become part of the project specifications. Written notices of change orders as a result of such agreements shall be submitted to the Owner within seven days of the meeting.

D. The Contractor's Superintendent shall sign Exhibit 02200-C during the pre-construction meeting stating that the Superintendent is thoroughly familiar with the project site conditions and the project requirements, and no plea of ignorance by the Contractor of the site conditions and project requirements shall be made, or if made by a representative of the Contractor, shall be of no merit. Signing of Exhibit 02200-C is required for the Superintendent to perform on the project.

E. The CQA Consultant will perform soil moisture, dry unit weight, and lift thickness tests in the field on each lift of soil material (as required by Part 2 of this Section) to evaluate compliance with this Section. Testing will be carried out in accordance with the project CQA Plan.

F. If a defective area is discovered in the work area, the CQA Consultant shall immediately determine the extent and nature of the defect. If the defect is indicated by an unsatisfactory test result, the CQA Consultant shall determine the extent of the defective area by additional tests, observations, a review of records, or other means that the CQA Consultant deems appropriate.

G. After determining the extent and nature of a defect, the Contractor shall correct the deficiency to the satisfaction of the CQA Consultant. The cost of corrective actions shall be borne by the Contractor.

H. All perforations resulting from testing the soil layers shall be filled with soil compacted to the satisfaction of the CQA Consultant.

I. At the discretion of the CQA Consultant, a special testing frequency shall be set when visual observations of construction performance indicate a potential problem, or failing qualifying sample results are obtained following passing results from earlier samples.

J. Additional testing shall be performed to verify that the defect has been corrected before any additional work is performed by the Contractor in the area of the deficiency.

K. Upon determination by CQA Consultant that soil delivered to the site or the work area from a previously qualified source no longer meets the project specifications, the Contractor or any party involved in the delivery and handling of material shall cease operation until the issue is resolved. Sub-standard material delivered to the work area shall be removed by the Contractor at no charge to the Owner provided the Contractor was responsible for purchase and delivery of material.

L. The Contractor shall be aware of all field CQA testing activities, as these may affect his schedule.

2.10 PROTECTION OF WORK

A. The Contractor shall use all means necessary to protect all materials and all partially-completed and completed work of this Section. Protection measures may include, but not necessarily limited to, construction of temporary berms, roads, swales, culverts, etc.

B. In the event of damage, the CQA Consultant will identify areas requiring repair, and the Contractor shall make all repairs and replacements necessary to the approval of the CQA Consultant, at no additional cost to Owner.

C. At the end of each day, the Contractor shall verify that the entire work area was left in a state that promotes surface drainage off and away from the work area and from finished work. If threatening weather conditions are forecasted, compacted surfaces shall be seal-rolled to protect finished work.

2.11 PUMPING AND DRAINAGE

A. At all times during construction, the Contractor shall provide and maintain proper equipment and facilities to remove all water entering excavations, and to keep such excavations dry so as to obtain a satisfactory subgrade to allow the construction of the fill and installation of the liner system.

B. Water entering the excavation from surface runoff shall be collected in shallow ditches around the perimeter of the excavation, drained to sumps, and pumped from the excavation to the perimeter drainage ditch or pond in order to maintain the excavation bottom free from standing water.

C. Drainage shall be disposed of only in an area approved by the Owner. Drainage shall be disposed of in a manner which prevents flow or seepage back into the excavated area.

D. The Contractor shall install and maintain all erosion control features, (i.e., silt fences around all areas down slope of soil disturbance, unless a drainage ditch exists at the boundary of the disturbed area). Other areas requiring silt fences shall be identified by the Owner during construction. Silt fences shall not be removed until the contained areas are successfully revegetated.

2.12 REVEGETATION

A. At the end of construction, disturbed areas with exposed soil and other areas designated on the Drawings shall be regraded and revegetated, as specified by the Owner.

EXHIBIT 02200-A

CERTIFICATION OF ACCEPTANCE OF INSTALLED GEOSYNTHETIC SURFACE FOR PROTECTIVE COVER PLACEMENT

OWNER:

SITE:

LOCATION:

PROJECT:

CERTIFICATION:

I, _____, the authorized representative of _____ _____ (Earthwork Contractor), do hereby accept the surface of installed geosynthetic in the area described below for soil placement:

_____

_____

_____

_____
Signature Date

I, _____, the authorized representative of _____ _____ (CQA Consultant), do hereby certify that the above described area is in acceptable condition for soil placement.

_____
Signature Date

EXHIBIT 02200-B

STATEMENT BY BIDDER

OWNER:

SITE:

LOCATION:

PROJECT:

CERTIFICATION:

I, _____, the authorized representative of _____ _____ (Bidder), do hereby certify that I am thoroughly familiar with the above project site conditions and the project requirements provided to me for bidding purposes, to the extent that my bid is complete.

_____

Signature Date

Note:

This form must accompany the bid.

EXHIBIT 02200-C

STATEMENT BY CONTRACTOR'S SUPERINTENDENT

OWNER:

SITE:

LOCATION:

PROJECT:

CERTIFICATION:

I, _____, the authorized representative of _____ _____ (Contractor), do hereby certify that I am thoroughly familiar with the above project site conditions and the project requirements included in the project contract.

_____

Signature Date

[END OF SECTION]

SECTION 02714

GEOTEXTILE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary for the installation of geotextile, as specified herein, as shown on the Drawings, and in accordance with the CQA Plan. Material may be provided by the Owner, and installation may be performed by the Geotextile Installer under direct contract with the Owner. The term Contractor in this Section applies to the responsible party or parties. The responsible party or parties could be the Owner (only as purchaser of material, if any), Earthwork Contractor, Geotextile Installer, and/or Geotextile Manufacturer depending on the contractual agreements.

B. The Contractor shall be prepared to install geotextile in conjunction with the earthwork and other components of the liner system.

1.02 RELATED SECTIONS

A. Section 02200 Earthwork

B. Section 02716 Geocomposite

C. Section 02771 Polyethylene Geomembrane

D. Section 02772 Geosynthetic Clay Liner

1.03 REFERENCES

A. CQA Plan

B. Latest version of American Society for Testing and Materials (ASTM) standards:

1.	ASTM D 4491	Standard Test Methods for Water Permeability of Geotextiles by Permittivity
2.	ASTM D 4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles
3.	ASTM D 4632	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
4.	ASTM D 4751	Standard Test Methods for Determining Apparent Opening Size of a Geotextile

5. ASTM D 5261 Standard Test Method for Measuring Mass per Unit Area of Geotextiles

6. ASTM D 6241 Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50mm Probe

1.04 QUALIFICATIONS

A. The Contractor shall provide the services of a Geotextile Manufacturer, Fabricator, and Installer, who shall meet the following qualifications. The Contractor shall, however, accept and retain full responsibility for all materials and installation and shall be held responsible for any defects in the completed system.

B. Geotextile Manufacturer:

1. The Geotextile Manufacturer shall be responsible for the production and delivery of geotextile rolls and shall be a well-established firm with more than two years of experience in the manufacture of geotextiles. The Geotextile Manufacturer shall submit a statement to the Owner's Representative and CQA Consultant certifying minimum property values of the proposed geotextiles and the tests used to determine those properties.

C. Geotextile Fabricator:

1. If a Geotextile Fabricator is used, the Geotextile Fabricator shall submit the following a minimum of 14 days prior to delivery of geotextile to the site:

a. Results of quality control tests on seams

b. Certification that the minimum average roll values of seams comply with the specifications

D. Geotextile Installer:

1. The Geotextile Installer shall be responsible for field handling, storing, deploying, seaming or connecting, temporary restraining (against wind), anchoring, and other site aspects of the geotextiles.

2. The Geotextile Installer shall be trained and qualified to install geotextiles. The installer's qualifications will require the CQA Consultant's approval.

1.05 SUBMITTALS

A. The Contractor shall submit to the Owner's Representative and CQA Consultant the following information on geotextile production:

1. Manufacturing quality control certificates for each batch of resin and each shift's production. The certificates shall be signed by responsible parties employed by the Manufacturer (such as the production manager), and notarized.

2. The quality control certificate shall include:

   a. lot, batch, or roll numbers and identification

   b. sampling procedures

   c. results of quality control tests, including a description of the test methods used

1.06 CONSTRUCTION QUALITY ASSURANCE

A. The installation of the geotextile shall be monitored specified in this section and as outlined in the CQA Plan.

B. The Contractor shall be aware of the activities outlined in the CQA Plan and shall account for these CQA activities in the installation schedule.

PART 2 - PRODUCTS

2.01 GEOTEXTILE PROPERTIES

A. Unless otherwise noted on the Drawings, geotextile suppliers shall furnish materials whose "Minimum Average Roll Values", as defined by the Federal Highway Administration (FHWA), meet or exceed the criteria specified in Table 02714-1. The manufacturer shall provide test results for these procedures, as well as a certification that the material properties meet or exceed the specified values. The geotextiles provided by the supplier shall be stock products. The supplier shall not furnish products specifically manufactured to meet the specifications of this project unless authorized by the Engineer.

B. The geotextile shall be needle-punched non-woven. The geotextile that will be placed over studded geomembrane shall have a burnished side. The burnished side shall be in contact with the studded geomembrane.

C. In addition to the property values listed in Table 02714-1, the geotextile shall:

   1. Retain their structure during handling, placement, and long-term service.

   2. Be capable of withstanding direct exposure to sunlight for a minimum of 90 days with no measurable deterioration.

2.02 MANUFACTURING QUALITY CONTROL

A. The Geotextile Manufacturer shall sample and test the geotextile material at the frequency established in the manufacturer's quality control protocol to demonstrate that the material conforms to the requirements in Part 2.01 of this Section.

B. Samples that do not meet the specified properties shall result in rejection of the applicable rolls.

C. At the Geotextile Manufacturer's discretion and expense, additional testing of individual rolls may be performed to more closely identify the non-complying rolls and/or to qualify individual rolls.

2.03 PACKING AND LABELING

A. Geotextiles shall be supplied in rolls wrapped in relatively impermeable and opaque protective covers.

B. Geotextile rolls shall be marked or tagged with the following information:

1. manufacturer's name
2. product identification
3. lot or batch number
4. roll number
5. roll dimensions

C. If any special handling is required, it shall be so marked on the geotextile itself; e.g., "This Side Up" or "This Side Against Soil to be Retained".

2.04 TRANSPORTATION

A. Transportation of the geotextiles is the responsibility of the Contractor. The Contractor shall be liable for all damages to the materials incurred prior to and during transportation to the site.

2.05 HANDLING AND STORAGE

A. Handling, storage, and care of the geotextiles prior to and following installation at the site, is the responsibility of the Contractor. The Contractor shall be liable for all damages to the materials incurred prior to final acceptance of the liner system by the Owner's Representative.

B. The Contractor shall be responsible for storage of the geotextile material at the site.

C. The geotextiles shall be protected from sunlight, moisture, excessive heat or cold, puncture, or other damaging or deleterious conditions. The geotextile shall be protected from mud, dirt and dust. Any additional storage procedures required by the Geotextile Manufacturer shall be the Contractor's responsibility.

2.06 CONFORMANCE TESTING

A. Upon delivery to the site or at the location of the manufacturer, samples of the geotextile shall be removed by the CQA Consultant and sent to a laboratory selected by the Owner for testing to ensure conformance to this Section.

B. Samples shall be selected by the CQA Consultant in accordance with this Section and the procedure outlined in the CQA Plan.

C. Samples shall be taken at the rate of one sample per lot or one per 100,000 square feet, whichever is greater.

D. Conformance tests shall be performed by the Geosynthetics Testing Laboratory in accordance the CQA Plan.

E. The CQA Consultant may increase the frequency of sampling as outlined in the CQA Plan in the event that test results do not comply with requirements specified in Part 2.01 of this Section. This additional testing shall be performed at the expense of the Contractor.

F. Any geotextiles that are not certified in accordance with Part 1.05 of this Section, or that conformance testing indicates do not comply with Part 2.01 of this Section, shall be rejected and replaced with new material in accordance with the CQA Plan, at no additional cost to the Owner.

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any of the work described in this Section, the Contractor shall become thoroughly familiar with all portions of the work falling within this Section.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections and verify that all work is complete to the point where the installation of this section and the CQA Plan may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, he/she shall notify the Owner's Representative in writing within 48-hours of his site inspection. Failure to inform the Owner's Representative in writing or installation of the geotextiles will be construed as Contractor's acceptance of the related work of all other Sections.

3.02 HANDLING AND PLACEMENT

A. The Contractor shall handle all geotextile in such a manner as to ensure they are not damaged in any way.

B. The Contractor shall take any necessary precautions to prevent damage to underlying layers during placement of the geotextile.

C. After unwrapping the geotextile from its opaque cover, the geotextile shall not be left exposed for a period in excess of 90 days unless a longer exposure period is approved by the Engineer, based on a formal demonstration from the Contractor that the geotextile is stabilized against U.V. degradation for a period in excess of 90 days.

D. If white colored geotextile is used, precautions shall be taken against "snow blindness" of personnel.

E. The Contractor shall take care not to entrap stones, excessive dust, or moisture in the geotextile during placement.

F. The Contractor shall weight all geotextiles with sandbags, or the equivalent, in the presence of wind. Such sandbags shall be installed during placement and shall remain until replaced with protective cover or other components of the liner system.

G. The Contractor shall examine the entire geotextile surface after installation to ensure that no potentially harmful foreign objects are present. The Contractor shall remove any such foreign objects and shall replace any damaged geotextile.

3.03 SEAMS AND OVERLAPS

A. All geotextiles shall be continuously sewn (i.e., spot sewing is not allowed). Geotextiles shall be overlapped a minimum 3 inches prior to seaming. No continuous (long) horizontal seams in excess of the panel width shall be allowed on slopes steeper than 10 horizontal to 1 vertical (i.e., seams shall be along, not across, the slopes).

B. Polymeric thread, with chemical resistance properties equal to or exceeding those of the geotextile, shall be used for all sewing. The seams shall be sewn using Stitch Type 401. The seam type shall be Federal Standard Type SSa-1 ("Prayer Seam").

3.04 REPAIR

A. Any holes or tears in the geotextile shall be repaired as follows:

1. On slopes steeper than 5 horizontal to 1 vertical, a patch made from the same geotextile shall be double seamed into place (with each seam 0.5 inch apart and no closer than 2 inches from any edge). Should any tear exceed 50 percent of the width of the roll, that roll shall be removed from the slope and replaced with new material.

2. On slopes flatter than or equal to 5 horizontal to 1 vertical, a patch made from the same geotextile shall be spot-seamed in place with a minimum of 1 foot overlap in all directions.

B. Care shall be taken to remove any soil or other material which may have penetrated the torn geotextile.

3.05 PLACEMENT OF SOIL MATERIALS

A. The Contractor shall place all soil materials on top of a geotextile, in such a manner as to ensure that:

1. the geotextile and underlying materials are not damaged.

2. minimum slippage occurs between the geotextile and underlying layers.

3. excess stresses are not produced in the geotextile.

3.06 PRODUCT PROTECTION

A. The Contractor shall use all means necessary to protect all prior work and materials and completed work of other Sections.

B. In the event of damage, the Contractor shall immediately make all repairs and replacements necessary, to the approval of the CQA Consultant and at no additional cost to the Owner.

TABLE 02714 - 1

GEOTEXTILE PROPERTIES

PROPERTIES	QUALIFIER	UNITS	SPECIFIED VALUES(1)	TEST METHOD
Type	–	–	Needle punched nonwoven	–
Polymer composition	minimum	%	95 polypropylene or polyester by weight	
Mass/Unit Area	minimum	oz/sy	6.0	ASTM D 5261
Apparent Opening Size	maximum	(mm)	$O_{95} \leq 0.21$	ASTM D 4751
Hydraulic Conductivity	minimum	(cm/s)	0.1	ASTM D 4491
Mechanical Requirements (2)				
Grab Strength	minimum	lb	160	ASTM D 4632
Tear Strength	minimum	lb	65	ASTM D 4533
Puncture Strength	minimum	lb	95	ASTM D 6241

Notes:

1. All values represent minimum average roll values (i.e., any roll in a lot should meet or exceed the values in this table).
2. Minimum value measured in machine and cross machine direction.
3. This section applies only to geotextiles used individually; for geotextile attached to geonet, refer to the Geocomposite section of these specifications.
4. Any variation to these specifications must be at Engineer's approval.

[END OF SECTION]

SECTION 02716

GEOCOMPOSITE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and equipment necessary for the installation of geocomposite as specified herein, as shown on the Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan. Material may be provided by the Owner, and installation may be performed by the Geocomposite Installer under direct contract with the Owner. The term Contractor in this Section applies to the responsible party or parties. The responsible party or parties could be the Owner (only as purchaser of material, if any), Earthwork Contractor, Geocomposite Installer, and/or Geocomposite Manufacturer depending on the contractual agreements.

B. The Contractor shall be prepared to install the geocomposite in conjunction with earthworks and other components of the liner system.

1.02 RELATED SECTIONS

A.	Section 02200	Earthwork
B.	Section 02714	Geotextile
C.	Section 02771	Polyethylene Geomembrane
D.	Section 02772	Geosynthetic Clay Liner

1.03 REFERENCES

A. CQA Plan

B. Latest version of American Society for Testing and Materials (ASTM) standards:

1.	ASTM D 1505	Standard Test Method for Density of Plastics by the Density-Gradient Technique
2.	ASTM D 4491	Standard Test Methods for Water Permeability of Geotextiles by Permittivity
3.	ASTM D 4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles
4.	ASTM D 4632	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles

5.	ASTM D 4716	Standard Test Method for Determining the (In-Plane) Flow Rate per Unit Width and Hydraulic Transmissivity of Geosynthetic Using a Constant Head
6.	ASTM D 4751	Standard Test Methods for Determining Apparent Opening Size of a Geotextile
7.	ASTM D 4833	Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products
8.	ASTM D 5199	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics
9.	ASTM D 5261	Standard Test Method for Measuring Mass per Unit Area of Geotextiles
10.	ASTM D 5321	Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear
11.	ASTM D 6241	Standard Test Method for Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe
12.	ASTM D 7005	Standard Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites

1.04 QUALIFICATIONS

A. The Contractor shall provide the services of a Geocomposite Manufacturer and Installer, who shall meet the following qualifications. The Contractor shall, however, accept and retain full responsibility for all materials and installation and shall be held responsible for any defects in the completed system.

1. Manufacturer:

a. The Geocomposite Manufacturer shall be responsible for the production and delivery of geocomposite rolls and shall be a well-established firm with more than one year of experience in the manufacture of geocomposite. The Manufacturer shall submit a statement to the Owner's Representative and CQA Consultant listing:

1) Certified minimum property values of the proposed geocomposite and the tests used to determine those properties.

2) Production capacity available and projected delivery dates for this project.

2. Installer:

a. The Installer shall be responsible for field handling, storing, deploying, seaming or joining, temporary restraining (against wind), anchoring systems, and other site aspects of the geocomposite

b. The Installer shall be trained and qualified to install geocomposite

1.05 SUBMITTALS

A. The Contractor shall submit to the Owner's Representative and CQA Consultant in writing prior to transporting any geocomposite rolls to the site the following documentation on the raw materials used to manufacture the geocomposite components:

1. Copies of quality control certificates issued by the resin supplier including production dates of the resin

2. Results of tests conducted to verify the quality of the resin used to manufacture the geocomposite components assigned to the project

3. Certification that no reclaimed polymer is added to the resin during the manufacture of the geocomposite components assigned to the project

B. The Contractor shall submit to the Owner's Representative and CQA Consultant copies of the quality control certificates issued by the geotextile manufacturer. The certificates shall include product identification, roll numbers, lot or batch numbers, and results of quality control tests including descriptions of test methods used.

C. The Contractor shall submit to the Owner's Representative and CQA Consultant copies of the quality control certificates issued by the geonet manufacturer. The certificates shall include product identification, roll numbers, lot or batch numbers, and results of quality control tests including description of test methods used.

1.06 CONSTRUCTION QUALITY ASSURANCE

A. Geocomposite installation shall be monitored as outlined in the CQA Plan.

B. The Contractor shall be aware of the activities outlined in the CQA Plan and shall account for these CQA activities in the installation schedule.

PART 2 - PRODUCT

2.01 GEOCOMPOSITE PROPERTIES

A. The Manufacturer shall furnish geocomposite having properties that comply with the required property values shown in Tables 02716-1 through 02716-3. The Manufacturer shall provide certification that the materials meet or exceed the specified values.

B. In addition to the property values listed in Tables 02716-1 through 02716-3, the geocomposite shall:

1. Retain their structure during handling, placement, and long-term service.

2. Be capable of withstanding outdoor exposure for a minimum of 90 days with no measurable deterioration.

3. Be chemically inert when immersed in the leachate from a typical sanitary landfill.

2.02 MANUFACTURING QUALITY CONTROL

A. The geocomposite shall be manufactured with quality control procedures that meet generally accepted industry standards.

B. The Geocomposite Manufacturer shall sample and test the geocomposite rolls to demonstrate that the material conforms to the requirements of this Section.

C. Any geocomposite sample that does not comply with this Section shall result in rejection of the roll from which the sample was obtained. The rejected roll shall not be used.

D. If a geocomposite sample fails to meet the quality control requirements of this Section or any Supplement Specifications provided by the Engineer, the Geocomposite Manufacturer shall be required to sample and test the rolls manufactured before and after the rejected roll. Sampling and testing of rolls shall continue until substandard rolls are identified. Substandard rolls shall not be used.

E. The geocomposite shall be tested by the Geocomposite Manufacturer for quality control, at the typical frequencies used at manufacturer's plant to evaluate its physical and mechanical properties as presented in Table 02716-1, whichever applicable. At a minimum, the following manufacturing quality control tests shall be performed:

Geonet Component	Specific gravity Thickness Carbon black
Geotextile Component	Mass per unit area Apparent opening size Permittivity Grab strength Tear strength Puncture strength
Geocomposite	Peel strength Hydraulic Transmissivity

2.03 PRODUCT QUALIFYING TESTING

A. For each construction event and for the purpose of qualifying geocomposite products selected for the project, the Engineer shall arrange for interface shear tests to be performed for every type of geocomposite included in the project that is in contact with another type of material included in the project. Tests shall be performed as a single interface test. More specifically, the following interfaces shall be tested:

1. Interface of the geocomposite with the protective cover soil

2. Interface of the geocomposite with the primary geomembrane

B. Interface shear tests shall be performed in accordance with ASTM D 5321. Tests shall consist of at least 4 separate shear tests run at normal stress of 35, 70, 105, and 140 psi for the lining system components Each interface shall be tested only once. Test parameters shall be provided by the Engineer. The Engineer shall perform slope stability analysis using the results reported by the geosynthetics laboratory. The minimum safety factor of 1.5 is required for qualifying the material for use in the project. Each interface shall be evaluated separately.

C. Transmissivity conformance tests on the Geocomposite specimens shall be conducted with the specimen placed between the protective cover soil material from the site (placed above the specimen) and a 60-mil textured geomembrane (placed below the specimen). The sample shall be tested under 20,000 psf confining pressure with a hydraulic gradient of 0.01. The sample shall remain under the specified confining pressure for one hour before measurements are taken.

D. For each construction event, one specimen of each type of geocomposite material used in lining system shall be tested with a 100 hours seat time to qualify the geocomposite product for use in the project. The sample set up shall be similar to the descriptions presented above in this Section. Measurements shall be taken at 15 minutes, 1 hour, 24 hours, and 100 hours of the test duration. The 100-hour test may be waived provided results from a 100-hour test, performed during the prior 5 years, on the same geocomposite product (same geonet and geotextile) under similar boundary conditions, are available from a previous construction event at the site.

2.04 LABELING

A. Geocomposite shall be supplied in rolls wrapped in relatively impermeable and opaque protective covers.

B. Geocomposite rolls shall be labeled with the following information:

1. manufacturer’s name

2. product identification

3. lot or batch number

4. roll number

5. roll dimensions

C. If any special handling is required, it shall be so marked on the geotextile component e.g., “This Side Up” or “This Side Against Soil To Be Retained”.

2.05 TRANSPORTATION

A. The party responsible for the transport of geocomposite rolls shall be liable for all damages to the materials incurred during transportation to the site.

2.06 HANDLING AND STORAGE

A. Handling, storage, and care of the geocomposite following delivery to the site and prior to and following installation at the site are the responsibility of the Contractor. The Contractor shall be liable for all damages to the materials incurred prior to final acceptance of the lining system by the Owner’s Representative.

B. The Contractor shall be responsible for storage of the geocomposite at the site. The geocomposite shall be stored off the ground and out of direct sunlight, and shall be protected from excessive heat or cold, mud, dirt, and dust. Any additional storage procedures required by the manufacturer shall be the Contractor’s responsibility.

2.07 CONFORMANCE TESTING

A. Upon delivery to the site or at the location of the Geocomposite Manufacturer, samples of the geocomposite shall be removed by the CQA Consultant or the CQA Laboratory Representative and sent to the laboratory selected by the CQA Consultant for testing to ensure conformance to this Section.

B. Samples and tests shall be selected by the CQA Consultant in accordance with this Section and the procedures outlined in the CQA Plan.

C. Samples shall be taken at the rate of one sample per 100,000 square feet with a minimum of one sample per lot. Samples for transmissivity tests shall be taken at the rate of one sample per 250,000 square feet with a minimum of one sample per lot. Rolls from previous construction activities shall be re-tested, unless quality control documentation from the manufacturer and conformance test results, acceptable to the CQA Consultant, are available.

D. Conformance tests shall be performed by the Geosynthetics Testing Laboratory in accordance the CQA Plan.

E. The CQA Consultant may increase the frequency of sampling as outlined in the CQA Plan in the event that test results do not comply with Part 2.01 of this Section. This additional testing shall be performed at the expense of the party responsible for furnishing the material.

F. Any geocomposite that is not certified in accordance with Part 1.05 of this Section, or that conformance testing indicates the material does not comply with Part 2.01 of this Section, shall be rejected. The rejected material shall not be used. The rejected material shall be replaced with acceptable material at no cost to the Owner.

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any of the work described in this Section, the Contractor shall become thoroughly familiar with all portions of the work falling within this Section and the CQA Plan.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections and verify that all work is complete to the point where the installation of this Section may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, he/she shall notify the Owner's Representative in writing within 48 hours of his site inspection. Failure to inform the Owner's Representative in writing or installation of the geocomposite will be construed as Contractor's acceptance of the related work of all other Sections.

3.02 HANDLING AND PLACEMENT

A. The Contractor shall handle all geocomposite in such a manner as to ensure the geocomposite are not damaged in any way.

B. The Contractor shall take any necessary precautions to prevent damage to underlying layers during placement of the geocomposite.

C. In the presence of wind, all geocomposite shall be weighted with sandbags or the equivalent. Such sandbags shall be installed during placement and shall remain until replaced with cover material.

D. On side slopes, the geocomposite shall be secured in the anchor trench and then rolled down the slope in such a manner as to continually keep the geocomposite in tension.

E. If necessary, the geocomposite shall be positioned by hand after being unrolled to minimize wrinkles.

F. Care shall be taken during placement of geocomposite not to entrap dirt or excessive dust in the geonet component of the geocomposite that could cause clogging of the drainage system, and/or stones that could damage the adjacent liner. If dirt or excessive dust is entrapped in the geocomposite, it should be cleaned prior to placement of the next material on top of it. Care shall be exercised when handling sandbags, to prevent rupture or damage of the sandbags.

G. Geocomposite shall only be cut using Geocomposite Manufacturer's recommended procedures.

H. Unless otherwise specified, geocomposite shall not be welded to liners.

I. Tools shall not be left on, in, or under the geocomposite.

J. After unwrapping the geocomposite from its opaque cover, the geocomposite shall not be left exposed for a period in excess of 90 days unless a longer exposure period is approved by the Engineer, based on a formal demonstration from the Contractor that the geotextile component of the geocomposite is stabilized against U.V. degradation for a period in excess of 90 days.

K. If white colored geotextile is used in the geocomposite, precautions shall be taken against "snow blindness" of personnel.

3.03 SEAMS AND OVERLAPS

A. The geocomposite components are not bonded together at the ends and edges of the rolls. Each component will be secured or seamed to the like component at overlaps.

B. Geonet Component:

1. The geonet components shall be overlapped by at least 4 inches. These overlaps shall be secured by spot welding or tying.

2. Tying shall be achieved by plastic fasteners or polymer braid. Tying devices shall be white or yellow for easy inspection. Metallic devices shall not be used.

3. Tying shall be every 4 feet down the slope, every 2 feet across the slope, every 9 inches in the anchor trench and every 4 feet on horizontal surfaces.

C. Geotextile Components:

1. The bottom layers of geotextile shall be overlapped or the geotextile from one panel shall be cut and removed and the geotextile from another panel shall be placed against the underlying geomembrane (without folding back the geotextile underneath the geocomposite). The top layers of geotextiles shall be continuously sewn (i.e., spot sewing is not allowed). Geotextiles shall be overlapped a minimum of 4 inches prior to seaming.

2. No continuous (long) horizontal seams shall be allowed on slopes steeper than 10 horizontal to 1 vertical.

3. Polymeric thread, with chemical resistance properties equal to or exceeding those of the geotextile component, shall be used for all sewing. The seams shall be sewn using Stitch Type 401. The seam type shall be Federal Standard Type SSa-1 ("Prayer Seam).

3.04 REPAIR

A. Any holes or tears in the geocomposite (damaged geonet) shall be repaired by placing a geocomposite patch extending 1 ft beyond the edges of the hole or tear. The patch shall be secured by tying fasteners through the bottom geotextile and the geonet of the patch, and through the top geotextile and geonet on the slope. The patch shall be secured every 6 inches with approved tying devices. A strip of loose geotextile shall be placed at the perimeter of the patch and heat sealed to the top geotextile of the patch and the geocomposite needing repair. If the hole or tear width across the roll is more than 50 percent of the width of the roll, the damaged area shall be cut out and the two portions of the geonet shall be joined in accordance with Subsection 3.04 above.

B. Any damage to the upper geotextile (no damage to geonet) shall be repaired by placing a geotextile patch over the damaged area and heat bonding. No hole due to overheating during heat bonding is allowed.

3.05 PLACEMENT OF SOIL MATERIALS

A. The Contractor shall place all soil materials in such a manner as to ensure that:

1. the geocomposite and underlying liner system materials are not damaged.

2. minimal slippage occurs between the geocomposite and underlying layers.

3. excess tensile stresses are not produced in the geocomposite.

B. Unless otherwise specified by the Engineer, all equipment operating on soil material overlying the geocomposite shall comply with the following:

Maximum Allowable Equipment Ground Pressure (psi)	Thickness of Overlying Fill (inches)
<5	12
<10	18
<20	24
>20	36

3.06 PRODUCT PROTECTION

A. The Contractor shall use all means necessary to protect all prior work, and all materials and completed work of other Sections.

B. In the event of damage, the Contractor shall immediately make all repairs and replacements necessary to the approval of the Owner's Representative and at no additional cost to the Owner.

TABLE 02716-1

LINING SYSTEM GEOCOMPOSITE PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES (1)	TEST METHOD
Geonet Component:				
Polymer composition	minimum	%	95% polyethylene by weight	
Polymer density	minimum	g/cm^3	0.94	ASTM D 1505
Nominal thickness	minimum	mils	300	ASTM D 5199 (GT Method)
Geotextile Component:				
Polymer composition	minimum	%	95 polyester or polypropylene	
Mass/Unit Area	minimum	oz/sy	6	ASTM D 5261
Apparent opening size (for filter applications only)	maximum	mm	$O_{95} < 0.21$	ASTM D 4751
Hydraulic conductivity	minimum	cm/s	0.1	ASTM D 4491
Grab strength(2)	minimum	lb	160	ASTM D 4632
Tear strength(2)	minimum	lb	65	ASTM D 4533
Puncture strength	minimum	lb	450	ASTM D 6241
Geocomposite Component:				
Transmissivity	minimum	m^2/s	9×10^{-4}	ASTM D 4716
Peel strength	minimum	lb/in	1.0	ASTM D 7005

NOTES:

1. All values represent minimum average roll values (i.e., any roll in a lot should meet or exceed the values in this table).
2. Minimum value measured in machine and cross machine direction.
3. Any variation to these specifications must be at Engineer's approval.

[END OF SECTION]

SECTION 02718

HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary for installation of all high density polyethylene (HDPE) pipe, fittings and appurtenances as specified herein, as shown on the Drawings and in accordance with the Construction Quality Assurance (CQA) Plan. Material may be provided by the Owner, and installation may be performed by the Earthwork Contractor or another qualified party under direct contract with the Owner. The term Contractor in this Section applies to the responsible party or parties. The responsible party or parties could be the Owner (only as purchaser of material, if any), Earthwork Contractor, and/or Pipe Installer depending on the contractual agreements.

B. The Contractor shall be prepared to install HDPE pipe and fittings in conjunction with the earthwork and other components of the liner system.

1.02 RELATED SECTIONS

A. Section 02200 - Earthwork

B. Section 02716 - Geocomposite

1.03 REFERENCES

A. CQA Plan

B. Latest version of the American Society for Testing and Materials (ASTM) standards:

1.	ASTM D 1248	Standard Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable
2.	ASTM D 1693	Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics
3.	ASTM D 2657	Standard Practice for Heat-Fusion Joining for Polyolefin Pipe and Fittings
4.	ASTM D 2837	Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials or Pressure Basis for Thermoplastic Pipe Products

5.	ASTM D 3350	Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
6.	ASTM D 4218	Standard Test Method for Carbon Black Content in Polyethylene Compounds
7.	ASTM F 714	Standard Specification for Polyethylene (PE) Plastics Pipe (DR-PR) Based on Outside Diameter

1.04 CONSTRUCTION QUALITY ASSURANCE

A. The installation of HDPE pipe and fittings shall be monitored as outlined in the CQA Plan.

B. The Contractor shall be aware of the activities outlined in the CQA Plan and shall account for these CQA activities in the installation schedule.

PART 2 - PRODUCTS

2.01 HIGH DENSITY POLYETHYLENE (HDPE) COMPOUND

A. The HDPE pipe and fittings shall be manufactured from new, high performance, high molecular weight, high density polyethylene resin conforming to ASTM D 3350 (Cell Classification PE 445574C) and having a Plastic Pipe Institute (PPI) Rating of PE 4710. The resin shall be pre-compounded. In plant blending of non-compounded resins shall not be permitted.

B. The polyethylene compound shall contain a minimum of 2% carbon black.

C. The polyethylene compound shall have a minimum resistance of 125 hours when tested for environmental stress crack in accordance with requirements of ASTM D 1693, Procedure B.

2.02 HIGH DENSITY POLYETHYLENE (HDPE) PIPES AND FITTINGS

A. All HDPE pipe and fittings shall comply with the ASTM F 714.

B. HDPE pipe shall be supplied in standard laying lengths not exceeding 50 feet.

2.03 IDENTIFICATION

A. The following shall be continuously printed on the pipe:

1. Name and/or trademark of the pipe manufacturer

2. Nominal pipe size

3. Standard dimension ratio (SDR)

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any of the work described in this Section, the Contractor shall become thoroughly familiar with all portions of the work included in this Section.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections and verify that all work is complete to the point where the installation of this section may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, the Contractor shall notify the Owner's Representative in writing within 48 hours of his site inspection. Failure to inform the Owner's Representative in writing or installation of the polyethylene pipes and fittings will be construed as Contractor's acceptance of the related work of all other Sections.

3.02 HANDLING AND PLACEMENT

A. The Contractor shall exercise care when transporting, handling and placing HDPE pipe and fittings, such that they will not be cut, kinked, twisted, or otherwise damaged.

B. Ropes, fabric or rubber-protected slings and straps shall be used when handling HDPE pipe. Slings, straps, etc. shall not be positioned at butt-fused joints. Cables or hooks shall not be inserted into the pipe ends as a means of handling pipe.

C. Pipe or fittings shall not be dropped onto rocky or unprepared ground. Under no circumstances shall pipe or fittings be dropped into trenches, or dragged over sharp and cutting objects.

D. HDPE pipe shall be stored on clean level ground, preferably turf or sand, free of sharp objects which could damage the pipe. Stacking shall be limited to a height that will not cause excessive deformation of the bottom layers of pipes under anticipated temperature conditions. Where necessary, due to ground conditions, the pipe shall be stored on wooden sleepers, spaced suitably and of such width as not to allow deformation of the pipe at the point of contact with the sleeper or between supports.

E. The maximum allowable depth of cuts, gouges or scratches on the exterior surface of HDPE pipe or fittings is 10 percent of the wall thickness. The interior of the pipe and fittings shall be free of cuts, gouges and scratches. Sections of pipe with excessive cuts, gouges or scratches shall be removed and the ends of the pipe rejoined at no cost to the Owner.

F. Whenever pipe laying is not actively in progress, the open end of the pipe that has been installed shall be closed using a watertight plug.

3.03 INSTALLATION

A. General:

1. All HDPE pipe and fittings shall be installed in accordance with the manufacturer's instructions.

2. The Contractor shall carefully examine all pipe and fittings for cracks, damage or defects before installation. Defective materials shall be immediately removed from the site and replaced at no cost to the Owner.

3. The interior of all pipe and fittings shall be inspected, and any foreign material shall be completely removed from the pipe interior before it is moved into final position.

4. Field-cutting of pipes, where required, shall be made with a machine specifically designed for cutting pipe. Cuts shall be carefully made, without damage to pipe or lining, so as to leave a smooth end at right angles to the axis of pipe. Cutter ends shall be tapered and sharp edges filed off smooth. Flame cutting will not be allowed.

5. All pipe and fittings shall be laid or placed to the lines and grades shown on the Drawings.

6. Blocking under piping shall not be permitted unless specifically accepted by the Engineer for special conditions.

7. The Contractor shall provide all necessary adapters and/or connection pieces required when connecting different types and sizes of pipe or when connecting pipe made by different manufacturers.

3.04 JOINTS AND CONNECTIONS

A. HDPE pipe shall be joined with thermal butt-fusion joints. All joints shall be made in strict compliance with ASTM standard procedures and the manufacturer's recommendations, and shall be performed by manufacturer's authorized, trained fusion personnel.

B. For the case of double-cased pipes, the type of centralizers (perforated or nonperforated) shall be in accordance with the project plans and specifications. In the case of any ambiguities to the type of the centralizer, the Engineer shall be consulted. The CQA party shall specifically check the type of the centralizer used in the pipe fabrication to ensure compliance with the project specifications.

C. Mechanical connections of HDPE pipe to auxiliary equipment such as valves, flow meters, pumps and tanks shall consist of the following unless otherwise specified by the Engineer:

1. An HDPE flange connection, called a stub end, shall be butt-fused to the HDPE pipe.

2. A 316 stainless steel back-up flange. Outside diameter and drillings shall comply with ANSI B16.6. Alternative materials may be used upon approval by the Engineer.

3. Other mechanical couplings, such as 360 degree full circle clamps, shall only be used if approved by the Engineer.

D. Polyethylene stub ends and flanges must be at the ambient temperature of the surrounding soil at the time they are bolted tight to prevent relaxation of the flange bolts and loosening of the joint due to thermal contraction of the polyethylene. Bolts shall be drawn up evenly and in line.

3.05 TESTING OF HDPE PIPE AND FITTINGS

A. General:

1. All nonperforated pipes shall be tested prior to placing fill over the pipe.

2. The Engineer shall be notified a minimum of 24 hours in advance of any testing.

3. The Contractor shall provide all testing apparatus, including pumps, hoses, gauges, taps, plugs, drains, temporary connections, and fittings.

4. All tests shall be performed in the presence of the Engineer or CQA Consultant representative.

5. HDPE pipe with thermal butt-fusion type joints shall be tested at 1.5 times the working pressure in the pipe or a minimum of 60 psi, whichever higher. Pipes under vacuum shall be tested under 10 psi pressure.

6. Water shall be the medium for pressure testing. Pipe shall be filled with water (static pressure) the afternoon before the following morning pressure test, to allow the pipe to stabilize. Before the morning pressure test is conducted, makeup water shall be added, remaining air in the pipe shall be released, and pressure shall be readjusted prior to the test. No pipe shall be pressure tested after 10:00 am. Test duration shall be one hour. No pressure drop should be observed over the test duration.

7. Length of pipe for pressure testing should not exceed 2,000 ft. Pipe segments equal to or less than 2,000 ft in length shall be tested individually before butt seamed together, if necessary. Locations of the butt fusion seams shall be left uncovered (if possible) until the pipe is placed in service and pressurized to check for leaks.

8. A new pipe connection to an existing pipe shall be by thermal butt-fusion connection. Liquids inside the existing pipe shall be drained for the butt-fusion to be performed in dry conditions. The location of the butt fusion seam

shall be left uncovered (if possible) until the pipe is placed in service and pressurized to check for leaks.

9. The exterior pipe of a double-cased pipe may be pressure tested individually before the interior pipe is inserted into the exterior. The test pressure shall be similar to the pressure used for the interior pipe.

10. In the case that a double-cased pipe is assembled (interior pipe inside the exterior) before pressure testing, the interior pipe shall be pressure tested following the procedures discussed above. When the exterior pipe is being pressure tested, the interior pipe shall also be pressurized with the difference between the interior pipe pressure and exterior pipe pressure no greater than 5 psi (+ or -).

11. Under no conditions shall constructed double-cased pipes be pressure tested in accordance with procedures other than specified above. Any other pressure test procedures shall be provided to the Engineer in writing at least 48 hours prior to performing the test. Engineer's approval of alternative procedures is required.

12. Any calculations for considering impact of the ambient temperature difference during the test on pressure test results shall be submitted to the Engineer for review.

B. Repair:

1. Installed pipes that leak, according to the test results, shall be either repaired to the satisfaction of the Owner's Representative or replaced at no cost to the Owner. Repaired or replaced pipe shall be successfully pressure-tested prior to filling over the pipe.

2. Visible leaks shall be repaired and retested.

3.06 PRODUCT PROTECTION

A. The Contractor shall use all means necessary to protect all prior work and materials and completed work of other Sections.

B. In the event of damage, the Contractor shall immediately make all repairs and replacements necessary to the approval of the Owner's Representative and at no additional cost to the Owner.

[END OF SECTION]

SECTION 02771

POLYETHYLENE GEOMEMBRANE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary for the installation of polyethylene geomembranes (PE) as specified herein, as shown on the Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan. Material may be provided by the Owner, and installation may be performed by the Geomembrane Installer under direct contract with the Owner. The term Contractor in this Section applies to the responsible party or parties. The responsible party or parties could be the Owner (only as purchaser of material, if any), Earthwork Contractor, Geomembrane Installer, and/or Geomembrane Manufacturer depending on the contractual agreements.

B. The Contractor shall be prepared to install the geomembranes in conjunction with earthworks and other components of the liner system.

1.02 RELATED SECTIONS

A. Section 02200 - Earthwork

B. Section 02714 - Geotextile

C. Section 02716 - Geocomposite

D. Section 02772 - Geosynthetic Clay Liner

1.03 REFERENCES

A. CQA Plan

B. Latest version of the American Society for Testing and Materials (ASTM) standards:

1. ASTM D 792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

2. ASTM D 1004 Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting

3. ASTM D 1505 Standard Test Method for Density of Plastics by the Density-Gradient Technique

4. ASTM D 4218 Standard Test Method for Determination of Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique

5. ASTM D 4833 Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products

6. ASTM D 5321 Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear

7. ASTM D 5397 Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test

8. ASTM D 5596 Standard Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics

9. ASTM D 5994 Standard Test Method for Measuring Core Thickness of Textured Geomembranes

10. ASTM D 6693 Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes

11. ASTM D 7466 Standard Test Method for Measuring Asperity Height of Textured Geomembranes

C. Geosynthetic Institute Standard Specification for "Test Methods, Test Properties and Testing Frequency for High Density Polyethylene (HDPE) Smooth and Textured Geomembranes"SM (GRI - GM13).

D. Geosynthetic Institute Standard Specification for "Test Methods, Test Properties and Testing Frequency for Linear Low Density Polyethylene (LLDPE) Smooth and Textured Geomembranes"SM (GRI - GM17).

1.04 QUALIFICATIONS

A. Contractor:

1. The Contractor shall provide the services of a Geomembrane Manufacturer, Fabricator (if necessary), and Installer, who shall meet the following qualifications. The Contractor shall, however, accept and retain full responsibility for all materials and installation and shall be responsible for any defects in the completed geomembranes.

2. The Contractor shall be responsible for providing the following qualifying information required of the proposed Geomembrane Manufacturer, Geomembrane Fabricator and Geomembrane Installer to the Owner's Representative and CQA Consultant in writing for his sole approval prior to the confirmation of any Contractual agreements.

B. Geomembrane Manufacturer:

1. The Geomembrane Manufacturer shall be responsible for the production of geomembrane rolls from resin and shall have sufficient production capacity

and qualified personnel to meet the demands (e.g., quantity production and quality control) of the project.

2. The Geomembrane Manufacturer shall submit the following information to the Owner's Representative and CQA Consultant in writing:

   a. Corporate background and information

   b. Manufacturing capabilities, including:

      1) information on plant size, equipment, personnel, number of shifts per day, and capacity per shift

      2) daily production quantity available for this Contract

      3) manufacturing quality control procedures

      4) list of material properties, including certified test results, to which are attached liner samples

   c. A list of at least ten completed facilities for which the Geomembrane Manufacturer has manufactured polyethylene geomembrane with a minimum combined quantity of 5,000,000 ft^2. The following information shall be provided for each facility:

      1) name, location, and purpose of facility, and date of installation

      2) names of Owner, Project Manager, Engineer, Contractor, Fabricator (if any), and Installer

      3) thickness and surface area of geomembrane manufactured

   d. Origin (resin supplier's name, resin production plant) and identification (brand name, number) of the polyethylene resin

C. Geomembrane Fabricator:

1. The Geomembrane Fabricator shall submit in writing the following information to the Engineer:

   a. Corporate background and information

   b. Copy of Geomembrane Fabricator's letter of approval or license by the Geomembrane Manufacturer

   c. Fabrication capabilities, including:

      1) factory size, equipment, personnel, number of shifts per day, and capacity per shift

      2) daily fabrication quantity available for this Contract

3) quality control procedures

4) samples of fabricated seams, a certified list of minimum values for seam properties, and the test methods employed

d. A list of at least ten completed facilities for which the Geomembrane Fabricator has fabricated polyethylene geomembrane panels with a minimum combined quantity of 5,000,000 ft^2. The following information shall be provided for each facility:

1) the name, location, and purpose of facility, and date of installation

2) the names of the Owner, Project Manager, Engineer, Contractor, Geomembrane Manufacturer, Geomembrane Installer, and the name of a contact at the site who can discuss the project

3) the names and qualifications of the Geomembrane Fabricator's supervisor(s)

4) thickness and surface area of geomembrane fabricated

5) type of seaming and type of seaming apparatus used

e. Resumes of all personnel who will perform seaming operations on the project including dates and duration of employment

2. All personnel performing seaming operations shall be qualified by experience or by successfully passing seaming tests. At least one seamer shall have experience seaming a minimum of 100,000 ft of geomembrane seams using the same type of apparatus to be used for this project.

D. Installer:

1. The Geomembrane Installer shall be responsible for field handling, storing, deploying, seaming, temporarily restraining (against wind), and other site aspects of the geomembranes and other components of the liner system. The Geomembrane Installer may also be responsible for transportation of these materials to the site, and for anchoring systems.

2. The Geomembrane Installer shall submit to the Owner's Representative and CQA Consultant in writing the following information:

a. Corporate background and information

b. Copy of installer's letter of approval or license by the Geomembrane Manufacturer and/or Geomembrane Fabricator

c. Installation capabilities, including:

1) information on equipment and personnel

2) average daily production anticipated for the project

3) quality control procedures

4) samples of field seams, a certified list of minimum values for seam properties, and the test methods employed

d. A list of at least ten completed facilities for which the Geomembrane Installer has installed polyethylene geomembrane with a minimum combined quantity of 5,000,000 ft^2. The following information shall be provided for each facility:

1) the name and purpose of the facility, its location, and dates of installation

2) the names of the Owner, Project Manager, Engineer, Contractor, Geomembrane Manufacturer, Geomembrane Fabricator (if any), and the name of a contact at the facility who can discuss the project

3) name and qualifications of the Geomembrane Installer's supervisor(s)

4) thickness and surface area of installed geomembrane

5) type of seaming and type of seaming apparatus used

6) duration of installation

7) type of system the installer constructed

e. Resumes of all personnel who will perform seaming operations on this project, including dates and duration of employment

f. Resume of the installation supervisor to be assigned to the project, including dates and duration of employment. The superintendent shall have supervised the installation of a minimum of 2,000,000 ft^2 of polyethylene geomembrane and 500,000 ft^2 of geotextile, geonet, and GCL and must also exhibit good management skills

3. All personnel performing seaming operations shall be qualified by experience or by successfully passing seaming tests:

a. At least one seamer shall have experience seaming a minimum of 5,000,000 ft^2 of polyethylene geomembrane using the same type of seaming apparatus to be used at this site. Seamers with such experience will be designated "master seamers" and shall provide direct supervision over less experienced seamers.

b. All seaming personnel shall have seamed at least 100,000 ft^2 of polyethylene geomembrane using the same type of seaming apparatus to be used at this site.

1.05 SUBMITTALS

A. Prior to transporting any geomembrane to the site, the Contractor shall submit to the Owner's Representative and CQA Consultant in writing the following documentation on the resin used to manufacture the geomembranes:

1. Copies of quality control certificates issued by the resin supplier including production dates of the resin used to manufacture the geomembrane for the project.

2. Results of tests conducted by the Geomembrane Manufacturer to verify the quality of the resin used to manufacture the geomembrane rolls assigned to the project.

3. Certification that no reclaimed polymer is added to the resin during the manufacture of the geomembrane to be used in this project. The use of polymer recycled during the manufacturing process may be permitted if performed with appropriate cleanliness and if the recycled polymer does not exceed 2% by weight of the total polymer weight.

B. The Contractor shall submit to the Owner's Representative and CQA Consultant the following documentation on geomembrane roll production prior to the shipment of the geomembrane rolls:

1. Manufacturing certificates for each shift's production of geomembrane, signed by responsible parties employed by the Geomembrane Manufacturer (such as the production manager), and notarized

2. The quality control certificate shall include:

   a. roll numbers, lot or batch numbers, and product identification

   b. results of quality control tests, including descriptions of the test methods used

C. Prior to commencement of the installation, the Contractor shall submit to the Owner's Representative:

1. A drawing showing the installation layout identifying both fabricated (if applicable) and field seams as well as any variance or additional details which deviate from the Drawings. The layout shall be adequate for use as a construction plan and shall include dimensions, details, etc.

2. Installation schedule

3. A list of personnel who shall perform field seaming operations and details of their prior experience along with resumes

D. During the installation, the Contractor shall be responsible for the timely submission to the Owner's Representative and CQA Consultant of:

1. Quality control documentation

2. Soil surface acceptance certificates, signed by the installer, daily for each area to be covered by the geomembrane

E. Upon completion of the installation, the Contractor shall be responsible for the submission to the Owner's Representative and CQA Consultant of:

1. Geomembrane installation certification

2. Warranties from the Geomembrane Manufacturer, Geomembrane Fabricator, and Geomembrane Installer

F. A Certificate of Calibration less than 12 months old shall be submitted for the field tensiometer used by the Geomembrane Installer in the field.

1.06 CONSTRUCTION QUALITY ASSURANCE

A. The installation of the geomembranes shall be monitored as outlined in the CQA plan.

B. The Contractor shall be aware of the activities in the CQA Plan and shall account for these CQA activities in the installation schedule.

PART 2 - PRODUCTS

2.01 RESIN

A. The geomembrane shall be manufactured from new, first-quality polyethylene resin, and shall be designed and manufactured specifically for use in geomembranes. Reclaimed polymer shall not be added to the resin; however, the use of polymer recycled during the manufacturing process shall be permitted if performed within appropriate guidelines and if the recycled polymer does not exceed 2 percent by weight of the total polymer weight.

B. The resin shall comply with the following PE specified properties:

1. Specific Gravity: 0.94 maximum (ASTM D1505)

2. Carbon Black Content: 2.0 to 3.0 percent

2.02 GEOMEMBRANE PROPERTIES

A. The Geomembrane Manufacturer shall furnish geomembranes having properties that comply with the required property values shown in Tables 02771-1 and 02771-2.

B. In addition to the property values listed in Tables 02771-1 and 02771-2, the geomembranes shall:

1. contain a maximum of 2 percent by weight of additives, fillers, or extenders (not including carbon black)

2. not have striations, roughness, pinholes, or bubbles on the surface or in the interior

3. be produced so as to be free of holes, blisters, modules, undispersed raw materials, or any sign of contamination by foreign matter

4. be manufactured in a single layer (thinner layers shall not be welded together to produce the final required thickness)

2.03 MANUFACTURING QUALITY CONTROL

A. Resin:

1. The Geomembrane Manufacturer shall sample and test the resin to demonstrate that the resin complies with this Section. The Geomembrane Manufacturer shall certify in writing that the resin does meet the Specifications, and shall be held liable for any non-compliance.

2. Any geomembrane manufactured from noncomplying resin shall be rejected.

3. Additional conformance testing, as defined in this Section and in the CQA Plan, may be required at the CQA Consultant's discretion. If the Geomembrane Manufacturer's and the CQA Consultant's test results differ, the tests shall be repeated by the CQA Consultant, and the Geomembrane Manufacturer shall be allowed to monitor this testing. The results of this latter series of tests will prevail, provided that the applicable test methods, as detailed in this Section and the CQA Plan, have been followed.

4. The Geomembrane Manufacturer shall comply with the submittal requirements of Part 1.05 of this Section and the CQA Plan.

B. Rolls:

1. The Geomembrane Manufacturer shall continuously monitor geomembranes during the manufacturing process for inclusions, bubbles, or other defects.

2. Geomembrane rolls shall not be used unless the rolls are subjected to continuous spark testing by the manufacturer at the factory and no defects have been found.

3. No geomembrane shall be accepted which exhibits any defects.

4. The Geomembrane Manufacturer shall continuously monitor the geomembrane thickness during the manufacturing process.

5. No geomembrane shall be accepted which fails to meet the specified minimum thickness.

6. The Geomembrane Manufacturer shall sample for laboratory testing the manufactured geomembrane at the typical frequencies used at manufacturer's plant to demonstrate that its properties conform to the values specified in Tables 02771-1 and 02771-2, whichever applies:

    a. Samples taken from stored rolls shall be taken across the entire width of the roll.

    b. Samples taken at the time of manufacturing can be obtained from the end of the roll.

    c. Unless otherwise specified, samples shall be 3 ft long by the roll width. The Manufacturer shall mark the machine direction on the samples with an arrow.

    d. As a minimum, the following tests shall be performed:

        1) density

        2) thickness

        3) asperity height

        4) tensile strength at yield (if applicable)

        5) elongation at yield (if applicable)

        6) tensile strength at break

        7) elongation at break

        8) carbon black content

        9) carbon black dispersion

7. Samples not meeting the specified properties shall result in the rejection of the applicable rolls as described in this Section and the CQA Plan. The rejected roll shall not be used.

8. In the event of a roll failure, rolls manufactured before and after the rejected roll shall be sampled and tested. This procedure will be repeated until the substandard rolls are identified. The substandard rolls shall not be used.

9. The Geomembrane Manufacturer must certify test results that have been performed on geomembrane sheets made from the same type of resin to be used for this project.

C. Manufacturing Plant Visit:

1. The Geomembrane Manufacturer shall permit the CQA Consultant to visit the manufacturing plant for project specific visits. If possible, such visits will be

prior to or during the manufacturing of the geomembrane rolls for the specific project.

2. During the visit, the CQA Consultant may:

   a. review the manufacturing process, quality control procedures, laboratory facilities, and testing procedures

   b. verify that properties guaranteed by the Geomembrane Manufacturer comply with the specifications

   c. verify that the measurements of properties by the Geomembrane Manufacturer are properly documented and test methods used are acceptable

   d. spot inspect geomembrane rolls for evidence of holes, blisters, or any sign of contamination by foreign matter

   e. review packaging and transportation procedures to verify that these procedures are not damaging the geomembrane

   f. verify that roll packages are labeled in compliance with Part 2.05 of this Section

2.04 PRODUCT QUALIFYING TESTING

A. For each construction event and for the purpose of qualifying the geomembrane products selected for the project, the Engineer shall arrange for interface shear tests to be performed for every type of geomembrane included in the project that is in contact with another type of material included in the project. Tests shall be performed as a single interface test. More specifically, the following interfaces shall be tested:

   1. Interface of the geomembrane with the geocomposite

   2. Interface of the geomembrane with the GCL

B. Interface shear tests shall be performed in accordance with ASTM D 5321. Tests shall consist of at least 4 separate shear tests run at normal stress of 35, 70, 105, and 140 psi for the lining system components. Each interface shall be tested only once. Test parameters shall be provided to the Engineer. The Design Engineer shall perform slope stability analysis using the results reported by the geosynthetics laboratory. The minimum safety factor of 1.5 is required for qualifying the material for use in the project. Each interface shall be evaluated separately.

2.05 GEOMEMBRANE SUPPLY

A. The geomembrane shall be supplied to the site in rolls.

2.06 LABELING

A. Geomembrane shall be labeled with the following information:

1. thickness of the material
2. length and width of the roll or factory panel
3. names of Geomembrane Manufacturer and Geomembrane Fabricator
4. directions to unroll the material
5. product identification
6. lot or batch number
7. roll number

2.07 TRANSPORTATION

A. The Contractor shall be liable for all damages to the materials incurred during transportation to the site.

2.08 HANDLING AND STORAGE

A. Handling, storage, and care of the geomembranes following delivery to the site and prior to and following installation at the site, is the responsibility of the Contractor. The Contractor shall be liable for all damages to the materials incurred prior to final acceptance of the work by the Owner's Representative.

B. The Contractor shall be responsible for storage of the geomembrane at the site. During storage, the geomembrane shall be protected from excessive heat or cold, puncture, cutting, or other damaging or deleterious conditions. The geomembrane shall be stored in accordance with any additional requirements of the Geomembrane Manufacturer.

C. The Owner shall provide adequate storage facilities.

2.09 CONFORMANCE TESTING

A. Upon delivery to the site or at the location of the Geomembrane Manufacturer, samples of the geomembrane shall be removed by the CQA Consultant or the CQA laboratory representative for testing to ensure conformance with this Section.

B. Samples shall be selected by the CQA Consultant in accordance with this Section and with the procedures outlined in the CQA Plan. Conformance tests shall be performed by the Geosynthetics Testing Laboratory in accordance the CQA Plan. The CQA Consultant may increase the frequency of sampling at his/her discretion in the event that test results do not comply with this Section and the CQA Plan.

C. Any geomembranes that are not certified in accordance with this Section, or that conformance testing indicates do not comply with this Section, shall be rejected and not used in the construction.

D. Samples shall be taken at a frequency of one sample per lot or one sample per 100,000 ft^2 of material, whichever requires a greater number of samples. Rolls from

previous construction activities shall be re-tested, unless quality control documentation from the manufacturer and conformance test results for each roll is provided.

E. If a sample fails a conformance test that is conducted by the CQA Consultant:

1. An additional sample from the suspect roll will be collected and analyzed by the CQA Consultant to confirm nonconformance.

2. The Contractor shall replace any roll of geomembrane that is confirmed to be in nonconformance with this Section with a roll that meets the requirements of this Section.

3. The Contractor shall remove conformance samples for testing by a laboratory under the direction of the CQA Consultant from the two rolls at the site having manufacturer's roll numbers closest to that of the failed roll, one of which has a larger number and the other has a lesser number. These two samples must both conform to the requirements of this Section. This procedure is repeated until substandard rolls are identified. The substandard rolls shall not be used in the construction. This additional conformance testing will be at the expense of the Geomembrane Manufacturer.

PART 3 - INSTALLATION OF GEOMEMBRANES

3.01 EARTHWORK

A. Surface Preparation:

1. The Geomembrane Installer shall provide certification in writing that the surface on which the geomembrane will be installed is acceptable. This certification of acceptance shall be given to the CQA Consultant prior to commencement of geomembrane installation in the area under consideration.

2. Special care shall be taken to maintain the prepared soil surface.

3. No geomembrane shall be placed onto an area which has been softened by precipitation or which has cracked due to desiccation. The soil surface shall be observed daily to evaluate the effects of desiccation cracking and/or softening.

4. Any damage to the soil surface caused by installation activities shall be repaired at the Contractor's expense.

B. Crest Anchorage System:

1. The anchor trench shall be excavated prior to geomembrane placement to the lines, grades, and configuration shown on the Drawings.

2. No loose soil shall be allowed beneath the geomembrane.

3. The anchor trench shall be backfilled and compacted after the geosynthetics have been installed in the trench. Care shall be taken when backfilling the trenches to prevent any damage to the geomembrane.

4. Slightly rounded corners shall be provided in the trench where the geomembrane adjoins the trench to avoid sharp bends in the geomembrane.

3.02 GEOMEMBRANE DEPLOYMENT

A. Layout Drawings:

1. The Contractor shall produce layout drawings prior to geomembrane deployment. These drawings shall indicate the geomembrane configuration, dimensions, details, locations of seams, etc. Field seams shall be differentiated from factory seams (if any). The layout drawings must be approved by the Owner's Representative prior to the installation of any geomembranes. The layout drawings, as modified and/or approved by the Owner's Representative, shall become part of these specifications.

B. Field Panel Identification:

1. A geomembrane field panel is defined as follows:

a. If the geomembrane is not fabricated into factory panels, a field panel is a roll or a portion of roll cut in the field.

b. If the geomembrane is fabricated into factory panels, a field panel is a factory panel or a portion of factory panel cut in the field.

2. Each field panel must be given an identification code (number or letter-number) consistent with the layout plan. This identification code shall be agreed upon by the CQA Consultant and Contractor. The field panel identification code shall be related, through a table or chart, to the original resin, and the constituent rolls and factory panels.

C. Field Panel Placement:

1. Field panels shall be installed as approved or modified at the location and positions indicated in the layout drawings.

2. Field panels shall be placed one at a time, and each field panel shall be seamed immediately after its placement.

3. Geomembranes shall not be placed when the ambient temperature is below 32°F, unless otherwise authorized by the Owner.

4. Geomembranes shall not be placed during any precipitation, in the presence of excessive moisture (e.g., fog, dew), in an area of ponded water, or in the presence of excessive winds.

5. The Contractor shall employ placement methods which ensure that:

a. No vehicular traffic shall be allowed on the geomembrane.

b. Equipment used shall not damage the geomembrane by handling, trafficking, leakage of hydrocarbons, or other means.

c. Personnel working on the geomembrane shall not smoke, wear damaging shoes, or engage in other activities which could damage the geomembrane.

d. The method used to unroll the panels shall not scratch or crimp the geomembrane and shall not damage the supporting soil.

e. The prepared surface underlying the geomembrane shall not be allowed to deteriorate after acceptance, and shall remain acceptable up to the time of geomembrane placement.

f. The method used to place the panels shall minimize wrinkles (especially differential wrinkles between adjacent panels).

g. Temporary loads and/or anchors (e.g., sand bags, tires), not likely to damage the geomembrane, shall be placed on the geomembrane to prevent uplift by wind (in high winds, continuous loading is recommended along panel edges to minimize the risk of wind flow under the panels).

h. The geomembrane shall be especially protected from damage in heavily trafficked areas.

6. Any field panel or portion thereof which becomes seriously damaged (torn, twisted, or crimped) shall be replaced with new material at no cost to the Owner. Less serious damage may be repaired at the CQA Consultant's option and at no cost to the Owner. Damaged panels or portions of damaged panels which have been rejected shall be removed from the work area.

3.03 FIELD SEAMING

A. Seam Layout:

1. In general, seams shall be oriented parallel to the line of maximum slope, i.e., oriented down, not across, the slope. In corners and at odd-shaped geometric locations, the number of field seams shall be minimized. No continuous (long) horizontal seam on the slope shall be constructed at greater than 5 ft from the toe of the slope, except where approved by the Engineer. No seams shall be located in an area of potential stress concentration.

B. Personnel:

1. All personnel performing seaming operations shall be qualified as indicated in this Section. No seaming shall be performed unless a "master seamer" is present.

C. Weather Conditions for Seaming:

1. Unless authorized in writing by the Engineer, seaming shall not be attempted at ambient temperatures below 32°F or above 104°F. At ambient temperatures between 32°F and 40°F, seaming shall be allowed if the geomembrane is preheated either by the sun or a hot air device, and if there is no excessive cooling from wind. At ambient temperatures above 40°F, no preheating shall be required. In all cases, the geomembrane shall be dry and protected from wind damage.

2. If the Contractor wishes to use methods which may allow seaming at ambient temperatures below 32°F or above 104°F, he shall use a procedure approved by the Engineer. In addition, an addendum to the Contract between the Owner and the Contractor shall be required which shall specifically state that the seaming procedure does not cause any physical or chemical modification to the geomembrane that will generate any short or long term damage to the geomembrane.

3. Ambient temperatures shall be measured 6 inches above the geomembrane surface.

D. Overlapping and Temporary Bonding:

1. Geomembrane panels shall be overlapped a minimum of 3 inches for extrusion welding and 4 inches for fusion welding, but in any event, sufficient overlap shall be provided to allow peel tests to be performed on the seam.

2. The procedure used to temporarily bond adjacent panels together shall not damage the geomembrane. The temperature of the air at the nozzle of spot welding apparatus shall be controlled such that the geomembrane is not damaged.

E. Seam Preparation:

1. Prior to seaming, the seam area shall be clean and free of moisture, dust, dirt, debris of any kind, and foreign material.

2. If seam overlap grinding is required, the process shall be completed according to the Manufacturer's instructions within one hour of the seaming operation and in a manner that does not damage the geomembrane.

3. Seams shall be aligned with the fewest possible number of wrinkles and "fishmouths".

F. General Seaming Requirements:

1. Seaming shall extend to the outside edge of panels to be placed in the anchor trench.

2. If required, a firm substrate shall be provided by using a flat board, a conveyor belt, or similar hard surface, directly under the seam overlap to achieve proper support.

3. If seaming operations are carried out at night, adequate illumination shall be provided. Night seaming will only be permitted if approved by the Owner's Representative.

4. Fishmouths or wrinkles at the seam overlaps shall be cut along the ridge of the wrinkle to achieve a flat overlap. The cut fishmouths or wrinkles shall be seamed and any portion where the overlap is inadequate shall then be patched with an oval or round patch of the same geomembrane that extends a minimum of 6 inches beyond the cut in all directions.

G. Seaming Process:

1. Approved processes for field seaming are extrusion welding and fusion welding. The primary method of welding shall be fusion. Seaming equipment shall not damage the geomembrane. Only apparatus which the Owner's Representative and CQA Consultant have specifically approved by make and model shall be used. Proposed alternate processes shall be documented and submitted to the Engineer for approval.

2. Extrusion Equipment and Procedures:

   a. The Contractor shall maintain at least one spare operable seaming apparatus on site.

   b. Extrusion welding apparatus shall be equipped with gauges giving the temperature in the apparatus and at the nozzle.

   c. Prior to beginning a seam, the extruder shall be purged until all heat-degraded extrudate has been removed from the barrel. Whenever the extruder is stopped, the barrel shall be purged of all heat-degraded extrudate.

   d. The Contractor shall provide documentation regarding the extrudate to the Owner's Representative and CQA Consultant and shall certify that the extrudate is compatible with the specifications, and consists of the same resins as the geomembrane.

   e. The electric generator shall be placed on rub or scrub sheets. A smooth insulating plate or fabric shall be placed beneath the hot welding apparatus after use.

3. Fusion Equipment and Procedures:

   a. The Contractor shall maintain at least one spare operable seaming apparatus on site.

   b. Fusion-welding apparatus shall be automated vehicular-mounted devices equipped with gauges giving the applicable temperatures and speed.

   c. Fusion cross seams shall be extrusion welded a minimum distance of 6 inches from the point of intersection.

d. A movable protective layer may be used directly below each geomembrane overlap to be seamed to prevent the buildup of moisture between the sheets.

e. The electric generator shall be placed on a smooth base such that no damage occurs to the geomembrane. A smooth insulating plate or fabric shall be placed beneath the hot welding apparatus after use.

H. Trial Seams:

1. Trial seams shall be made on fragment pieces of geomembrane to verify that seaming conditions are adequate. Such trial seams shall be made at the beginning of each seaming period, and at least once every five (5) hours, for each seaming apparatus and the technician assigned to that seaming apparatus used that day. Trial seams shall be made under the same conditions as actual seams. The trial seam sample shall be at least 5 ft long by 1 ft wide (after seaming) with the seam centered lengthwise. Seam overlap shall be as indicated in this Section.

2. Six specimens, each 1.0 inch wide, shall be cut from the trial seam sample by the Contractor. Three specimens shall be tested in shear and three in peel, using a field tensiometer. The test specimens shall not fail in the seam. If a specimen fails, the entire operation shall be repeated. If the additional specimen fails, the seaming apparatus shall not be accepted and shall not be used for seaming until the deficiencies are corrected and two consecutive successful trial seams are achieved.

I. Nondestructive Seam Continuity Testing:

1. The Contractor shall nondestructively test all field seams over their full length using a vacuum test, air pressure test (for double fusion seams only), or other approved method. No vacuum testing shall be used on fusion seams unless approved by the Owner's Representative. Continuity testing shall be carried out as the seaming work progresses, not at the completion of all field seaming. The installer shall complete any required repairs in accordance with this Section. If the seam cannot be tested prior to final installation, the seaming operations shall be observed by the CQA Consultant for uniformity and completeness.

2. Vacuum Testing:

a. The equipment shall comprise the following:

1) A vacuum box assembly consisting of a rigid housing, a transparent viewing window, a soft neoprene gasket attached to the bottom, port hole or valve assembly, and a vacuum gauge

2) A steel vacuum tank and pump assembly equipped with a pressure controller and pipe connections

3) A rubber pressure/vacuum hose with fittings and connections

4) A bucket and applicator

5) A soapy solution

b. The following procedures shall be followed:

1) Energize the vacuum pump and reduce the tank pressure to approximately 5 psi gauge.

2) Wet a strip of geomembrane seam approximately 4 inches by 48 inches with the soapy solution.

3) Place the box over the wetted area.

4) Close the bleed valve and open the vacuum valve.

5) Ensure that a leak tight seal is created.

6) Examine the geomembrane through the viewing window for the presence of soap bubbles for not less than 10 seconds.

7) If no bubbles appear after 10 seconds, close the vacuum valve and open the bleed valve, move the box over the next adjoining area with a minimum 3 inches overlap, and repeat the process.

8) All areas where soap bubbles appear shall be marked (with a marker that will not damage the geomembrane) and repaired in accordance with this Section.

3. Air Pressure Testing (For Double Fusion Seams Only):

a. The following procedures are applicable to those processes which produce a double seam with an enclosed space.

b. The equipment shall comprise the following:

1) An air pump (manual or motor driven), equipped with a pressure gauge, capable of generating and sustaining a pressure between 30 and 35 psi, mounted on a cushion to protect the geomembrane

2) A rubber hose with fittings and connections

3) A sharp hollow needle, or other approved pressure feed device

c. The following procedures shall be followed:

1) Seal both ends of the seam to be tested.

2) Insert needle, or other approved pressure feed device, into the tunnel created by the fusion weld.

3) Insert a protective cushion between the air pump and the geomembrane.

4) Energize the air pump to a pressure between 30 and 35 psi, close valve, allow approximately 2 minutes for the pressure to stabilize between 30 and 35 psi, and sustain the pressure for not less than 5 minutes.

5) If loss of pressure exceeds 3 psi, or does not stabilize, locate faulty area and repair in accordance with this Section.

6) At the conclusion of the pressure test, the end of the seam furthest from the pressure gauge is cut. A decrease in gauge pressure must be observed or the air channel will be considered "blocked" and the test will have to be repeated after correcting the blockage.

7) Remove needle, or other approved pressure feed device, and seal repair in accordance with this Section.

J. Destructive Testing:

1. Destructive seam tests shall be performed on samples collected from selected locations to evaluate seam strength and integrity. Destructive test shall be carried out as the seaming work progresses, not at the completion of all field seaming.

2. Sampling:

a. Destructive test samples shall be collected at a minimum average frequency of one test location per 500 ft of seam length. Test locations shall be determined during seaming, and may be prompted by suspicion of excess crystallinity, contamination, offset seams, or any other potential cause of imperfect seaming. The CQA Consultant will be responsible for choosing the locations. The Contractor shall not be informed in advance of the locations where the seam samples will be taken. The Owner reserves the right to increase the sampling frequency.

b. Samples shall be cut by the Geomembrane Installer at the locations designated by the CQA Consultant as the seaming progresses in order to obtain laboratory test results before the geomembrane is covered by another material. Each sample shall be numbered and the sample number and location identified on the panel layout drawing. All holes in the geomembrane resulting from the destructive seam sampling shall be immediately repaired in accordance with the repair procedures described in this Section. The continuity of the new seams in the repaired areas shall be tested according to this Section.

c. Two strips 1 inch wide and 12 inches long with the seam centered parallel to the width shall be taken. The strips shall be spaced a clear distance of 3.5 ft apart. These samples shall be tested in the field in accordance with this Section. If these samples pass the field test, a laboratory sample shall be taken. The laboratory sample shall be at least 1 ft wide by 3.5 ft long with the seam centered lengthwise. The sample shall be cut into three parts and distributed as follows:

1) One portion 1 ft long to the Installer for laboratory testing

2) One portion 1.5 ft long to the CQA Consultant for laboratory testing

3) One portion 1 ft long to the Owner for archival storage

3. Field Testing:

a. The two 1 inch wide strips shall be tested in the field, by tensiometer, for peel and shear respectively. If any field test sample fails to pass, then the procedures outlined in Part 3.04-J.5 of this Section and the CQA Plan shall be followed.

4. Laboratory Testing:

a. Testing by the CQA Consultant shall include “Seam Strength” and “Peel Adhesion”. The minimum acceptable values to be obtained in these tests are those indicated in Tables 02771-3 and 02771-4. At least 5 specimens shall be tested for each test method. Specimens shall be selected alternately by test from the samples (i.e., peel, shear, peel, shear, …). The CQA Consultant shall provide test results no more than 24 hours after the samples are received at the laboratory.

5. Destructive Test Failure:

a. The following procedures shall apply whenever a sample fails a destructive test, whether the test is conducted by the Owner’s laboratory, the Geomembrane Installer’s laboratory, or by a field tensiometer. The Geomembrane Installer shall have two options:

1) The Geomembrane Installer can reconstruct the seam (e.g., remove the old seam and re-seam) between any two passed test locations.

2) The Geomembrane Installer can trace the welding path to an intermediate location, a minimum of 10 ft from the location of the failed test (in each direction) and take a small sample for an additional field test at each location. If these additional samples pass the tests, then full laboratory samples shall be taken. If these laboratory samples pass the tests, then the seam shall be reconstructed between these locations. If either sample fails, then the process shall be repeated to

establish the zone in which the seam should be reconstructed. In any case, all acceptable seams must be bounded by two locations from which samples passing laboratory destructive tests have been taken. In cases exceeding 150 ft of reconstructed seam, a sample taken from within the reconstructed zone must pass destructive testing. Whenever a sample fails, the CQA Consultant may require additional tests for seams that were formed by the same seamer and/or seaming apparatus or seamed during the same time shift.

K. Defects and Repairs:

1. The geomembrane will be inspected before and after seaming for evidence of defects, holes, blisters, undispersed raw materials and any sign of contamination by foreign matter. The surface of the geomembrane shall be clean at the time of inspection. The geomembrane surface shall be swept or washed by the Geomembrane Installer if surface contamination inhibits inspection. The Geomembrane Installer shall ensure that an inspection of the geomembrane precedes any seaming of that section.

2. Each suspect location, both in seam and non-seam areas, shall be nondestructively tested using the methods described in Part 3.04-I of this Section, as appropriate. Each location which fails nondestructive testing shall be marked by the CQA Consultant and repaired by the Geomembrane Installer.

3. When seaming of a geomembrane is completed (or when seaming of a large area of a geomembrane is completed) and prior to placing overlying materials, the CQA Consultant shall identify all excessive geomembrane wrinkles. The Geomembrane Installer shall cut and reseam all wrinkles so identified. The seams thus produced shall be tested like any other seams.

4. All fusion and extrusion welded seams intersections shall be patched.

5. Repair Procedures:

   a. Any portion of the geomembrane exhibiting a flaw, or failing a destructive or nondestructive test, shall be repaired by the Geomembrane Installer. Several repair procedures exist. The final decision as to the appropriate repair procedure shall be agreed upon between the CQA Consultant and the Geomembrane Installer. The procedures available include:

      1) patching, used to repair holes, tears, seam intersections, undispersed raw materials, and contamination by foreign matter

      2) abrading and reseaming, used to repair small sections of extruded seams

3) spot seaming, used to repair minor localized flaws and surface damage

4) capping, used to repair long lengths of failed seams

5) removing failed seam lengths and replacing with a strip of new material seamed into place (typically used with long lengths of fusion seams)

b. In addition, the following shall be satisfied:

1) surfaces of the geomembrane which are to be repaired shall be abraded no more than one hour prior to the repair.

2) all surfaces must be clean and dry at the time of repair.

3) all seaming equipment used in repair procedures must be approved.

4) the repair procedures, materials, and techniques shall be approved in advance, for the specific repair, by the CQA Consultant.

5) patches or caps shall extend at least 6 inches beyond the edge of the defect, and all corners of patches shall be rounded with a radius of at least 3 inches.

6) the geomembrane below large caps shall be appropriately cut to avoid water or gas collection between the two sheets.

6. Repair Verification:

a. Each repair shall be numbered and logged and shall be nondestructively tested, as appropriate. Repairs which pass the nondestructive test shall be taken as an indication of an adequate repair. Failed tests will require the repair to be redone and retested until a passing test results. At the discretion of the CQA Consultant, destructive testing may be required on large caps.

3.04 MATERIALS IN CONTACT WITH THE LINER

A. The Contractor shall take all necessary precautions to ensure that the geomembrane is not damaged during its installation or during the installation of other components of the liner system or by other construction activities. Installation on rough surfaces, such as concrete, shall be performed carefully. If approved by the Engineer, additional loosely placed geotextile sections may be used by the Contractor to protect the geomembrane.

B. Granular materials shall not be placed on the geomembranes at ambient temperatures below 40°F or above 104°F, unless otherwise specified. A geotextile or other cushion approved by the Engineer shall be installed between angular aggregate and the geomembrane.

C. Equipment shall not be driven directly on the geomembrane. Unless otherwise specified by the CQA Consultant, all equipment operating on materials overlying the geomembrane shall comply with the following:

Maximum Allowable Equipment Ground Pressure (psi)	Thickness of Overlying Compacted Fill (inches)
<5	12
<10	18
<20	24
>20	36

D. In heavily trafficked areas such as access ramps, and in areas trafficked by rubber tire vehicles, the thickness of overlying compacted fill should be at least 3 ft.

E. Appurtenances:

1. Installation of the geomembrane in sump areas, and connection of the geomembrane to appurtenances, shall be made according to the specifications. Extreme care shall be taken while seaming around sumps and appurtenances since neither nondestructive nor destructive testing may be feasible in these areas. The Geomembrane Installer shall ensure that the geomembrane has not been visibly damaged while making connections to sumps or appurtenances.

2. All clamps, slips, bolts, nuts, or other fasteners used to secure the geomembrane to each appurtenance shall be at least as durable as the geomembrane.

3.05 GEOMEMBRANE ACCEPTANCE

A. The Contractor shall retain all ownership and responsibility for the geomembrane until accepted by the Owner's Representative.

B. The geomembrane shall be accepted by the Owner's Representative when:

1. the installation is finished

2. all documentation of installation is completed including the CQA Consultant's final report

3. verification of the adequacy of all field seams and repairs, including associated testing, is complete

4. written certification documents, including record drawings, sealed by a Professional Engineer currently registered in the State in which the project is located, have been received by the Owner

3.06 PRODUCT PROTECTION

A. The Contractor shall use all means necessary to protect all prior work and all materials and completed work of other Sections.

B. In the event of damage, the Contractor shall make all repairs and replacements necessary, to the approval of the Owner's Representative and at no additional cost to the Owner.

TABLE 02771-1

LINING SYSTEM TEXTURED 60-MIL HDPE GEOMEMBRANE PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES (1)	TEST METHOD
Physical Properties				
Thickness	min. ave. lowest individual value	mils mils	57 51	ASTM D 5994 ASTM D 5994
Density	minimum	g/cm³	0.94	ASTM D 1505
Mechanical Properties				
Asperity Height	min. ave.	mils	20	ASTM D 7466
Tensile Properties (each direction):				
Tensile Strength (yield)	minimum	lb/in	132	ASTM D 6693 Type IV
Tensile Strength (break)	minimum	lb/in	132	ASTM D 6693 Type IV
Elongation (yield)	minimum	%	13	ASTM D 6693 Type IV
Elongation (break)	minimum	%	350	ASTM D 6693 Type IV
Tear Resistance	minimum	lb	45	ASTM D 1004
Puncture Resistance	minimum	lb	120	ASTM D 4833
Environmental Properties				
Carbon Black Content	range	%	2.0 - 3.0	ASTM D 4218
Carbon Black Dispersion	N/A	none	Cat. 1&2 (9 of 10) Cat. 3 (1 of 10)	ASTM D 5596
Stress Crack Resistance	minimum	hrs	500	ASTM D 5397
Oxidative Induction Time (OIT) Standard OIT[3]	min. ave.	min	100	ASTM D 8117
Oven Aging at 85°C, Standard OIT retained after 90 days[3]	min. ave.	%	55	ASTM D 5721 ASTM D 8117
UV Resistance, High Pressure OIT - % retained after 1600 hrs[3]	min. ave.	%	50	ASTM D 7238 ASTM D 5885

NOTES:
1. All values represent minimum average roll values (i.e., any roll in a lot should meet or exceed the values in this table).
2. If the manufacturers' certified minimum or maximum values are more stringent than the specified values herein, the manufacturers' certified minimum or maximum value shall become the specified value.
3. Tests are to be performed once every 5 years unless there is a change in the formulation or manufacturer.
4. Any variation to these specifications must be at the Engineer's approval.

TABLE 02771-2

LINING SYSTEM TEXTURED 40-MIL HDPE GEOMEMBRANE PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES (1)	TEST METHOD
Physical Properties				
Thickness	minimum average	mils	38	ASTM D 5994
	minimum indiv.	mils	36	ASTM D 5994
Density	maximum	g/cm^3	0.94	ASTM D 1505
Mechanical Properties				
Asperity Height	min. ave	mils	20	ASTM D 7466
Tensile Properties (each direction):				
Tensile Strength (yield)	minimum	lb/in	88	ASTM D 6693 Type IV
Tensile Strength (break)	minimum	lb/in	88	ASTM D 6693 Type IV
Elongation (yield)	minimum	%	13	ASTM D 6693 Type IV
Elongation (break)	minimum	%	350	ASTM D 6693 Type IV
Tear Resistance	minimum	lb	30	ASTM D 1004
Puncture Resistance	minimum	lb	90	ASTM D 4833
Environmental Properties				
Carbon Black Content	range	%	2.0 - 3.0	ASTM D 4218
Carbon Black Dispersion	N/A	none	Cat. 1&2 (9 of 10) Cat. 3 (1 of 10)	ASTM D 5596
Environmental Stress Crack	minimum	Hrs	500	ASTM D 5397

NOTES:

1. All values represent minimum average roll values (i.e., any roll in a lot should meet or exceed the values in this table).
2. If the manufacturers' certified minimum or maximum values are more stringent than the specified values herein, the manufacturers' certified minimum or maximum value shall become the specified value.
3. Any variation to these specifications must be at Engineer's approval.

TABLE 02771-3

LINING SYSTEM TEXTURED 60-MIL HDPE GEOMEMBRANE SEAM PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES (1)		TEST METHOD
			FUSION	EXTRACTION	
Shear Strength	minimum	lb/in	120	120	ASTM D 6392
Shear Elongation (at break)	maximum	%	50	50	ASTM D 6392
Peel Adhesion	minimum	lb/in	91	78	ASTM D 6392
Peel Separation	maximum	%	25	25	

NOTES:

1. If the manufacturers' certified minimum or maximum values are more stringent than the specified values herein, the manufacturers' certified minimum or maximum value shall become the specified value.
2. Any variation to these specifications must be at Engineer's approval.

TABLE 02771-4

LINING SYSTEM TEXTURED 40-MIL HDPE GEOMEMBRANE SEAM PROPERTIES

PROPERTIES	QUALIFIERS	UNITS	SPECIFIED VALUES (1)		TEST METHOD
			FUSION	EXTRACTION	
Shear Strength	minimum	lb/in	80	80	ASTM D 6392
Peel Adhesion	minimum	lb/in	60	52	ASTM D 6392
Peel Separation	maximum	%	25	25	

NOTES:

1. If the manufacturers' certified minimum or maximum values are more stringent than the specified values herein, the manufacturers' certified minimum or maximum value shall become the specified value.
2. Any variation to these specifications must be at Engineer's approval.

[END OF SECTION]

TECHNICAL SPECIFICATIONS FOR EXPANSION CELL CONSTRUCTION AT THE MOHAVE VALLEY SANITARY LANDFILL MOHAVE COUNTY, ARIZONA

MESA DISPOSAL
967 Hancock Road, Suite 141
Bullhead City, Arizona 86442
(520) 758-0000

and

THE COUNTY OF MOHAVE
3675E. Andy Devine, Suite C
Kingman, Arizona 86401
(520) 757-0910

Prepared by:

VECTOR ENGINEERING, INC.
1601 Fairview Avenue, Suite H
Carson City, Nevada 89701
(702) 883-7065

Project No. 96.5014.02
September, 1997

SECTION 02110
CLEARING AND GRUBBING

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to perform all related work as specified herein, as shown on the Contract Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan.

B. The Contractor shall be prepared to construct the work included in this Section in conjunction with other construction activities.

C. The work of this Section shall include, but not necessarily be limited to: clearing, grubbing, removal, stockpiling and disposal of vegetation, rocks, roots and debris within the limits of the work except objects designated on the Contract Drawings to remain.

D. Installation of approved erosion control measures.

1.02 RELATED SECTIONS

A. Section 02210: Site Grading

B. Section 02240: Recompacted Soil

1.03 LIMITS OF WORK

A. Rights-of-way established by the Owner or the Owner's Authorized Representative.

B. Construction area including the area bounded by lines ten feet outside the construction lines established by the Owner or the Owner's Authorized Representative.

1.04 PROTECTION

A. The Contractor shall protect living trees and shrubs not marked for removal within the construction area and those outside the construction area. Cut or scarred surfaces of trees or shrubs shall be treated with a paint prepared especially for tree surgery.

B. Bench marks and existing structures, liners, pipes, utilities, roads, sidewalks, paving and curbs shall be protected against damage from vehicular or foot traffic.

C. Designated temporary roadways, walkways and detours for vehicular and pedestrian traffic shall be maintained.

D. The Contractor shall be responsible for the expense and repair of any and all structure's, to include, but not necessarily limited to items A through C above, that are damaged as a result of Contractor Operations.

E. The Contractor shall conduct all work of this contract in conformance with the requirements and standard specifications of the County of Mohave.

PART 2 - PRODUCTS

2.01 EROSION CONTROL

A. All temporary and permanent berms, ditches, and other drainage structures used for erosion and sediment control shall be installed using on-site materials or as specified on the Contract Drawings.

2.02 CONSTRUCTION WATER

A. Water for construction and dust control shall be provided by the Contractor from an off-site water source. The Contractor shall determine his construction water requirements prior to bidding and shall be responsible for supplying an adequate amount of water. The Owner and the Owner's Authorized Representative shall not be responsible for providing additional water. The Contractor shall be responsible for obtaining water and transporting it to the construction site.

PART 3 - EXECUTION

3.01 PREPARATION

A. The Contractor shall maintain bench marks, monuments and other reference points and re-establish at no cost to the Owner or the Owner's Authorized Representative if disturbed or destroyed. The Contractor shall also furnish all labor, materials, supervision and equipment necessary to complete site preparation for the proposed construction, including, but not limited to final grading, hauling, scraping, stockpiling, drainage, and removing of accumulated water during construction.

3.02 EROSION CONTROL

A. Erosion and sediment control measures and devices shall be incorporated by the Contractor into daily construction activities as needed to protect all work areas and drainage facilities. Erosion and sediment control measures shall be performed in a timely manner following clearing and grubbing. The measures shall be in accordance with the Contract Drawings, Specifications, and all applicable Federal, State, and local regulations.

3.03 CLEARING AND GRUBBING

A. The Contractor shall clear vegetation from areas for the Waste Management Unit, roadways, and stockpiles.

B. The Contractor shall perform clearing and grubbing well in advance of construction or material removal activities.

C. The Contractor shall assume full responsibility and shall not cut or injure any trees or other vegetation outside the limits of the construction areas without permission, and shall guard against like action by his employees and sub-contractors.

D. The Contractor shall review with the Owner, the Owner's Authorized Representative, or the CQA Consultant, the location, limits, and methods to be used prior to commencing the Work under this section.

E. The contract shall be responsible for all expense and work necessary to correct deficiencies as a result of the Owner not reviewing all pertinent documentation.

3.04 BACKFILLING AND SURFACE PREPARATION

A. The Contractor shall backfill and compact all depressions resulting from clearing and grubbing, as required, with suitable materials in accordance with Section 02210.

1. Diversion berm areas shall be backfilled and compacted to natural ground elevation, unless otherwise specified on the contract drawings.

B. The Contractor shall perform backfilling and compacted at a satisfactory distance ahead of construction operations so as not to cause a delay or interference with construction operations or other contractors. The Contractor shall be responsible for all expenses due to delays in scheduled construction operations.

3.05 DEBRIS REMOVAL

A. All material collected in the course of the clearing and grubbing shall be disposed of in a manner consistent with applicable State and County regulations. Such disposal shall occur after removal of the materials in the clearing and grubbing operations and shall not be left until the final clean up period, unless specified by the Owner or the Owner's Authorized Representative.

B. Prior to depositing surplus material at any off-site location, the Contractor shall obtain a written agreement between himself and the owner of the property on which the disposal is proposed. The agreement shall state that the owner of the property gives permission for the Contractor to enter and deposit the material at no expense to the Owner or the Owner's Authorized Representative. A copy of the agreement shall be furnished to the Owner prior to removing any material from the site. In all instances, the Contractor is responsible for the disposal of all necessary materials at his sole expense.

3.06 SURVEY CONTROL

A. All construction coordinate systems are to be based on the aerial survey coordinate system (state plane coordinates) provided in the Contract Drawings. Survey information is to tie into permanent monuments (minimum of two) established at the construction site.

B. The Contractor shall be responsible for maintaining all lines and grades as specified on the Contract Drawings. The Contractor shall be responsible for the placement of all stakes necessary to maintain said lines and grades. In the event that any control points are damaged during said construction activities, the Contractor shall be responsible to replace or repair control points at his expense.

3.07 UNUSUAL CONDITIONS

A. In the event that any unusual conditions not covered by the Contract Drawings or these Specifications are encountered during grading operations, the Contractor shall notify the Owner, or the Owner's Authorized Representative, who will then notify the Engineer of Record for directions.

END OF SECTION

SECTION 02210
SITE GRADING

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to perform all related work as specified herein, as shown on the Contract Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan.

B. The Contractor shall be prepared to construct the work included in this Section in conjunction with other construction activities.

C. The work of this Section shall include, but not necessarily be limited to: locating the limits of the Waste Management Units; rough grading which may require both cut and fill; and hauling and stockpiling selected material which is required for specific use in the construction.

D. Compacting of any materials shall be conducted in accordance with this section, and the standard specifications.

1.02 RELATED SECTIONS

A. Section 02220: Excavation, Backfilling, and Compaction

B. Section 02240: Recompacted Soil

1.03 EXISTING CONDITIONS

A. Known underground, surface and aerial utility lines, buried liner systems and other objects are indicated on the Contract Drawings. The Contractor is to verify the exact location of all existing structures or utilities that may be within 50 feet of the construction area, proposed access roads, and borrow areas prior to commencement of work. The Contractor shall inspect and become familiar with the site and all related work items in accordance with Part 3 of this Section.

B. The contractor shall be responsible for all repairs and replacement expenses, in the event that damage occurs to any underground, surface or aerial utility line or appurtenances which are to remain.

1.04 PROTECTION

A. The Contractor shall protect and maintain benchmarks, liner systems, existing structures, wells, fences, roads, sidewalks, paving, and curbs against damage from equipment and vehicular traffic.

B. The Contractor shall protect aerial, surface, or underground utility lines or appurtenances which are to remain.

C. The Contractor shall repair damage caused by the construction operations at no cost to the Owner.

D. Erosion control must be maintained in accordance with applicable laws and regulations.

PART 2 - PRODUCTS

2.01 CONSTRUCTION WATER

A. Water for construction and dust control shall be provided by the Contractor from an off-site water source. The Contractor shall determine his construction water requirements prior to bidding and shall be responsible for supplying an adequate amount of water. The Owner shall not be responsible for providing additional water. The Contractor shall be responsible for obtaining water and transporting it to the construction site.

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any of the work described in this Section, the Contractor shall become thoroughly familiar with all portions of the work falling within this Section, including the CQA Plan.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections (including adjacent phases of construction) and verify that all work is complete to the point where the related construction may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, he shall notify the Owner, the Owner's Authorized Representative, or the CQA Consultant in writing within 48 hours after his site inspection and before commencement of the work described in this Section. Failure to inform the Owner in writing or commencement of work described in this Section will be construed as the Contractor's acceptance of the related work of all other Sections.

3.02 PREPARATION

A. The Contractor shall maintain bench marks, monuments and other reference points and re-establish at no cost to the Owner or the Owner's Authorized Representative if disturbed or destroyed. The Contractor shall also furnish all labor, materials, supervision and equipment necessary to complete site preparation for the proposed construction, including, but not limited to final grading, hauling, scraping, stockpiling, drainage, and removing of accumulated water during construction.

B. The Contractor shall establish and identify required lines, levels, contours, and datum.

C. The Contractor shall protect and maintain benchmarks, monuments, and other reference points and re-establish if disturbed or destroyed, at no cost to the Owner.

D. Before start of grading, the Contractor shall establish the location and extent of utilities in the work areas. The Contractor shall notify the Owner or Owner's Authorized Representative if any utilities which are in the construction area need to be removed or relocated. Removal and permanent relocation of utilities are not part of the work covered by these specifications.

E. The Contractor shall, at is expense, maintain, protect, reroute, or extend as required existing utilities to remain, which pass through the work area.

3.03 GRADING

A. The Contractor shall rough grade the site and Waste Management Unit to required levels, profiles, contours and elevations ready for finish grading and surface treatment.

B. The Contractor shall uniformly grade areas to a smooth surface, free from irregular surface changes. The Contractor shall comply with compaction requirements and grade to cross sections, lines, and elevations indicated on the construction plans.

C. The Contractor shall provide a smooth transition between existing adjacent grades and new grades, and shall cut out soft spots, fill low spots, and trim high spots to conform to required surface tolerances.

D. All cut and fill slopes shall not exceed slopes steeper than 3:1 (horizontal to vertical) or shall be no steeper than slopes shown on the Contract Drawings. The Contractor shall provide smooth transitions to existing and new grades in accordance with construction plans. Slopes determined to be exceeding steep will be adjusted at no cost to the Owner or Owner's Authorized Representative.

E. The material excavated from the construction area shall be segregated and stockpiled in the appropriate areas as determined by the Owner, the Owner's Authorized Representative, the CQA Consultant, or as designated on the Contract Drawings.

F. In areas to receive placement of waste (i.e., Waste Management Unit base and sideslopes), the subgrade shall be excavated to within one (1.0) foot of the lines and grades shown on the Contract Drawing. Following excavation, the surface shall be prepared as described in Part 3.04(G), below.

G. Prior to placing waste fill over undisturbed subsoil or upon completion of excavation to subgrade, the subgrade shall be proof-rolled with a loaded dump truck or similar pneumatic tired vehicle under the observation of the Owner, the Owner's Authorized Representative, or the CQA Consultant. Should subgrade soils pump or yield, the Contractor shall blade, fill, and compact as necessary to achieve a acceptable surface for vehicle traffic. The finished subgrade shall be

placed to within one (1.0) foot of the grades specified on the Contract Drawings.

H. Should efforts to achieve an appropriate in-place subgrade foundation be unsuccessful, the Contractor shall excavate the material and replace it with prepared subgrade material as specified in Section 02240. Undercutting shall not be permitted except at the direction of the Owner, the Owner's Authorized Representative, or the CQA Consultant.

1. Undercutting shall be done in close conformity with the lines, and grades shown on the Contract Drawings or established by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

2. The Contractor shall construct surface water diversion berms with on-site native materials as designated by the Owner, the Owner's Authorized Representative, or the CQA Consultant. The berm shall be constructed in horizontal layers not exceeding eight (8) inches in uncompacted depth. Each layer shall be compacted by wheel rolling or by other methods approved by the Owner, the Owner's Authorized Representative, or the CQA Consultant. Compaction testing or other quality control measures will not be required for the diversion berm. The diversion berms shall be constructed as shown on the Contract Drawings.

3. Diversion ditches, either permanent or temporary, shall be constructed in accordance with the Contract Drawings. The Contractor shall be responsible for constructing diversion ditches as required to divert run-on around the construction area. The construction of temporary ditches not shown on the Contract Drawings shall not be undertaken until the Contractor's plan for constructing the ditches is approved by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

3.04 SURVEY CONTROL

A. The Contractor shall provide for surveying the location and elevation of the foundation layer in accordance with the site's approved horizontal and vertical control system. Surveying shall be performed by a registered land surveyor and in accordance with the CQA Plan using a sketch system. The survey shall consist of obtaining a set of spot elevations every 100 feet along the length of the excavation. A set of spot elevations consists of obtaining elevations along well defined hinge lines, grade breaks, and center lines of drainage channels, or as specified by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

B. The Contractor shall obtain the elevations shown on the Contract Drawings within a tolerance of one (1.0) foot or as specified by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

C. The Owner may supply surveying for QA purposes and verification of payment quantities. The Contractor shall provide surveying for QC purposes, Record Drawings, and quantity estimates.

D. The Owner may supply surveying for quality assurance purposes and verification of payment quantities.

3.05 CLEAN-UP AND DISPOSAL OF DEBRIS

A. The Contractor shall remove surplus materials and debris from site at no cost to the Owner.

B. Prior to depositing surplus material at any off-site location, the Contractor shall obtain a written agreement between himself and the owner of the property on which the disposal is proposed. The agreement shall state that the owner of the property gives permission for the Contractor to enter and deposit the material at no expense to the Owner or the Owner's Authorized Representative. A copy of the agreement shall be furnished to the Owner prior to removing any material from the site. In all instances, the Contractor is responsible for the disposal of all necessary materials at his sole expense.

3.06 UNUSUAL CONDITIONS

A. In the event that any unusual conditions not covered by the Contract Drawings or these Specifications are encountered during grading operations, the Contractor shall notify the Owner, or the Owner's Authorized Representative, who will then notify the Engineer of Record for directions.

END OF SECTION

SECTION 02220
TRENCHING, BACKFILLING, AND COMPACTION

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to perform all related work as specified herein, as shown on the Contract Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan.

B. The Contractor shall be prepared to construct the work included in this Section in conjunction with other construction activities.

C. The work of this Section shall include, but not necessarily be limited to: excavation for piped utility material; provision of necessary sheeting, shoring, and bracing; preparation of the trench bottom with appropriate materials; dewatering of the excavation as required; and, placement and compaction of backfill materials.

1.02 RELATED SECTIONS

A. Section 02210: Site Grading

B. Section 02720: Storm Sewerage

1.03 PRECAUTIONS

A. The Contractor shall notify utility companies when it becomes necessary to disturb existing facilities and shall abide by the utility company requirements for repair and replacement.

B. All trenches shall be excavated and shored, if necessary, in accordance with 29 CFR Part 1926, Occupational Safety and Health Standards - Excavations; Final Rule and all applicable standards.

1.04 PROTECTION

A The Contractor shall protect all vegetation and other features to remain.

B. The Contractor shall protect all bench marks and survey points.

C. In the event of damage to vegetation, benchmarks, surveying points, or any structures intended to not be disturbed, the contractor shall be responsible for all repairs and replacement expenses.

PART 2 - PRODUCTS

2.01 PIPE BEDDING GRAVEL MATERIAL

A. The pipe bedding gravel (for culverts and piping not within the solid waste cell) material shall be in accordance with AASHTO No. 57 or Arizona Department of Transportation (ADOT) classification equivalent to angular crushed stone with particle size ranging between 1/4 inch to 1 inch. Other materials and material with regional significance such as cinders, slag, and crushed shells will be acceptable at the Owner, the Owner's Authorized Representative's approval.

2.02 CONSTRUCTION WATER

A. Water for construction and dust control shall be provided by the Contractor from an off-site water source. The Contractor shall determine his construction water requirements prior to bidding and shall be responsible for supplying an adequate amount of water. The Owner shall not be responsible for providing additional water. The Contractor shall be responsible for obtaining water and transporting it to the construction site.

2.03 SOIL BACKFILL MATERIAL

A. The soil backfill material shall be the on-site soil materials, or other materials approved by the Owner, the Owner's Authorized Representative, or the CQA Consultant, with maximum allowable particle size of three (3) inches in the longest dimension. The backfill material shall be free of debris, foreign objects, roots, and organics.

PART 3 - EXECUTION

3.01 PREPARATION

A. The Contractor shall install barriers and other devices to protect areas adjacent to construction.

B. The Contractor shall protect and maintain all bench marks and other survey points.

3.02 EXCAVATION - TRENCHES

A. Excavation shall be performed in such a manner as to form a suitable trench in which to place the pipe and which causes the least inconvenience to the public.

B. Maximum width at the crown of the pipe shall be two (2) feet plus the nominal diameter of the pipe, unless approved specifically by the Owner, the Owner's Authorized Representative, or the CQA Consultant due to unusual bracing and shoring requirements. The minimum width at the crown at the pipe shall be one (1) foot plus the nominal pipe diameter.

C. Pavement shall be cut along neat, straight lines with either a pavement breaker or pavement saw.

D. Trench depth shall be as specified on the Contract Drawings or be of a minimum depth equal to twenty four (24) inches of cover soil plus the diameter of the pipe, plus one half the pipe diameter for the bedding layer.

E. The Contractor shall align trenches as shown on the Contract Drawings. In the event that a change is necessary to miss an unforeseen obstruction, the Contractor shall contact the Owner or the Owner's authorized representative for written guidance prior to proceeding. In the event that the trenches are aligned incorrectly, due to the Contractor proceeding without written authorization, the Contractor shall be solely responsible for all costs associated with trench re-alignment.

F. When unstable soil is encountered at the trench bottom, the Contractor shall remove it to a depth required to assure support of the pipeline and backfill to the proper grade with the pipe bedding material.

3.03 SHEETING, SHORING, AND BRACING

A. When necessary, the Contractor shall furnish, put in place, and maintain such sheeting, bracing, etc., as may be required to support the sides of the excavation and to prevent movement.

B. Care shall be taken to prevent voids outside the sheeting.

C. If voids are formed, they shall be immediately filled and compacted.

D. Shoring shall be cut off at the top of the pipe with the lower section left in the trench.

E. Contractor shall be responsible for performance and safety on all sheeting, shoring, and bracing.

F. All open excavations greater than five feet in depth shall be constructed with bracing, sheeting, shoring, sloping or other equivalent method designed for the protection of life and limb. The support system shall comply in all respects with the requirements of the Construction Safety Orders of the Division of Industry Safety, or if the system varies from that standard, it shall be designed and signed by the Engineer, civil or structural, who is registered in the State of Arizona. Prior to commencing the work, the Contractor shall submit his plans for trench and excavation support systems to the Owner, the Owner's Authorized Representative, or the CQA Consultant for review and comment. No excavations shall be started until the engineer has furnished written acceptance of the trench support system. Said review will be to assure the Engineer of general compliance with all Federal, State, and Local Standards. Review shall not be construed as a detail analysis for adequacy of the support system, nor shall any provisions of the above requirements be construed as relieving the Contractor of his overall responsibility and liability for the work.

3.04 DISPOSAL OF EXCAVATED MATERIAL

A. The Contractor shall satisfactorily dispose of all excess excavated material that cannot be used.

B. Prior to depositing surplus material at any off-site location, the Contractor shall obtain a written agreement between himself and the owner of the property on which the disposal is proposed. The agreement shall state that the owner of the property gives permission for the Contractor to enter and deposit the material at no expense to the Owner or the Owner's Authorized Representative. A copy of the agreement shall be furnished to the Owner prior to removing any material from the site. In all instances, the Contractor is responsible for the disposal of all necessary materials at his sole expense.

3.05 UNAUTHORIZED EXCAVATION

A. All excavation outside or below the proposed lines and grades shown on the Contract Drawings or directed by the Owner or Owner's Authorized Representative shall be considered unauthorized excavation.

B. The Contractor shall backfill areas of unauthorized excavation with the type of material necessary (e.g., soil, rock, or concrete) in accordance with this Section at no cost to the Owner, to insure the stability of the structure or construction involved.

3.06 REMOVAL OF WATER

A. The Contractor shall keep excavated areas free of water while work is in progress.

B. Well-pointing shall be performed if required.

C. The Contractor shall take particular precautions to prevent the displacement of structures or pipelines as a result of accumulated water.

3.07 OBSTRUCTIONS

A. Obstructions shown on the Contract Drawings are for information only and do not guarantee their exact locations nor exclude the presence of other obstructions.

B. When utilities or obstructions are not shown on the Contract Drawings but are present at the location of proposed pipeline route outside the roadway, the Contractor may request to relocate the pipeline in the roadway, if necessary, to avoid disturbing the utility or obstructions.

C. The Contractor shall exercise due care in excavating adjacent to existing obstructions and shall not disturb same.

D. In the event obstructions are disturbed, the Contractor shall repair or replace them as quickly as possible to the condition existing prior to their disturbance. This repair or replacement will not be a pay item.

E. If desired by the utility company, the Contractor shall pay for the repair or replacement work performed by the forces of the utility company or other appropriate party.

F. If replacement or repair of disturbed obstructions is not performed after a reasonable period of time, the Owner may have the necessary work done and deduct the cost of same from payments to the Contractor.

3.08 PIPE BEDDING GRAVEL BACKFILLING

A. The Contractor shall deposit a six (6) inch bedding layer of material meeting the requirements of this Section in the bottom of the trench.

B. Backfilling shall not begin before the Operator has inspected the grade and alignment of the pipe, the bedding of the pipe, and the joints between the pipe. If backfill material is placed over the pipe before an inspection is made, the Contractor shall reopen the trench in order for an inspection to be made, at his own expense.

C. The Contractor shall deposit pipe bedding gravel, together with hand tamping in loose lifts not exceeding eight (8) inches to an elevation of one-half the height of the pipe.

3.09 SOIL BACKFILLING

A. After the pipe bedding gravel has reached one-half the height of the pipe, the Contractor shall perform soil backfilling with material meeting the requirements of this Section in six (6) inch lifts depending upon the location of the work and danger from subsequent settlement.

B. When backfilling in unimproved areas the Contractor shall:

1. Dispose of and replace all soft or yielding material which is unsuitable for trench backfill with suitable material;

2. Deposit backfill to the surface of the ground by dragline, bulldozer, or other suitable equipment in such a manner which does not disturb the pipe;

3. Neatly round sufficient surplus excavated material over the trench to compensate for after settlement;

4. Dispose of all surplus excavated material, at his own expense; and,.

5. Prior to final acceptance, remove all mounds to the elevation of the surrounding terrain.

3.07 UNUSUAL CONDITIONS

A. In the event that any unusual conditions not covered by the Contract Drawings or these Specifications are encountered during trenching operations, the Contractor

shall notify the Owner, or the Owner's Authorized Representative, who will then notify the Engineer of Record for directions.

END OF SECTION

SECTION 02240
RECOMPACTED SOIL

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary to perform all earthwork related to construction of recompacted soil, prepared subgrade preparation, or subgrade preparation as specified herein, as shown on the Contract Drawings, and in accordance with the Construction Quality Assurance (CQA) Plan.

B. The Contractor shall be prepared to construct the recompacted soil in conjunction with other construction activities.

C. The work of this Section shall include, but not necessarily be limited to: hauling, backfilling, compacting, and grading of soils. The work of this Section may pertain in whole or in part to construction of the following: the Waste Management Unit, subgrade, roads, and trenches. The Contractor shall conform to the dimensions, lines, and grades specified on the Contract Drawings.

1.02 RELATED SECTIONS

A. Section 02210: Site Grading

B. Section 02220: Excavation, Backfilling, and Compaction

C. Section 02720: Storm Sewerage

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan.

B. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 422, Standard Method for Particle-Size Analysis of Soils.

2. ASTM D 698, Standard Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using a 5.5-lb (2.49-kg) Rammer and 12-in. (305-mm) Drop.

3. ASTM D 1556, Standard Test Method for Density of Soil In Place by the Sand-Cone Method.

4. ASTM D 2216, Standard Method for Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures.

5. ASTM D 2487, Standard Test Method for Classification of Soils for Engineering Purposes.

6. ASTM D 2922, Standard Test Methods for Density of Soil and Soil-Aggregate In Place by Nuclear Density Methods (Shallow Depth).

7. ASTM D 3017, Standard Test Method for Water Content of Soil and Rock In Place by Nuclear Methods (Shallow Depth).

8. ASTM D 4220, Standard Practices for Preserving and Transporting Soil Samples.

9. ASTM D 2937, In-Place Density as a Check on Nuclear Densimeter Measurements.

1.04 SUBMITTALS AND QUALIFICATIONS

A. The Contractor shall submit to the Owner or the Owner's Authorized Representative, and to the CQA Consultant for review a letter describing the proposed methods of construction, including filling, compaction, and backfilling for the various portions of the work. The review shall be for method only. The Contractor shall remain responsible for the adequacy and safety of the methods.

B. The Contractor shall notify the Owner, the Owner's Authorized Representative and the CQA Consultant in writing at least seven (7) days in advance of intention to perform the work of this Section.

C. If work is interrupted for reasons other than inclement weather, the Contractor shall notify the Owner, the Owner's Authorized Representative and the CQA Consultant a minimum of 24 hours prior to the resumption of work.

D. The Contractor shall abide by all qualification requirements of the CQA Plan.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. All earthwork shall be performed in accordance with the requirements of this Section and the Construction Quality Assurance (CQA) Plan.

B. All earthwork shall be monitored as outlined in the CQA Plan.

C. The Contractor shall be aware of the activities outlined in the CQA Plan and account for these CQA activities in the construction schedule.

PART 2 - PRODUCTS

2.01 MATERIALS

A. On-site select soil shall be used for recompacted soil. The soil shall be free of roots and organic material, debris, and other materials considered deleterious by the Owner, the Owner's Authorized Representative, or the CQA Consultant. The soil shall be free of rock fragments greater than three (3) inches in the maximum dimension. All soils used as recompacted soil must be approved by the Owner, the

Owner's Authorized Representative, or the CQA Consultant. Recompacted soil shall be compacted by appropriate means.

2.02 - CONSTRUCTION WATER

A. Water for construction and dust control shall be provided by the Contractor from an off-site water source. The Contractor shall determine his construction water requirements prior to bidding and shall be responsible for supplying an adequate amount of water. The Owner shall not be responsible for providing additional water. The Contractor shall be responsible for obtaining water and transporting it to the construction site.

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any work described in this Section, the Contractor shall become thoroughly familiar with the site, the site conditions, and all portions of the work falling within this Section and the CQA Plan.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections and verify that all work is complete to the point where the installation of this Section may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, he shall immediately notify the Owner, of the Owner's Authorized Representative, and the CQA Consultant in writing within 48 hours after his site inspection and before the proposed commencement of the Work described in this Section. Failure to notify the Owner or the Owner's Authorized Representative, or continuance with earthwork will be construed as Contractor's acceptance of the related work of all other Sections.

3.02 FIELD QUALITY CONTROL

A. The minimum frequency and details of quality control testing are provided in the CQA Plan. The Contractor shall take this testing frequency into account in planning his construction schedule.

B. Sampling locations shall be selected by the CQA Consultant. If necessary, the location of routine in-place moisture content and dry density testing shall be determined using a non-biased sampling plan.

C. A special testing frequency can be used at the discretion of the CQA Consultant when visual observations of construction performance indicate a potential problem.

D. All soil perforations resulting from testing the recompacted soil shall be filled with soil compacted to the satisfaction of the CQA Consultant.

E. If a defective area is discovered in the earthwork, the CQA Consultant shall immediately determine the extent and nature of the defect. If the defect is indicated by an unsatisfactory test result, the CQA Consultant shall determine the extent of the defective area by additional tests, observations, a review of records, or other means that the CQA Consultant deems appropriate. If the defect is related to adverse site conditions, such as overly wet soils or surface desiccation, the CQA Consultant, the Owner, or the Owner's Authorized Representative shall define the limits and nature of the defect.

F. After determining the extent and nature of a defect, the Contractor shall correct the deficiency to the satisfaction of the CQA Consultant. The cost of corrective actions shall be borne by the Contractor.

G. Additional testing shall be performed to verify that the defect has been corrected before any additional work is performed by the Contractor in the area of the deficiency.

3.03 SITE PREPARATION

A. The Contractor shall develop access to the construction area in accordance with the requirements of the Contract Drawings.

B. The Contractor shall install silt fences if deemed necessary by the Owner or the Owner's Authorized Representative immediately down-slope of each area to be disturbed prior to the beginning of work in that area. The Contractor shall maintain the silt fences for the duration of construction. Accumulated sediment behind the silt fences shall be disposed of on-site by the Contractor in a manner approved by the Owner or the Owner's Authorized Representative. Sediment accumulated behind silt fences shall be removed at a frequency that ensures proper and efficient operation of the silt fences.

C. All brush, vegetation, rubbish, and other objectionable material shall be removed from the construction area and disposed of in an area designated by the Owner or Owner's Authorized Representative.

D. All fine-grained soils (i.e., silty and clayey materials) as identified by the Owner, the Owner's Authorized Representative, or the CQA Consultant, shall be removed during excavation of the Waste Management Unit and stockpiled for future use as prepared cover foundation material or other purposes. The material shall be stockpiled on-site in the areas shown on the Contract Drawings or designated by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

E. The Contractor shall construct surface water diversion berms with on-site native materials as designated by the Contract Drawings, or as designated by the Owner, the Owner's Authorized Representative or the CQA Consultant. The berm shall be constructed in horizontal layers not exceeding six (6) inches in compacted depth. Each layer shall be compacted by wheel rolling or by other methods approved by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

Compaction testing or other quality control measures will not be required for the diversion berms. The diversion berms shall be constructed in accordance with the Contract Drawings.

F. Diversion ditches, either permanent or temporary, shall be constructed in accordance with the Contract Drawings. The Contractor shall be responsible for constructing diversion ditches as required to divert run-on around the construction area. The construction of temporary ditches not shown on the Contract Drawings shall not be undertaken until the Contractor's plan for constructing the ditches is approved by the Owner or the Owner's Authorized Representative.

G. Temporary access roads to the construction area shall be constructed and maintained in accordance with the Contract Drawings.

3.04 STOCKPILING

A. Prior to the start of excavation, the Contractor shall prepare a written excavation plan. The plan shall indicate the areas and sequence of excavation, and the anticipated classification of the excavated material (e.g., topsoil, fill to be used as compacted subgrade soil). This excavation plan must be reviewed and approved by the Owner or the Owner's Authorized Representative, and the CQA Consultant. The Contractor shall take into account that the stockpiling portion of the excavation plan may be modified during construction based on the results of conformance testing of the excavated material by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

B. Excavated materials classified as fine-grained fill for prepared subgrade material shall be stockpiled in designated areas free of incompatible soil, clearing debris, or other objectionable materials. Stockpile areas shall be located as shown on the Contract Drawings or as designated by the Owner, the Owner's Authorized Representative or the CQA Consultant.

C. Excavated material classified as spoil (materials other than topsoil or fine-grained soils) shall be segregated from fill and stockpiled or disposed of in the manner shown on the Contract Drawings or as specified by the Owner, the Owner's Authorized Representative or the CQA Consultant.

D. Stockpiles of fill, spoil, or topsoil shall be placed with slopes no steeper than 3:1 (horizontal to vertical) or other slope approved by the CQA Consultant or the Owner's Authorized Representative, graded to drain, sealed by tracking parallel to the slope with a dozer or other means approved by the Owner, the Owner's Authorized Representative, or the CQA Consultant, and dressed daily during periods when fill is taken from the stockpile.

E. Haul roads to and from stockpile areas shall be maintained in good condition.

3.05 SUBGRADE PREPARATION

A. The Contractor shall rough grade the subgrade. Uneven areas and low spots shall be eliminated. Debris, roots, branches, stones, etc., in excess of 3 inches in its largest dimension shall be removed. The Contractor shall remove any subsoil

which has been contaminated with petroleum products and dispose of in a manner consistent with local, State, and Federal guidelines.

B. Subgrade shall be brought to required levels, profiles and contours. Changes in grade shall be gradual. Slopes shall be blended into level areas and final slopes surveyed to verify compliance with specification in the Contract Drawings.

C. Prior to placing waste fill over undisturbed subsoil or upon completion of excavation to subgrade, the subgrade shall be proof-rolled with a loaded dump truck or similar pneumatic tired vehicle under the observation of the Owner's Representative or the CQA Consultant. Should subgrade soils pump or yield, the Contractor shall blade, fill, and compact as necessary to achieve a acceptable surface for vehicle traffic. The finished subgrade shall be placed to within half (0.5) of a foot of the grades specified on the Contract Drawings.

3.06 SURVEY CONTROL

A. The Contractor shall provide for surveying the location and elevation of the foundation layer in accordance with the site's approved horizontal and vertical control system. Surveying shall be performed by a registered land surveyor and in accordance with the CQA Plan using a sketch system. The survey shall consist of obtaining a set of spot elevations every 100 feet along the length of the excavation. A set of spot elevations consists of obtaining elevations along well defined hinge lines, grade breaks, and center lines of drainage channels, or as specified by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

B. The Contractor shall place fill to the approximate subgrade elevations shown on the Contract Drawings within a tolerance of one (1.0) foot or as specified by the Owner, the Owner's Representative, or the CQA Consultant.

C. The Contractor shall provide Record Drawings of the location and elevation of the excavation and the top of subgrade, in accordance with the requirements of the CQA Plan. The Contractor may submit a partial Record Drawing to obtain approval for a portion of work. The CQA Consultant, the Owner or the Owner's Authorized Representative will define the minimum requirements for a partial submittal.

D. The Owner may supply surveying for QA purposes and verification of payment quantities. The Contractor shall provide surveying for QC purposes, Record Drawings, and quantity estimates.

3.07 FIELD QUALITY CONTROL

A. The CQA Consultant will perform density and lift thickness tests in the field on the fill material to evaluate compliance with this Section. Testing will be carried out in accordance with the project CQA Plan.

B. If the CQA Consultant's tests indicate work does not meet the requirements of the specifications, the CQA Consultant will establish the extent of the nonconforming area. The nonconforming area shall be reworked by the Contractor at his own expense until acceptable test results are obtained.

C. The Contractor shall be aware of all field CQA testing activities, as these may affect his schedule.

3.08 PROTECTION OF WORK

A. The Contractor shall use all means necessary to protect all materials and all partially-completed and completed work of this Section.

B. In the event of damage, the CQA Consultant will identify areas requiring repair, and the Contractor shall make all repairs and replacements necessary to the approval of the CQA Consultant or Owner's Representative and at no additional cost to the Owner.

C. At the end of each day, the Contractor shall verify that the entire work area was left in a state that promotes surface drainage off and away from the area and from finished work. If threatening weather conditions are forecast, compacted surfaces shall be seal-rolled to protect finished work.

3.09 PUMPING AND DRAINAGE

A. At all times during construction, the Contractor shall provide and maintain proper equipment and facilities to remove all water entering excavations and keep such excavations dry so as to obtain a satisfactory subgrade to allow the construction of the recompacted soil.

B. Drainage shall be disposed of only in an area approved by the CQA Consultant or the Owner, or the Owner's Authorized Representative. Drainage shall be disposed of in a manner which complies with the Contract Drawings. Discharge of drainage shall be in a manner that minimizes erosion at the point of discharge and downstream.

C. Where required, the Contractor shall install and maintain all erosion control features, (i.e., silt fences around all areas downslope of soil disturbance unless a drainage ditch exists at the boundary of the disturbed area). Other areas requiring silt fences shall be identified by the CQA Consultant, the Owner, or the Owner's Authorized Representative during construction. Silt fences shall not be removed until the contained areas are successfully revegetated.

3.10 PRODUCT PROTECTION

A. The Contractor shall use all means necessary to protect all prior work, including all materials and completed work of other Sections.

B. In the event of damage, the Contractor shall immediately make all repairs and replacements necessary, to the approval of the CQA Consultant or Owner's Representative and at no additional cost to the Owner.

C. Small perforations in the recompacted soil resulting from *in-situ* density testing (e.g., all perforations above except sand cone locations) shall be backfilled by the CQA Consultant.

3.07 UNUSUAL CONDITIONS

A. In the event that any unusual conditions not covered by the Contract Drawings or these Specifications are encountered during soil compaction operations, the Contractor shall notify the Owner, or the Owner's Authorized Representative, who will then notify the Engineer of Record for directions.

END OF SECTION

SECTION 02720
STORM SEWERAGE

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

A. The Contractor shall furnish all labor, materials, tools, supervision, transportation, and installation equipment necessary for installation of all culverts, drop inlets, rip-rap lining, erosion control fabric, and grading, as may be required to complete the work shown on the Contract Drawings or established by the Owner, Owner's Authorized Representative, or the CQA Consultant.

B. The Contractor shall be prepared to install the drainage pipes, drop inlets and erosion control materials in conjunction with the earthwork and other components of the cover system

1.02 RELATED SECTIONS

A. Section 2220: Trenching, Backfilling, and Compaction

B. Section 2240: Recompacted Soil

1.03 REFERENCES

A. Construction Quality Assurance (CQA) Plan.

B. Latest version of American Society for Testing and Materials (ASTM) standards:

1. ASTM D 422, Standard Method for Particle-Size Analysis of Soils.

2. ASTM D 698, Standard Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using a 5.5-lb (2.49-kg) Rammer and 12-in. (305-mm) Drop.

3. ASTM D 1556, Standard Test Method for Density of Soil In Place by the Sand-Cone Method.

4. ASTM D 2216, Standard Method for Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures.

5. ASTM D 2487, Standard Test Method for Classification of Soils for Engineering Purposes.

6. ASTM D 2922, Standard Test Methods for Density of Soil and Soil-Aggregate In Place by Nuclear Density Methods (Shallow Depth).

7. ASTM D 3017, Standard Test Method for Water Content of Soil and Rock In Place by Nuclear Methods (Shallow Depth).

8. ASTM D 4220, Standard Practices for Preserving and Transporting Soil Samples.

1.04 SUBMITTALS AND QUALIFICATIONS

A. The Contractor shall submit to the Owner or the Owner's Authorized Representative, and the CQA Consultant for review a letter describing the proposed methods of construction for the various portions of the work. The review shall be for method only. The Contractor shall remain responsible for the adequacy and safety of the methods.

B. Product data for storm drainage system specialties.

C. The Contractor shall notify the Owner, the Owner's Authorized Representative, and the CQA Consultant in writing at least seven (7) days in advance of intention to perform the work of this Section.

D. If work is interrupted for reasons other than inclement weather, the Contractor shall notify the Owner, the Owner's Authorized Representative, and the CQA Consultant a minimum of 24 hours prior to the resumption of work.

E. The Contractor shall abide by all qualification requirements of the CQA Plan.

1.05 CONSTRUCTION QUALITY ASSURANCE

A. The Contractor shall comply with applicable portions of federal, state, and local environmental agency regulations pertaining to storm sewerage systems.

B. The Contractor will comply with local utility regulations and standards pertaining to storm sewerage systems.

C. All materials will be subject to inspection for acceptance as to condition at the latest practicable time the CQA Consultant has the opportunity to check for compliance prior to or during incorporation of materials in the work.

D. The lengths shown on the construction plans are approximate. The Contractor shall be responsible to ensure a correct sizes and lengths of all materials is verified prior to ordering.

1.06 EXISTING CONDITIONS

A. Known underground, surface and aerial utility lines, buried liner systems and other objects are indicated on the Contract Drawings. The Contractor is to verify the exact location of all existing structures and utilities (including installed liner and leachate collection materials from previous, adjacent phases of construction) that may be within 50 feet of the construction area, proposed access roads, and borrow areas prior to commencement of work. The Contractor shall inspect and become familiar with the site and all related work items in accordance with Part 3 of this Section.

B. The contractor shall be responsible for all repairs and replacement expenses, in the event that damage occurs to any underground, surface or aerial utility line or appurtenances which are to remain.

PART 2 - MATERIALS

2.01 CULVERTS & OVERSIDE DRAINS

A. The dimensions and thicknesses shown are nominal and shall conform to Type I pipe, AASHTO Designation: M36 for corrugated steel pipe.

B. The nominal thickness of sheets for corrugated metal pipe shall be equal to or greater than that designated in the Contract Drawings.

C. All pipe lengths, elbow, couplings and T-sections are required to have a galvanized surface, and have a nominal thickness equal to or greater than that designated in the Contract Drawings.

D. Overside drain metal products shall be fabricated in accordance with the details and dimensions shown on the Contract Drawings, except that minor variations may be accepted at the discretion of the Owner or the Owner's Authorized Representative, and the CQA Consultant to permit the use of manufacture's standard jigs and templets in the fabrication. Metal shall not be less than the thickness shown on the Contract Drawings or as specified by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

2.02 DROP INLETS

A. Drop inlets shall be manufactured from galvanized corrugated metal pipe. Dimensions and type of inlet shall confirm to specifications shown on the Contract Drawing set. Deviations in this design must be supplied to the CQA Consultant for review, fourteen days prior to installation.

B. Inlet grates and lids may be constructed using alternative materials but must have a similar longevity as the galvanized corrugated metal pipe.

2.03 RIP-RAP LINING

A. If applicable and available, on-site inert materials may be used for rip-rap lining of drainage channels specified in the Contracted Drawings or specified by the Owner, the Owner's Authorized Representative, or the CQA Consultant. All proposed materials used for rip-rap protection must be made available to the CQA Consultant seven (7) days prior to installation for inspection and approval.

B. The largest dimension of any rip-rap stone shall be no larger than three (3) times the smallest dimension.

C. Ten (10) percent of the stones shall have a minimum dimension of not less than three (3) inches. The remaining ninety (90) percent of the stones shall have a minimum dimension larger than (6) inches with no more than ten (10) percent having a dimension larger than nine (9) inches.

2.04 EROSION CONTROL FABRIC

A. Erosion control fabric shall be as specified below but may be altered at the discretion of the Owner, the Owner's Authorized Representative, or the CQA Consultant:

- length of approximately fifty (50) yards;
- matting width shall be forty-eight (48) inches with an average weight of ninety-two one-hundredths (0.92) pound per square yard (a tolerance of plus or minus (1) inch in width and five (5) percent in weight will be allowed);
- contain inhibitors to prevent material degradation from prolonged exposure to light and heat.

B. The Contractor shall supply documentation demonstrating the in-ground durability of the proposed erosion control fabric. This documentation shall be submitted to the Owner or the Owner's Authorized Representative, and the CQA Consultant at least 14 days prior to the start of construction. Approval of the erosion control fabric based on the documentation is at the discretion of the Owner, the Owner's Authorized Representative and the CQA Consultant.

PART 3 - EXECUTION

3.01 FAMILIARIZATION

A. Prior to implementing any work described in this Section, the Contractor shall become thoroughly familiar with the site, the site conditions, and all portions of the work falling within this Section and the CQA Plan.

B. Inspection:

1. Prior to implementing any of the work in this Section, the Contractor shall carefully inspect the installed work of all other Sections (including adjacent phases of construction) and verify that all work is complete to the point where the installation of this Section may properly commence without adverse impact.

2. If the Contractor has any concerns regarding the installed work of other Sections, he shall immediately notify the Owner, the Owner's Authorized Representative, and the CQA Consultant in writing within 48 hours after his site inspection and before the proposed commencement of the work described in this Section. Failure to notify the Owner, or Owner's Authorized Representative, or continuance with earthwork will be construed as Contractor's acceptance of the related work of all other Sections.

C. Contract Drawings indicate the general location and arrangement of the storm drainage system. Location and arrangement of piping and channel layouts take into account many design considerations. Install the piping and construct the channels as indicated, to the extent practical. Any deviations from the Contract Drawings shall require prior written approval by the CQA Consultant.

3.02 FIELD QUALITY CONTROL

A. Field quality control shall be in accordance with specifications in the CQA plan.

3.03 CULVERTS

A. Trenching, backfilling and compaction for subsurface culverts shall be carried out in accordance with the procedures specified in Section 02220: Trenching, Backfilling, and Compaction.

B. The embedment depth for the top of each culvert shall be as specified in the Contract Drawings.

C. Backfilling shall not begin before the Owner or the Owner's Authorized Representative, and the CQA Consultant has inspected the grade and alignment of the pipe, the bedding of the pipe, and the joints between the pipe. If backfill material is placed over the pipe before an inspection is made, the Contractor shall reopen the trench in order for an inspection to be made, at the Contractors own expense.

D. No construction or other traffic shall be permitted to cross any culvert until a safe minimum depth of fill above the culvert has been placed and consolidated in accordance with these specifications. The Contractor shall be solely responsible for protecting the structure from superimposed loading created by construction equipment or otherwise and shall repair any damage done to the structure or replace the structure at his own expense.

3.04 OVERSIDE DRAINS

A. Entrance tapers and inlets shall be installed in such a manner as to function properly and efficiently. They will be placed as shown in the Contract Drawings such that the inlet removes fluid upstream of the headwall berm.

B. The inlet will be placed at the proper location prior to construction of the headwall berm. Using the procedures specified in Section 2240: Recompacted Soil, the headwall berm will be constructed adjacent and above the inlet of the overside drain. Erosion control material will be appropriately anchored as specified in the Contract Plans or by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

C. All overside drains shall be securely anchored to the slope of the ground with an anchor assembly as directed by the Contract Drawings or the Owner, Owner's Authorized Representative, or the CQA Consultant.

D. All sections of culvert, elbows, and T-sections shall be securely fastened to one another as specified in the Contract Drawings using the appropriate sized galvanized steel coupling devices.

3.05 DROP INLETS

A. Excavating , backfilling and compaction for subsurface drop inlets shall be carried out in accordance with the procedures specified in Section 02220: Trenching, Backfilling, and Compaction.

B. The embedment depth for the drop inlet shall be as specified in the Contract Drawings or specified by the Owner, Owner's Authorized Representative, of the CQA Consultant.

C. Backfilling shall not begin before the Owner, the Owner's Authorized Representative, or the CQA Consultant has inspected the grade and placement of the drop inlet, the bedding of the drop inlet, and the joints between the attached pipe and drop inlet. If backfill material is placed in the excavation before an inspection is made, the Contractor shall remove the fill in order for an inspection to be made, at his own expense.

3.06 DRAINAGE CHANNELS

A. Contract Drawings indicate the general location and arrangement of the storm drainage system. Location and arrangement of piping and channel layouts take into account many design considerations. Install the piping and construct channels as indicated, to the extent practical. Any deviations from the construction plans shall require prior written approval by the Owner, the Owner's Authorized Representative, or the CQA Consultant.

B. Channels shall be formed to the cross section and dimensions on the Contract Drawings by means of suitable equipment which will deposit all loose material on the downhill side so that the bottom of the finished ditches shall not be less than a reasonable distance below the crest of the loose material piled on the downhill side.

C. In going from cut to fill, the roadway ditches shall be cut to the right or left before reaching the fill so as to avoid damage to embankments by erosion.

D. To avoid destruction of natural growth during construction of ditches, channels, or dikes, travel of equipment shall be confined to the construction limits as nearly as practicable. Where ditches, channels, or dikes are nearly parallel to the roadway, turn-arounds shall not be located closer than two hundred (200) feet apart.

E. Fine grading of channel bottoms will not be required unless paving is specified.

F. Drainage channels shall be lined as specified and be of the size and shape specified on the Contract Drawings.

G. The following procedure will be followed to construct the erosion control cover over all drainage channels:

1. Erosion control fabric shall be unrolled and placed parallel to the flow of water immediately following the brining to finished grade the area specified on the Contract Drawings.

2. Where more than one (1) strip is required to cover the given areas, they shall overlap a minimum of four (4) inches. Ends shall overlap at least six (6) inches with the up-grade section on top. The up-slope end of each

fabric strip shall be buried in six (6) inch slots with the soil firmly tamped against it. The CQA Consultant may require that any other edge exposed to more than normal flow of water or strong prevailing winds be buried in a similar manner. Check slots shall be placed between the ends of strips by placing a tight fold of fabric at least six (6) inches vertically into the soil. These shall be tamped and stapled the same as the up-slope ends. Check slots must be spaced so that one (1) check slot or one (1) end occurs each fifty (50) feet of slope.

3. Erosion control fabric shall be held in place by approved wire staples, pins, spikes, or wooden stakes driven vertically into the soil. Fabric shall be fastened at intervals not more than three (3) feet apart in three (3) rows for each strip of fabric, with one (1) row along each edge and one (1) row alternately spaced in the middle. All ends of fabric and check slots shall be fastened at six (6) inch intervals across their width. Fastening devices shall anchor the fabric against the soil and be driven flush with the finished grade.

H. Upon installation of erosion control fabric, the CQA Consultant must inspect the completed product prior to covering with appropriately sized rip-rap. If rip-rap material is placed over the fabric prior to final inspection, the Contractor shall remove the placed rip-rap, repair any damage to the placed fabric at his own expense, in order for an inspection to be made.

I. After inspection of the erosion control fabric the following procedure shall be followed to place the appropriately sized rip-rap material over the fabric:

1. Rip-rap may be placed by mechanical means that will produce a well graded, uniform rock blanket in close conformity with the typical section shown on the plans as approved by the CQA Consultant. Interstices between stones shall be chinked with spalls firmly rammed into place.

3.07 UNUSUAL CONDITIONS

A. In the event that any unusual conditions not covered by the Contract Drawings or these Specifications are encountered during storm sewerage construction, the Contractor shall notify the Owner, or the Owner's Authorized Representative, who will then notify the Engineer of Record for directions.

END OF SECTION

Appendix I-2

CQA Program

Construction Quality Assurance Plan

Division of Environmental Quality/Waste Disposal
Mohave County Development Services
3250 E Kino Ave,
Kingman, AZ 86409
Phone: 928-757-0903

SCS ENGINEERS

01216008.10 | December 2025

6100 South Maple Avenue
Suite 118
Tempe, AZ 85283
602-840-2596

Table of Contents

Section Page

1.0 General 1
1.1 Introduction 1
1.2 Scope of the CQA Plan 1
1.3 Definitions and Use of Terms 1
1.3.1 Definitions Relating to CQA 1
1.3.2 References to Standards 2
1.3.3 Units 2
1.4 Responsibility and Authority 2
1.4.1 Permitting Agency 2
1.4.2 Owner 2
1.4.2.1 Region Engineer 2
1.4.2.2 Project Manager 2
1.4.3 Design Engineer 3
1.4.4 CQA Consultant 3
1.4.5 Soils CQA Laboratory 4
1.4.6 Geosynthetics CQA Laboratory 4
1.4.7 Earthwork Contractor 4
1.4.8 Geosynthetics Manufacturer 5
1.4.9 Geosynthetics Installer 5
1.5 Project Meetings 5
1.5.1 Pre-Construction Meeting 5
1.5.2 Weekly Meetings 6
1.5.3 Problem or Work Deficiency Meetings 6
1.6 Qualifications of Key Personnel and Organizations 7
1.6.1 CQA Consultant 7
1.6.2 Soils and Geosynthetics CQA Laboratories 7
1.6.3 Earthwork Contractor 7
1.6.4 Geosynthetics Manufacturer 7
1.6.5 Geosynthetics Installer 7
2.0 Earthwork Components 8
2.1 Introduction 8
2.2 Test Methods and Sampling Requirements 8
2.3 Subgrade 8
2.4 Protective Cover 9
2.4.1 Material 9
2.4.2 Construction 9
2.4.3 Testing 9
2.5 Intermediate Cover 10
2.6 Barrier Layer 10
2.7 Erosion control layer 10

2.8 Gravel 10
2.9 Potential Problems and Deficiencies 10
3.0 Geosynthetics Manufacturing and Testing 11
3.1 Manufacturing, Shipping, Testing and Storage 11
3.1.1 Manufacturing 11
3.1.1.1 Resin Quality 11
3.1.1.2 Certification of Property Values 11
3.1.1.3 Quality Control Certificates 11
3.1.1.4 Labeling 12
3.1.2 Shipping and Handling 12
3.1.3 Conformance Testing 13
3.1.3.1 Sample Collection 13
3.1.3.2 Test Results 13
3.1.4 Storage 14
4.0 Geomembrane Installation 14
4.1 Geomembrane Placement 14
4.1.1 Panel Deployment Plan 14
4.1.2 Field Panel Identification 14
4.1.3 Installation Schedule 15
4.1.4 Weather Conditions 15
4.1.5 Anchorage System 15
4.1.6 Method of Placement 15
4.1.7 Damage 16
4.2 Field Seaming 16
4.2.1 Extrusion Seaming 17
4.2.2 Fusion Seaming 17
4.2.3 Seam Preparation 17
4.2.4 Trial Seams 18
4.2.5 General Seaming Procedure 18
4.2.6 Non-Destructive Seam Continuity Testing 19
4.2.6.1 Air Pressure Testing 19
4.2.6.2 Non-Complying Air Pressure Test 19
4.2.6.3 Vacuum Testing 20
4.2.6.4 Non-Complying Vacuum Test 20
4.2.6.5 CQA Responsibilities 21
4.2.6.6 Non-Testable Areas 21
4.2.7 Destructive Seam Testing 21
4.2.7.1 Sampling Procedure 21
4.2.7.2 Size of Samples 21
4.2.7.3 Field Testing 22
4.2.7.4 Geosynthetics CQA Laboratory Testing 22
4.2.7.5 Destructive Test Failure 22
4.3 Defects and Repairs 23
4.3.1 Repair Procedures 23

4.3.2 Verification of Repairs 24
4.3.3 Large Wrinkles 24
4.4 Backfilling of Anchor Trench 25
4.5 Liner System Certification/Acceptance 25
4.6 Materials in Contact with Geomembrane 25
4.6.1 Geocomposite 25
4.6.2 Appurtenances 25
5.0 Geotextile Installation 26
5.1 Handling and Placement 26
5.2 Seams and Overlaps 26
5.3 Repairs 27
5.4 Placement of Materials over Geotextile 27
6.0 Geocomposite Installation 28
6.1 Handling and Placement 28
6.2 Stacking and Joining 28
6.2.1 Geonet Components: 29
6.2.2 Geotextile Components: 29
6.2.3 Geocomposite: 29
6.3 Repair 29
6.4 Placement of Materials over Geocomposite 30
7.0 GCL Installation 30
7.1 Handling and Placement 30
7.2 Seams and Overlaps 31
7.3 Repair 31
7.4 Placement of Materials over GCL 31
8.0 Polyethylene Pipe And Fittings 32
8.1 Material Requirements 32
8.2 Fusion Process for Joints 32
8.2.1 Preparation 32
8.2.2 Weather Conditions for Butt-Fusion 32
8.2.3 General Butt-Fusion Procedure 32
8.3 Pressure Testing of Joints 33
8.3.1 Segment Testing Prior to Installation 33
8.3.2 Test Failure 33
8.3.3 Test Reporting 33

Tables

Table 1. Standard Test Methods for Evaluation of Soil and Aggregate 35
Table 2. Minimum Test Frequencies For Qualifying Soils 36
Table 3. Minimum Test Frequencies for Soil Components During Construction 37
Table 4. Geomembrane Conformance Tests 38
Table 5. Standard Tests for Geomembrane Seams 39

Table 6. Geotextile Conformance Tests 40
Table 7. Geocomposite Conformance Tests 41
Table 8. Geosynthetic Clay Liner Conformance Tests 43

1.0 GENERAL

1.1 INTRODUCTION

The purpose of the Construction Quality Assurance (CQA) Plan is to present the principles and practices of CQA activities to be implemented during construction of soils, geosynthetics, or piping at Mohave Valley Landfill located in Fort Mohave, Arizona. Quality management involves quality assurance activities performed to verify that construction activities meet the permitted project specifications.

1.2 SCOPE OF THE CQA PLAN

The remainder of the CQA Plan includes the following sections:

- Section 1 - Definitions, Responsibility and Authority, Qualifications;
- Section 2 – Earthwork Components;
- Section 3 – Geosynthetics Manufacturing and Testing;
- Section 4 – Geomembrane Installation;
- Section 5 – Geotextile Installation;
- Section 6 – Geocomposite Installation;
- Section 7 – Geosynthetic Clay Liner (GCL) Installation; and
- Section 8 - Polyethylene Pipe and Fittings.

This CQA Plan has been developed to work in conjunction with the design/construction plans and specifications for the facility. In the case of conflict between this CQA Plan and standards set by the design/construction plans and specifications, the design/construction plans shall take precedence over both the specifications and the CQA Plan, and specifications shall take precedence over the CQA Plan.

1.3 DEFINITIONS AND USE OF TERMS

The following provides general information regarding specific terms, references, and units as used in the CQA Plan.

1.3.1 Definitions Relating to CQA

In the context of this CQA Plan, Construction Quality Assurance and Construction Quality Control are defined as follows:

- Construction Quality Assurance (CQA) - CQA refers to measures taken by the Owner to determine if the Contractors are in compliance with the design plans, and specifications.

- Construction Quality Control (CQC) - CQC refers to measures taken by the Contractor to determine compliance with the requirements for material and workmanship as stated in the contract drawings and specifications.

1.3.2 References to Standards

The CQA Plan includes references to test procedures of the American Society for Testing and Materials (ASTM).

1.3.3 Units

Properties and dimensions given in the CQA Plan are expressed in U.S. units and may be followed by approximate equivalent values in SI units in parentheses. The values given in SI units are typically accurate within ten percent. In cases of conflict, the U.S. units govern.

1.4 RESPONSIBILITY AND AUTHORITY

The principal parties involved in the CQA of soils, geosynthetics, and piping (landfill systems) include the Permitting Agency, the Owner's representative including the Region Engineer and the Project Manager, the Design Engineer, the CQA Consultant, the Soils CQA Laboratory, the Geosynthetics CQA Laboratory, the Earthwork Contractor, the Geosynthetics Manufacturer, and the Geosynthetics Installer. The general responsibilities and authorities of each of these parties may be modified or expanded as dictated by specific project needs during a project specific Pre-Construction Meeting.

1.4.1 Permitting Agency

The Permitting Agency is authorized to issue the permit for construction of the landfill systems based on review and acceptance of the permit application.

1.4.2 Owner

The Owner is responsible for coordinating the design and construction of the landfill systems. The Region Engineer and Project Manager are two representatives of the Owner responsible for coordinating the design and construction of the landfill systems.

1.4.2.1 Region Engineer

The Region Engineer is responsible for all correspondence with the Permitting Agency and manages the Design Engineer and the CQA Consultant. The Region Engineer is also responsible for compliance with the permit and the submission of CQA documentation demonstrating that the landfill systems were constructed in accordance with the project specifications.

1.4.2.2 Project Manager

The Project Manager is the official on-site representative of the Owner and is responsible for coordinating schedules, meetings, and field activities. The Project Manager is also responsible for communications with the Owner, CQA Consultant, Surveyor, Contractors, Manufacturers, and other involved parties. The Project Manager has the authority to select and dismiss parties charged with construction activities. The Project Manager also has the authority to direct contractors hired by the Owner and to accept or reject their material and workmanship.

1.4.3 Design Engineer

The Design Engineer is a firm or person, retained by the Owner, to prepare permit and/or construction documents for acceptance by the Permitting Agency and necessary to construct the facility. The permit documents include forms, narratives, a CQA Plan, and the design of the landfill systems. The permit documents establish the limits, type, and details for the liner system, final cover system, leachate management system, and all other components for the site. The permit documents provide minimum specifications and are the governing document when a specification contradiction arises.

During construction, the Design Engineer may be requested to clarify discrepancies in the construction documents or CQA Plan if necessary. The Design Engineer may also approve substantive changes to the design plans or specifications for the facility. Substantive changes include any changes which modify or impact the technical basis for any engineered component of the facility design.

1.4.4 CQA Consultant

The CQA Consultant is responsible for observing and documenting construction activities related to the permit documents and the CQA Plan. The CQA Consultant is represented by the CQA Certifying Engineer, the CQA Superintendent, and supporting CQA monitoring personnel located on-site. In general, the responsibilities and authorities of the CQA Consultant include:

- Understanding the permit documents, design plans, and specifications in relation to all aspects for the CQA Plan.
- Scheduling, coordinating, and performing CQA activities;
- Performing independent on-site observations of the work in progress to assess compliance with the CQA Plan, permit documents, design plans, and technical specifications;
- Recognizing and reporting deviations from the CQA Plan, permit document, design plans, and/or specifications to the Owner;
- Securing documents which approve changes to the CQA Plan, permit documents, design plans, and/or specifications;
- Verifying that the CQA Consultant's, Contractor's, and installer's test equipment meets testing and calibration requirements, and that tests are conducted according to standardized procedures defined in the CQA Plan;
- Recording and maintaining test data accurately;
- Identifying work that should be accepted, rejected, or further evaluated;
- Verifying that corrective measures are implemented;
- Documenting and reporting CQA activities;
- Collecting data needed for record documentation; and

- Maintaining open lines of communications with other parties involved in the construction.

The CQA Consultant is also responsible for issuing certifications for major construction activities. Construction activities include the following:

- Subgrade
- Protective cover
- Lining system geosynthetics
- Leachate collection system
- Leachate management system
- Surface water management system
- Erosion and sedimentation control structures
- Cover system

Certifications shall bear the seal of a Professional Engineer registered in the State of Florida.

1.4.5 Soils CQA Laboratory

The Soils CQA Laboratory is responsible for performing the laboratory testing required by the CQA Plan to determine specific characteristics of the soils and aggregates. The Soils CQA Laboratory is also responsible for providing adequate documentation of analytical results, test methods followed, and testing equipment used. Work of the Soils CQA Laboratory will be administered by and reported to the CQA Consultant.

1.4.6 Geosynthetics CQA Laboratory

The Geosynthetics CQA Laboratory is responsible for performing the laboratory testing required by the CQA Plan to determine specific characteristics of the geosynthetics. The Geosynthetics CQA Laboratory is also responsible for providing adequate documentation of analytical results, test methods followed, and testing equipment used. Work of the Geosynthetics CQA Laboratory will be administered by the CQA Consultant. All results shall be reported to the CQA Consultant.

1.4.7 Earthwork Contractor

The Earthwork Contractor is responsible for moving earth for the preparation of subgradeand placement of the protective cover, which constitute the soil components of a solid waste containment system. The Earthwork Contractor is also responsible for moving earth for establishing the final cover grades and construction of the grading layer and protective soil layer. The Earthwork Contractor may also be responsible for construction of the storm water systems, sedimentation and erosion control facilities, anchor trenches for lining system, and other support activities outside the solid waste containment system area.

It is the responsibility of the Earthwork Contractor that construction be performed using the procedures and equipment necessary to produce results in conformance with the contract documents.

The Earthwork Contractor may also be responsible for the placement of piping and electrical systems. In this capacity, the Earthwork Contractor is responsible for the quality of materials and installation of the materials in conformance with the contract documents.

1.4.8 Geosynthetics Manufacturer

The Geosynthetics Manufacturer(s) is responsible for the production of geosynthetics that meet the requirements of the contract documents. The Geosynthetics Manufacturer is also responsible for providing adequate documentation regarding characteristics of the resin, characteristics of the finished product, testing performed to determine the characteristics, and quality control measures taken during manufacturing.

The Geosynthetics Manufacturer(s) is responsible for the safe transportation of the geosynthetics between the manufacturing plant and the site. The Geosynthetics Manufacturer is responsible for carefully loading the geosynthetics at the plant and transporting the geosynthetics to the site, and accepts full responsibility for damage to the geosynthetics which may occur during these operations.

1.4.9 Geosynthetics Installer

The Geosynthetics Installer(s) is responsible for unloading, field handling, storing, placing, seaming, temporarily anchoring against wind, and other aspects of geosynthetics installation in accordance with the contract documents. The Geosynthetics Installer may also be responsible for the preparation and completion of anchor trenches.

Prior to installation, the Geosynthetics Installer is responsible for the preparation of the panel layout drawing identifying fabricated and field seams, including dimensions and details. Prior to mobilization, the Geosynthetics Installer is responsible for providing an installation schedule and a list of proposed field personnel and their qualifications. The Geomembrane Installer is responsible for providing quality control documentation and subgrade acceptance certificates. Upon completion of the installation, the Geosynthetics Installer shall provide the geomembrane installation certification, Manufacturer's warranty and installation warranty.

1.5 PROJECT MEETINGS

1.5.1 Pre-Construction Meeting

Following selection of the parties involved in the construction of the project, a Pre-Construction Meeting may be held. This meeting may include several parties, including the Owner's Representative, the Design Engineer, the CQA Consultant, the Earthwork Contractor, and the Geosynthetics Installer.

The purpose for this meeting is to begin planning for coordination of tasks, anticipate problems which might cause difficulties and delays in construction, and, above all, present the CQA Plan to the parties involved. It is very important that the requirements regarding testing, repair, etc., be known and accepted.

The meeting shall include the following activities:

- distribution of relevant documents;
- discussion of construction scheduling;
- review of critical design details of the project;
- review of the CQA Plan;
- modification of the CQA Plan to include necessary CQA activities;
- reaching a consensus on the site-specific CQA Plan and quality control procedures, especially on methods for determining acceptability of the soils and geosynthetics comprising the containment system;
- review protocols for testing and placement of soil materials;
- confirmation of the methods for documenting and reporting, and for distributing documents and reports; and
- confirmation of the lines of authority and communication.

The meeting shall be documented by the CQA Consultant and minutes shall be transmitted to involved parties as soon as possible.

1.5.2 Weekly Meetings

A weekly meeting shall be held between the CQA Consultant, the Geosynthetics Installer, the Earthwork Contractor, the Owner, and other involved parties. Those attending will discuss, plan, and coordinate the work and CQA activities to be completed that week. More frequent meetings may be held if necessary to address construction issues. The meeting will be documented by the CQA Consultant and minutes will be transmitted to involved parties as soon as possible.

1.5.3 Problem or Work Deficiency Meetings

A special meeting shall be held when and if a problem or deficiency, which would impact the construction schedule, is present or likely to occur and cannot wait to be addressed during regular weekly meetings. At a minimum, the meeting shall be attended by the affected Contractor, the Owner, and the CQA Consultant. The purpose of the meeting is to define and resolve the problem or work deficiency as follows:

- define and discuss the problem or deficiency;
- review alternative solutions; and
- implement an action plan to resolve the problem or deficiency.

The meeting shall be documented by the CQA Consultant and minutes shall be transmitted as soon as possible to all the parties.

1.6 QUALIFICATIONS OF KEY PERSONNEL AND ORGANIZATIONS

1.6.1 CQA Consultant

The CQA Consultant shall be pre-qualified and approved by the Owner. The CQA Consultant shall be a qualified engineering firm with experience in construction quality assurance and quality control, particularly on projects involving similar solid waste containment systems. The CQA Consultant shall designate a Certifying Engineer who is a Professional Engineer registered in the State of Arizona. The Certifying Engineer shall be solely responsible for the CQA personnel and their activities, as well as the preparation of a certification report to confirm the project has been constructed in accordance with the permit documents. The CQA Consultant shall be capable of assigning technically qualified personnel to the project, including an on-site CQA Superintendent and CQA Monitors, as needed. The person designated as the CQA Superintendent shall possess a thorough knowledge of all aspects of earthwork and geosynthetics construction.

CQA Monitors shall be specifically trained in quality assurance of geosynthetics, earthwork, concrete, etc. Unless otherwise approved by the Owner, the Geosynthetics CQA Monitors shall have a minimum of 400,000 ft^2 of geomembrane installation field monitoring experience. The CQA Superintendent shall have a minimum of 2,000,000 ft^2 of geomembrane installation field monitoring experience.

1.6.2 Soils and Geosynthetics CQA Laboratories

The Soils and Geosynthetics CQA Laboratories shall be pre-qualified and approved by the Owner. The Soils and Geosynthetics CQA Laboratories shall be experienced in performing laboratory tests to determine characteristics as required by this CQA Plan. The Soils and Geosynthetics Laboratories shall demonstrate that the firms follow the standard test methods listed in the CQA Plan and maintain the appropriately calibrated equipment to perform the tests. The Soils and Geosynthetics Laboratories shall also demonstrate to the CQA Consultant and Owner's Representative that the firms adhere to a formal in-house quality control program and can provide the required analytical documentation and reports.

1.6.3 Earthwork Contractor

The Earthwork Contractor shall be pre-qualified and approved by the Owner. The Earthwork Contractor shall be capable of assigning the personnel and equipment required to perform the work within the schedule.

1.6.4 Geosynthetics Manufacturer

The Geosynthetics Manufacturer(s) shall be able to provide sufficient production capacity and experience to meet the demands of the project. In particular, the Geosynthetics Manufacturer(s) shall be pre-qualified and approved by the Owner. The Geosynthetics Manufacturer(s) shall provide, upon request by owner, sufficient documentation of production capacity and experience to the satisfaction of the Owner.

1.6.5 Geosynthetics Installer

The Geosynthetics Installer shall be trained and qualified to install geosynthetics. The Geosynthetics Installer shall provide, upon request by the Owner, sufficient documentation of installation capabilities and experience.

The Geomembrane Installer shall provide the Owner with the professional record of the proposed Field Superintendent. The Field Superintendent must have supervised the installation of a minimum of 5,000,000 ft^2 of geomembrane and must also exhibit good management skills. The Field Superintendent shall be approved by the Owner. Proposed Field Superintendents deemed insufficiently experienced shall not be accepted by the Owner and shall be replaced by the Geosynthetics Installer.

2.0 EARTHWORK COMPONENTS

2.1 INTRODUCTION

Section 2 of the CQA Plan addresses the CQA activities associated with earthwork components of the solid waste containment system that are to be constructed of soil or aggregate. These components include:

- subgrade
- protective cover
- grading layer
- protective soil layer

The soil and aggregate components of the solid waste containment system shall meet requirements related to material characteristics and construction quality. Both field and laboratory tests shall be performed prior to construction to evaluate if the soil and aggregate characteristics from proposed sources meet the project specifications. Throughout construction, additional field and laboratory testing shall be performed to confirm that earthwork components have been constructed in accordance with the project specifications.

2.2 TEST METHODS AND SAMPLING REQUIREMENTS

Table 1 presents the laboratory test methods for qualifying soils and aggregates for construction, and field test methods to determine quality of the constructed earthwork component. The tests shall be conducted in accordance with the current versions of the standard methods presented in Table 1.

Table 2 provides information regarding the minimum test frequencies for qualifying soils and Table 3 provides information regarding the minimum test frequencies during construction of each soil component. Any variation in the soil type requires sampling and qualifying of the soil by the CQA Consultant.

2.3 SUBGRADE

Subgrade refers to a natural in-place soil surface below original ground surface following removal of vegetation, soft soils, muck, and any unacceptable material that may exist in the project area.

Following removal of unacceptable materials as discussed above, the bottom of the excavation will be rolled with a vibratory roller to establish the prepared Subgrade surface. Following rolling, the CQA Consultant shall measure density and moisture content in the field at the frequency of 4 tests per acre to ensure the Subgrade surface is compacted to a minimum value of 95 percent of the

maximum dry density in accordance with the Standard Proctor procedures. The Contractor, in coordination with the Owner, shall ensure that the prepared Subgrade surface is surveyed.

Dewatering may be required in low areas to ensure unacceptable materials are removed and acceptable foundation soil has been reached. The Earthwork Contractor shall be prepared to perform dewatering in accordance with the construction plans discussed and approved during the pre-construction meeting. At the approval of the Design Engineer, compaction of the Subgrade surface may be waived in areas that the subgrade surface is below ground water.

2.4 PROTECTIVE COVER

2.4.1 Material

Protective cover is the upper soil component of the landfill lining system. The Protective Cover material shall meet the project specifications. The CQA Consultant shall collect soil samples and perform laboratory testing for qualifying the Protective Cover material in accordance with the procedures described in the project specifications. Any variation in the soil type requires sampling and qualifying of the soil by the CQA Consultant.

2.4.2 Construction

Low ground-pressure equipment shall be used to construct the Protective Cover over the lining system geosynthetics. Equipment shall be operated only over the thickness specified in the project specifications. The CQA Consultant shall be responsible for determining the equipment ground pressure used by the Earthwork Contractor and the minimum thickness of material below the equipment tracks or wheels based on the project specifications. The CQA Consultant shall monitor depth of ruts that may develop during operation of the equipment over the Protective Cover. If the rut depth reduces the material thickness to less than the required thickness, the CQA Consultant shall coordinate with the Earthwork Contractor to ensure that the ruts are eliminated and equipment operates over the required thickness.

Only HDPE corrugated thickness markers shall be used to determine the thickness of the Protective Cover placed over the lining system. The thickness markers shall be removed by the Earthwork Contractor at the completion of the project. If necessary, the contractor shall excavate test pits to verify thickness for the CQA Consultant. At the approval of the Owner, the finished surface of the Protective Cover will be surveyed.

2.4.3 Testing

Qualifying samples shall be collected from the source or screened piles, if screening required, in accordance with the frequencies summarized in Table 2. In addition to the qualifying samples, the CQA Consultant shall collect samples at the frequencies summarized in Table 3 from the material intended for the project in advance of delivery to the work area. Samples may be collected from the delivered material stockpiled on site or the screened pile, if screening required. In the event that the material is directly transported to the work area before sampling, samples shall be collected for testing immediately upon delivery of material to the work area. The CQA Consultant shall record areas where material is placed until passing results are available. In the event of failing results, the material involved in the failing result shall be identified by the CQA Consultant and removed from the work area by the Earthwork Contractor.

2.5 INTERMEDIATE COVER

2025 CQA Plan Note: The Intermediate Cover materials, Construction, and Testing are discussed in the project CQA Plan and specifications in the 2011 SWFP.

2.6 BARRIER LAYER

2025 CQA Plan Note: The Barrier Layer materials, Construction, and Testing are discussed in the project CQA Plan and specifications in the 2011 SWFP.

2.7 EROSION CONTROL LAYER

2025 CQA Plan Note: The Erosion Control Layer materials, Construction, and Testing are discussed in the project CQA Plan and specifications in the 2011 SWFP.

2.8 GRAVEL

Gravel shall be placed around pipes, and in the leachate collection sump. Gravel shall meet the project specifications. The CQA Consultant may collect samples from the stockpile to perform sieve analysis for qualifying the Gravel. At a minimum, one sample shall be collected from each type of gravel considered for the project. Any variation in Gravel requires sampling and qualifying of the material by the CQA Consultant. Gravel will be washed on-site to remove fines, if necessary.

2.9 POTENTIAL PROBLEMS AND DEFICIENCIES

During construction, the frequency of laboratory and/or field testing may be increased at the discretion of CQA Consultant or the Owner when visual observations of construction performance indicate a potential problem. Additional testing for suspected areas will be considered when any of the following conditions exist:

- excessive pumping or cracking of material is observed;
- work performed under adverse weather conditions;
- work is conducted in difficult areas; and
- a high frequency of failing tests is observed.

If a defect is discovered in the earthwork product, the CQA Consultant shall immediately determine the extent and nature of the defect. If the defect is indicated by an unsatisfactory test result, the CQA Consultant shall determine the extent of the deficient area by additional tests, observations, a review of records, or other appropriate means. All deficiencies shall be corrected by the Earthwork Contractor to the satisfaction of the CQA Consultant and the Owner.

The CQA Consultant shall schedule appropriate retests after the work deficiency has been corrected. Retests summarized by the CQA Consultant must verify that the defect has been corrected before any additional work is performed by the Earthwork Contractor in the area of the deficiency.

3.0 GEOSYNTHETICS MANUFACTURING AND TESTING

3.1 MANUFACTURING, SHIPPING, TESTING AND STORAGE

The following subsections address the activities associated with the manufacturing of geosynthetics; shipping, handling, and delivery of geosynthetics to the project site; conformance testing of the delivered geosynthetics; and storage of the geosynthetics prior to installation.

3.1.1 Manufacturing

The Geosynthetics Manufacturer(s) shall provide documentation that the materials meet the project specifications requirements and adequate quality control measures have been implemented during the manufacturing process.

3.1.1.1 Resin Quality

Prior to the shipping of geosynthetics rolls, the Geosynthetics Manufacturer(s) shall provide the Owner and the CQA Consultant with the following information:

- the origin (Resin Supplier's name and resin production plant), identification (brand name number), and production date of the resin;
- a copy of the quality control certificates issued by the Resin Supplier(s);
- reports on the tests conducted by the Resin Manufacturer(s) to verify the quality of the resin used to manufacture the geosynthetic rolls; and
- a statement that the percentage of reclaimed polymer added to the geomembrane resin is in accordance with the project specifications.

At the Owner's discretion and cost, testing may be carried out on the resin by the Geosynthetics CQA Laboratory for purposes of verifying conformance. If the results of the manufacturer and the Geosynthetics CQA Laboratory testing differ, the testing will be repeated by Geosynthetics CQA Laboratory, and the Geosynthetics Manufacturer will be permitted to monitor this testing. The results of this latter series of tests will prevail, provided that the applicable test methods have been followed.

3.1.1.2 Certification of Property Values

In addition to the information discussed above and prior to the shipping of geosynthetic production, the Geosynthetics Manufacturer(s) shall provide the Owner and the CQA Consultant with a list of guaranteed "minimum average roll value" properties (as defined in the Project Specifications) for the type of geosynthetic to be supplied. The CQA Consultant shall verify that the test methods used by the Geosynthetics Manufacturer and the property values certified by the Geosynthetics Manufacturer meet the test methods and values in the project specifications.

3.1.1.3 Quality Control Certificates

Prior to shipping, the Geosynthetics Manufacturer(s) shall provide the Owner and the CQA Consultant with quality control certificates for the geosynthetic rolls specifically produced for the project. The

quality control certificates will be signed by a responsible party employed by the Geosynthetics Manufacturer. The quality control certificate will include:

- roll numbers and batch number identification; and
- sampling procedures and results of quality control tests.

The Geosynthetics Manufacturer(s) shall be required to perform, at a minimum, the tests included in the project specifications, on samples taken at the reported frequencies established by the Geosynthetics Manufacturer in its quality control procedures.

The CQA Consultant shall:

- verify that the quality control certificates have been provided at the specified frequency for all rolls; and
- review the quality control certificates and verify that the test methods and values meet the project specifications. The Design Engineer shall be responsible for accepting test methods that may be different from those included in the project specifications.

3.1.1.4 Labeling

The Geosynthetics Manufacturer(s) shall identify all rolls of geosynthetic. Each geosynthetic roll shall have a weatherproof label which contains the following:

- manufacturer's name
- product identification
- lot number
- roll number
- roll weight
- roll dimensions

In addition, if any special handling of the geosynthetic is required, it shall be so marked on the top surface of the geosynthetic, e.g., "This Side Up". Rolls without proper identification shall be rejected by the CQA Consultant.

The CQA Consultant shall examine rolls upon delivery, and any deviation from the above requirements shall be reported to the Owner.

3.1.2 Shipping and Handling

Shipping to the project site and handling on site of the geosynthetic rolls is the responsibility of the Owner, Geosynthetics Manufacturer, or Geosynthetics Installer depending on the contract documents.

The CQA Consultant shall confirm that:

- handling equipment used on-site poses minimal risk of damage to the geosynthetic rolls; and
- the Geosynthetics Installer's personnel handle the geosynthetic rolls with care.

Upon delivery at the site, the Geosynthetics Installer and the CQA Consultant shall confirm that roll identifications correspond to the quality control certificates issued by the Geosynthetics Manufacturer.

Rolls without proper identification shall be rejected by the CQA Consultant.

3.1.3 Conformance Testing

Upon, or prior to, delivery of the geosynthetic rolls, the CQA Consultant shall verify that conformance samples are removed and forwarded to the Geosynthetics CQA Laboratory for testing in accordance with Tables 4, 6, 7, 8, and 9. A representative of the Geosynthetic CQA Laboratory may collect conformance samples at the plant under directions from the CQA Consultant.

3.1.3.1 Sample Collection

Using the packing list provided by the Geosynthetics Manufacturer or a sequential inventory list made by the CQA Consultant, rolls shall be selected for sampling at a minimum frequency of one sample per 100,000 ft^2 of material. If the material is shipped in identifiable lots or manufacturing runs, sample selection should be adjusted to assure that the minimum frequency is met and that each different lot or manufacturing run is represented by at least one sample.

Samples will be taken across the entire width of the roll. Samples will be taken from a segment of the roll that has not been exposed to excessive forces during loading, shipping, unloading, and hauling of the roll. Unless otherwise specified, samples will be 3 feet long by the roll width. The CQA Consultant will mark the machine direction on the samples with an arrow.

3.1.3.2 Test Results

The conformance test results shall be evaluated in accordance with the following procedure:

- If the average test values from the sample meet the project specifications, the sample passes.
- For the failing parameter(s), perform one additional test on the sample. This test may be performed by another CQA Geosynthetics Laboratory at the discretion of the CQA Consultant and the Owner.
- If the test values for the additional tests meet the required values, the roll and adjacent rolls pass and are acceptable.
- If the test value does not meet the project specifications, reject the roll, collect samples from the closest numerical roll on both sides of the failed roll and test for the failed parameter(s). If one or both of these tests do not meet the project specifications, those

roll(s) will be rejected and the CQA Consultant and Owner shall determine further testing protocols and criteria for identifying the limits of rejected rolls.

3.1.4 Storage

The Geosynthetics Installer shall be responsible for the storage of the geosynthetic rolls delivered to the project site. Storage space should protect the geosynthetic rolls from theft, vandalism, vehicle traffic, water, excess moisture, and weather.

The CQA Consultant shall observe that storage of the geosynthetic rolls provides adequate protection against other damage.

4.0 GEOMEMBRANE INSTALLATION

Geomembrane installation activities shall be monitored by the CQA Consultant. Prior to installation in areas that geomembrane will be installed against soil, the CQA Consultant shall obtain an as-built survey from the Land Surveyor indicating that the area over which the geomembrane is to be installed meets the project requirements. This requirement may be waived for installation of final cover geomembrane. The CQA Consultant shall also obtain a certification in writing from the Geosynthetics Installers that the surface over which the geomembrane is to be installed is acceptable.

Following acceptance of the soil surface, it is the responsibility of the Geosynthetics Installer and/or the Earthwork Contactor, depending on the contract requirements, to protect the surface where the geomembrane will be installed. Following acceptance of the soil surface, it shall be the responsibility of the Geosynthetics Installer and the CQA Consultant to indicate to the Owner any change in the surface condition that may require repair work.

4.1 GEOMEMBRANE PLACEMENT

Placement of the geomembrane field panels is the responsibility of the Geosynthetics Installer and shall be performed in accordance with the panel deployment plan submitted by the Geosynthetics Installer.

4.1.1 Panel Deployment Plan

At the Pre-Construction Meeting, the Geosynthetics Installer shall provide the Owner and the CQA Consultant with a drawing of the area to be lined showing expected seams (panel deployment plan). The CQA Consultant shall review the panel deployment plan and verify its consistency with the accepted state of practice and the CQA Plan.

The panel deployment plan should be designed to maximize panel lengths and minimize seams and material waste. In corners and odd-shaped geometric locations, the number of seams should be minimized. Continuous horizontal seams are not allowed on the slopes. Long horizontal seams are only allowed within a 5-ft distance of the toe of the slope. Alternatively, the seam may be placed at the base. Any deviation requires approval of the Design Engineer.

4.1.2 Field Panel Identification

The CQA Consultant shall document that the Geosynthetics Installer labels each field panel with an "identification code" (number and/or letter) consistent with the panel deployment plan. This identification code shall be agreeable to the Owner, Geosynthetics Installer, and CQA Consultant. It is

the responsibility of the Geosynthetics Installer and the CQA Consultant to verify that each field panel placed can be tracked to the original roll number.

The CQA Consultant shall establish a table or chart showing correspondence between roll numbers and field panel identification codes. The field panel identification code will be used for all quality assurance records.

4.1.3 Installation Schedule

Field panels shall be placed one at a time unless otherwise approved by the CQA Consultant and the Owner. Each field panel shall be seamed after its placement in order to minimize the number of unsealed field panels exposed to weather.

Overlapping geomembrane panels shall be shingled in the downward direction to facilitate drainage in the event of precipitation. It is beneficial to proceed in the direction of prevailing winds. Scheduling decisions must be made during installation in accordance with varying conditions. In any event, the Geosynthetics Installer shall be fully responsible for the placement procedures.

4.1.4 Weather Conditions

Geomembrane placement shall not proceed when sheet temperature, measured by placing a thermometer on the surface of the sheet, is below 32°F (0°C). Deviations from this temperature criterion shall only occur when authorized by the Design Engineer and with the concurrence of the CQA Consultant. Geomembrane shall not be seamed under adverse conditions, such as, precipitation, fog, snow, ponded areas, excessive winds, or wet geomembrane. Limited exceptions may be granted if the Geosynthetics Installer has established satisfactory installation methods under marginal weather conditions and has submitted an inclement weather placement plan.

The CQA Consultant shall verify that the above conditions are fulfilled and shall inform the Owner if the conditions are not fulfilled.

4.1.5 Anchorage System

Anchor trenches shall be excavated by the Earthwork Contractor (unless otherwise specified) to the lines and widths shown on the plans prior to geomembrane placement. The CQA Consultant shall verify that anchor trenches have been constructed according to the plans.

Slightly rounded corners will be provided in trenches. Loose soil shall not underlie the geomembrane in the trenches. Seaming of the geomembrane panels shall continue through the anchor trench.

Backfilling of anchor trenches shall be performed in accordance with project specifications and the CQA Plan.

4.1.6 Method of Placement

The following is the responsibility of the Geosynthetics Installer; the CQA Consultant shall document that these conditions are satisfied:

- equipment used does not damage the geomembrane by handling, traffic, excessive heat, leakage of liquids, or other means;

- the prepared soil surface has not deteriorated since previous acceptance, and is still acceptable immediately prior to geomembrane placement;
- geosynthetic materials immediately underlying the geomembrane are clean and free of debris;
- personnel working on the geomembrane do not smoke, wear damaging shoes, or engage in other activities that could damage the geomembrane;
- the method and equipment used to unroll the panels do not cause scratches or crimps in the geomembrane and do not damage the underlying prepared surface;
- the method used to place the panels minimizes wrinkles; and
- adequate temporary loading and/or anchoring (e.g., sand bags, tires) has been placed to prevent uplift by wind.

The CQA Consultant shall inform the Owner if any of the above conditions are not fulfilled.

4.1.7 Damage

The CQA Consultant shall visually observe each panel, after placement and prior to seaming, for damage. The CQA Consultant shall advise the Owner which panels, or portions of panels, should be rejected, repaired, or accepted. Damaged panels or portions of damaged panels, which have been rejected shall be marked and their removal from the work area shall be recorded by the CQA Consultant. Repairs shall be made according to the procedures described in the project specifications and CQA Plan.

4.2 FIELD SEAMING

Field seaming is the responsibility of the Geosynthetics Installer and shall be performed in accordance with approved methods. Approved methods for field seaming are extrusion seaming and fusion seaming. Proposed alternate methods shall be documented and submitted to the Design Engineer for approval. Only seaming equipment which has been specifically approved by make and model shall be used.

The following is the responsibility of the Geosynthetics Installer; the CQA Consultant shall verify that these conditions are met:

- the Geosynthetics Installer maintains on-site sufficient number of spare operable seaming apparatus discussed and approved at the Pre-Construction Meeting;
- equipment used for seaming is not likely to damage the geomembrane;
- the extruder is purged and heat-degraded extrudate has been removed from the barrel prior to beginning a seam;
- All cross seams are patched;
- the electric generator is placed on a flat smooth base with a rub sheet such that no damage occurs to the geomembrane; and

- a smooth insulating plate or fabric is placed beneath the hot seaming apparatus after usage.

4.2.1 Extrusion Seaming

The extrusion seaming apparatus shall be equipped with gauges giving the relevant information regarding the operation of the apparatus such as the temperatures of the extrudate, nozzle, and preheat. The Geosynthetics Installer shall provide documentation on the extrudate to the Owner and the CQA Consultant, and shall certify that the extrudate is compatible with the project specifications, and is comprised of the same resin as the geomembrane sheeting.

4.2.2 Fusion Seaming

The fusion seaming apparatus must be automated self-propelled devices, equipped with gauges giving the applicable temperatures. Pressure setting shall be verified by the Geosynthetics Installer prior to each seaming period.

4.2.3 Seam Preparation

The following is the responsibility of the Geosynthetics Installer; the CQA Consultant shall verify that these conditions are met:

- prior to seaming, the seam area is clean and free of moisture, dust, dirt, oils, greases, debris of any kind, and foreign material; the materials to be joined must be wiped with a clean cloth just prior to seaming;
- a rub sheet must be used to protect the liner while cutting any materials;
- if seam overlap grinding is required, the process is completed according to the geomembrane manufacturer's instructions within no more than 1 hour of the seaming operation;
- as a general guidance, the panels of geomembrane shall have a finished overlap of a minimum of 3 inches for extrusion seaming and 4 inches for fusion seaming, but in any event sufficient overlap will be provided to allow peel tests to be performed on the seam;
- no solvent or adhesive is used unless the product is approved in writing by the Design Engineer (samples will be submitted to the Design Engineer for testing and evaluation);
- procedures used to temporarily bond adjacent panels together do not damage the geomembrane (in particular, the temperature of hot air at the nozzle of any seaming apparatus is controlled such that the geomembrane is not damaged).
- no abrasions are visible when welding is complete;
- seams are aligned with the fewest possible number of wrinkles and "fishmouths;" and
- no metal objects that could potentially damage the liner are permitted for use on the lined area.

4.2.4 Trial Seams

Trial seams shall be made on scrap pieces of geomembrane to verify that seaming conditions are adequate and they shall be performed in accordance with Table 5. Such trial seams shall be made at least once every 5 hours. A passing trial seam shall be made for each seaming device. A change in machine on a previously passed trial seam warrants the welding of a new passing trial seam. Trial seams shall be made under the same conditions as actual seams. If a seaming apparatus is turned off for any reason, a new passing trial seam must be completed for that specific seaming apparatus.

The Geosynthetics Installer shall provide a tensiometer required for shear and peel testing of trial seams in the field. The tensiometer shall be automatic and shall have a direct digital readout. The tensiometer shall be calibrated prior to use at the project site and within the prior 12 months of the geomembrane installation commencement date. The Installer shall provide the Owner with the calibration certificate. The trial seam sample shall be at least 5 feet long by 1 foot wide (after seaming) with the seam centered lengthwise.

Six specimens, each 1 inch wide, shall be cut from the trial seam sample by the Installer. Three specimens shall be tested in shear and three in peel using a field tensiometer. For each fusion specimen, both tracks shall be tested. A passing welded seam is achieved in peel and shear when the specimen meets the project specifications.

If a specimen fails, the entire operation shall be repeated. If the additional trial seam sample fails, the seaming apparatus shall not be accepted for use until deficiencies are corrected and two consecutive successful trial seams are achieved.

The CQA Consultant shall observe trial seam procedures. The CQA Consultant shall also log the data, time of testing, ambient temperature, seaming unit number, name of seamer, and pass or fail description.

4.2.5 General Seaming Procedure

Unless otherwise specified, the general seaming procedure used by the Installer shall be as follows:

- For fusion seaming, a movable protective layer of plastic may be required to be placed directly below each overlap of geomembrane to be seamed. This is to help prevent any moisture build-up between the sheets to be seamed.
- If required, a firm substrate will be provided by using a flat board or similar hard surface directly under the seam overlap to achieve proper support.
- Wrinkles at the seam overlaps will be cut along the ridge of the wrinkle in order to achieve a flat overlap. The cut wrinkles will be seamed, and any portion where the overlap is inadequate will then be patched with an oval or round patch of the same geomembrane extending a minimum of 6 inches beyond the cut in all directions.
- Seaming will extend to the outside edge of panels to be placed in the anchor trench.
- No field seaming shall take place without the Field Superintendent being present.
- A patch shall be installed at all cross seams.

The CQA Consultant shall verify that the above seaming procedures are followed, and shall inform the Owner of any deviations from the above procedures.

4.2.6 Non-Destructive Seam Continuity Testing

The Installer shall non-destructively test field seams over their full length using a vacuum test unit (for extrusion seams or single fusion seams), air pressure test (for double-track fusion seams), or other approved method. For single fusion seams, the seam flap shall be removed prior to vacuum testing. The testing shall be carried out to the accepted standards of the industry. The purpose of non-destructive tests is to check the continuity of seams. Seam continuity testing shall be carried out as the seaming work progresses, not at the completion of all field seaming, unless otherwise approved by the Owner. The Installer shall complete any required repairs in accordance with project specifications and the CQA Plan. Non-destructive testing shall not be permitted before sunrise or after sunset unless the Geosynthetics Installer demonstrates capabilities to do so.

4.2.6.1 Air Pressure Testing

Unless otherwise specified, the general air pressure testing procedure used by the Geosynthetics Installer shall be as follows:

- Inflate the test channel to 30 to 35 psi, close valve, and observe initial pressure after approximately 2 minutes.
- Initial pressure settings are read after a 2 minute “relaxing period”. Initial pressure setting shall be between 30-35 psi. The purpose of the “relaxing period” is to permit the air temperature and pressure to stabilize.
- Observe and record the air pressure 5 minutes after “relaxing period” ends and initial pressure setting is measured. If the difference of pressure between these two measurements exceeds 3 psi, or if the pressure does not stabilize, locate the faulty area and repair.
- At the conclusion of the pressure test, the end of the seam opposite to the pressure gauge is cut. A decrease in a gauge pressure must be observed or the air channel will be considered “blocked” and the test will have to be repeated after the blockage is corrected.
- Remove needle or other approved pressure feed device and seal the resulting hole by extrusion welding.
- Test results will be recorded by the CQA Consultant.

4.2.6.2 Non-Complying Air Pressure Test

In the event of a non-complying air pressure test, the following procedure shall be followed:

- Check the seam and seals and retest the seam.
- If deviation with specified maximum pressure differential reoccurs, cut 1 inch samples from each end of the suspect area.

- Perform destructive peel tests on the samples using the field tensiometer.
- If all samples pass destructive testing, the Geosynthetics Installer may:
- Cap-strip the suspect area; or
- Further isolate the air pressure failure as agreed upon by the CQA Consultant and Owner.
- If one or more samples fail the peel tests, additional samples will be taken. When two passing samples are located, the suspect areas between the passing sample locations will be considered non-complying. In this section, the seam shall be cap stripped. Test the entire length of the repaired seam by vacuum testing.
- If the seam is in non-compliance due to air channel blockage, the blockage shall be isolated, removed, and the area repaired as agreed upon by the CQA Consultant and the Owner.
- All sections shall be retested and repaired in accordance with this section.

4.2.6.3 Vacuum Testing

Unless otherwise specified, the general vacuum testing procedure used by the Geosynthetics Installer shall be as follows:

- Turn on the vacuum pump to reduce the vacuum box to approximately 5 psi or the vacuum level specified by the manufacturer of the vacuum test device.
- Apply a generous amount of a solution of liquid soap and water to the area to be tested.
- Place the vacuum box over the area to be tested and apply sufficient downward pressure to “seat” the seal strip against the liner.
- Close the bleed valve and open the vacuum valve.
- Ensure that a leak tight seal is created.
- For a period of not less than 10 seconds, examine the geomembrane through the viewing window for the presence of soap bubbles.
- If no bubbles appear after 10 seconds, close the vacuum valve and open the bleed valve, move the box over the next adjoining area with a minimum 3 inch overlap, and repeat the process.

4.2.6.4 Non-Complying Vacuum Test

In the event of a non-complying vacuum test, the following procedure shall be followed:

- Mark all areas where soap bubbles appear and repair the marked areas, as specified in this section.

4.2.6.5 CQA Responsibilities

The CQA Consultant shall:

- document all non-destructive seam continuity testing;
- record location, date, unit number, name of tester, and outcome of all testing; and
- inform the Geosynthetics Installer and Owner of any required repairs.

When defects are located, the CQA Consultant shall:

- observe the repair and retesting of the repair;
- mark on the geomembrane that the repair has been made; and
- document the results.

4.2.6.6 Non-Testable Areas

In areas where seams cannot be non-destructively tested, the seaming operations shall be observed by the CQA Consultant and Geosynthetics Installer for uniformity and completeness.

4.2.7 Destructive Seam Testing

The Geosynthetics Installer will not be informed in advance of the locations where the seam samples will be taken.

4.2.7.1 Sampling Procedure

The CQA Consultant shall:

- Identify location for destructive tests;
- observe sample cutting;
- assign a number to each sample, and mark it accordingly; and
- record the sample location on the layout drawing.

Samples shall be cut by the Geosynthetics Installer as the seaming progresses in order to have passing laboratory test results before the geomembrane is covered by another material. All holes in the geomembrane resulting from destructive seam sampling shall be immediately repaired in accordance with repair procedures described in this Section of the CQA Plan. The continuity of the new seams in the repaired area will be tested.

4.2.7.2 Size of Samples

At a given sampling location, two types of samples shall be taken by the Geosynthetics Installer. The first sample shall consist of two specimens obtained for field testing. Each of these specimens will be 1 inch wide by 12 inches long, with the seam centered parallel to the width. The distance

between these two specimens will be 42 inches. If both specimens pass the field tests described below, the second sample for laboratory testing shall be taken, as discussed below. Otherwise, the destructive sample to be cut at the marked location is considered a failure and procedures described in this section for failed samples shall be followed.

The second sample for laboratory testing shall be located between the two specimens of the first sample. The destructive sample will be 12 inches wide by 42 inches long. The sample shall be cut into three parts and distributed as follows:

- One 12 inches by 12 inches portion to the Geosynthetics Installer;
- One 12 inches by 12 inches portion to the Owner; and
- One 12 inches by 18 inches portion for Geosynthetics CQA Laboratory testing.

The CQA Consultant shall visually observe field seams for marking the destructive samples. The CQA Consultant shall record the sample information on all three portions of each sample.

4.2.7.3 Field Testing

Two 1-inch wide specimens shall be tested in the field with the tensiometer, for peel and shear respectively, and shall meet the minimum requirements presented in the project specifications. If any field test sample fails to pass, then the procedure outlined for destructive test failure will be followed.

4.2.7.4 Geosynthetics CQA Laboratory Testing

Destructive test samples shall be packaged and shipped, if necessary, by the CQA Consultant in a manner that will not damage the test sample. The Owner shall be responsible for storing the archive samples. Test samples shall be tested by the Geosynthetics CQA Laboratory.

Testing will include shear and peel test methods as shown in Table 5. At least five specimens will be tested for each test method. No failure is acceptable for each method.

The Geosynthetics CQA Laboratory shall provide test results, in writing, no more than 24 hours after receipt of the sample. The CQA Consultant shall review laboratory test results as soon as the results become available, and make appropriate recommendations to the Owner.

4.2.7.5 Destructive Test Failure

The following procedure shall be followed when a destructive sample fails:

- The CQA Consultant shall mark one destructive sample on each side of the failed destructive sample. These new samples are for the purpose of isolating the substandard section of the seam. The distance between the failed destructive sample and the isolating destructive samples shall be agreed upon between the CQA Consultant and the Geosynthetics Installer.
- The isolating samples shall be collected and shipped to the Geosynthetics CQA Laboratory for testing.

- If both isolating destructive samples pass the project specifications, the substandard section of the seam is considered isolated and repairs shall be conducted in accordance with the procedures discussed below. If one or both isolating samples fail, the CQA Consultant shall mark additional isolating sample(s) at a distance from the originally failed destructive sample greater than the previous isolating sample location. The CQA Consultant shall continue this procedure until the substandard section of the seam is isolated between two passing isolating destructive samples.

- The Installer shall cap the substandard section of the seam. If the length of the cap exceeds 150 ft, a destructive sample shall be taken from the cap extrusion seam.

The substandard section of the seam may be alternatively isolated following the procedure discussed below:

- The Geosynthetics Installer can take a 1-inch wide sample of the seam at a distance (at least 10 ft) from the originally failed destructive sample. These samples shall be taken on each side of the originally failed destructive sample. The samples shall be tested for peel and shear in the field. If passing results are obtained, the CQA Consultant shall mark destructive samples at the passing locations. These destructive samples are for the purpose of isolating the substandard section of the seam. If the isolating destructive samples pass the project specifications, then the substandard section of the seam is considered isolated and repairs shall be conducted. If the 1-inch wide sample or isolating destructive sample did not pass the project specifications, additional samples shall be taken a new location farther from the originally failed destructive sample. As discussed above, the substandard section of the seam is considered isolated if bounded between two passing isolating destructive samples.

If a fusion type seam fails destructive testing, the Geosynthetics Installer has the option to reconstruct (remove the entire seam and seam the panels with a new seam) or cap the entire seam. In this case, the entire seam is considered substandard and the CQA Consultant shall identify seams constructed before and after the substandard seam. The identified seams shall be sampled to ensure seam strength meets the project specifications.

The CQA Consultant shall document all actions taken related to destructive testing.

4.3 DEFECTS AND REPAIRS

Seams and non-seam areas of the geomembrane shall be examined by the CQA Consultant to identify defects, holes, blisters, undispersed raw materials and any sign of contamination by foreign matter. This examination shall be performed by the CQA Consultant immediately following deployment of the geomembrane panel because light reflected by the geomembrane clean surface helps to detect defects. In the event that the geomembrane surface is not clean for examination, the geomembrane surface shall be swept or washed by the Geosynthetics Installer prior to the examination.

4.3.1 Repair Procedures

Any portion of the geomembrane exhibiting a flaw, failing a destructive, or failing a non-destructive test, shall be repaired. Several procedures exist for the repair of these areas. The final decision as to the appropriate repair procedure shall be approved by the Owner and the CQA Consultant. The procedures available include:

- Patching - Apply a new piece of geomembrane sheet over, and at least 6 inches beyond, the limits of a defect. The patch shall be extrusion seamed to the underlying geomembrane. This method should be used to repair large holes, tears, destructive test locations, undispersed raw materials, and contamination by foreign matter.

- Spot Seaming - Apply a "bead" of extrudate, maximum 6 inches in length, over a defect that has not penetrated the full thickness of the sheet, with the exception of air pressure test holes (gauge needle holes).

- Capping - Apply a new strip of geomembrane along the length of a delineated faulty seam. The cap strip shall extend at least 6 inches beyond the limit of the seam, and the edges will be extrusion seamed to the underlying geomembrane. This method can be used for the repair of both extrusion and fusion seams.

- Replacement - The faulty seam is removed and replaced.

In addition, the following provisions shall be satisfied:

- Surfaces of the geomembrane which are to be repaired will be abraded no more than one hour prior to the repair;

- All surfaces must be clean and dry at the time of the repair;

- All seaming equipment used in repairing procedures must be approved with trial seams;

- The repair procedures and materials will be approved by the CQA Consultant and Geosynthetics Installer in advance of the specific repair;

- Patches or caps will extend at least 6 inches beyond the edge of the defect, and all corners will be rounded;

- Cap or patch repairs over 150 feet in length will require a destructive test to be taken from the repair extrusion seam.

4.3.2 Verification of Repairs

Each repair shall be numbered and logged by the CQA Consultant and the Geosynthetics Installer. Each repair shall be non-destructively tested using the methods described in this section as appropriate. Repairs that pass the non-destructive test will be considered an indication of an adequate repair; however, if the CQA Consultant suspects a repair to be questionable, although it passes non-destructive testing, a destructive test can be requested. Failed tests will require the repair to be redone and retested until passing test results are obtained. The CQA Consultant shall observe non-destructive testing of the repairs and shall record the date of the repair and test outcome.

4.3.3 Large Wrinkles

When seaming of the geomembrane is completed and prior to placing overlying materials, the CQA Consultant shall inspect the geomembrane surface and seams for wrinkles. The CQA Consultant will indicate to the Geosynthetics Installer which wrinkles should be cut and resealed. The seam thus produced will be tested like any other repair.

4.4 BACKFILLING OF ANCHOR TRENCH

Anchor trenches will be adequately drained to prevent ponding or otherwise softening of adjacent soils while the trench is open. Anchor trenches shall be backfilled and compacted as soon as possible. Care shall be taken during backfilling of the trenches to prevent damage to the geosynthetics. The CQA Consultant shall observe the backfilling operation.

4.5 LINER SYSTEM CERTIFICATION/ACCEPTANCE

The Geosynthetics Installer shall retain ownership and responsibility for the geosynthetics rolls at the facility and installed geosynthetics in the project area until acceptance by the Owner.

The liner/cover system shall be accepted by the Owner when:

- the installation is finished;
- verification of the adequacy of seams and repairs, including associated testing, is complete;
- installer's representative furnishes the Owner with certification that the geomembrane was installed in accordance with the Manufacturer's recommendations; and
- all field documentation of installation is completed.

The CQA Consultant shall provide certification that installation has proceeded in accordance with this CQA Plan for the project except as noted in the Certification Report.

4.6 MATERIALS IN CONTACT WITH GEOMEMBRANE

The quality assurance procedures indicated in this subsection are only intended to verify that the installation of these materials does not damage the geomembrane. The CQA procedures provided in other sections of this CQA Plan must be followed to ensure that the liner/cover system is constructed in accordance with the project specifications.

4.6.1 Geocomposite

The CQA Consultant shall verify that the geocomposite is installed in accordance with the procedures described in this CQA Plan. Extreme care shall be exercised so as not to damage the geomembrane during placement of the geocomposite.

4.6.2 Appurtenances

The Design Engineer shall provide specifications for connection of geomembrane to appurtenances to the Owner and the CQA Consultant. The CQA Consultant shall verify that:

- installation of the geomembrane in appurtenance areas and connection of geomembrane to appurtenances have been made according to the project specifications;
- extreme care is taken while seaming around appurtenances since neither non-destructive nor destructive testing may be feasible in these areas; and

- the geomembrane has not been visibly damaged while making connections to the appurtenances.

The CQA Consultant will inform the Owner if the above conditions are not fulfilled.

5.0 GEOTEXTILE INSTALLATION

5.1 HANDLING AND PLACEMENT

The Geosynthetics Installer shall handle geotextiles in such a manner as to minimize damage to the geotextile and shall comply with the following:

- After the outer wrapping has been removed, the geotextile roll shall not be exposed to sunlight for more than the period specified by the Geosynthetics Manufacturer.
- On slopes, the geotextiles shall be securely anchored and then rolled down the slope in such a manner as to continually keep the geotextile panel under tension.
- In the presence of wind, geotextile shall be weighted with sandbags. Sandbags shall be installed during the placement and shall remain in place until replaced with the appropriate overlying material.
- Sandbags shall be filled with fine grained material and must be handled with care to prevent rupture.
- Geotextile shall be continually kept under tension to minimize the presence of wrinkles in the geotextile.
- Geotextiles shall only be cut using an approved geotextile cutter. Special care must be taken to prevent damage to other materials during the cutting of geotextile.
- The Geosynthetics Installer shall take necessary precautions to prevent damage to the underlying layers during placement of the geotextile.
- During the placement of geotextile, care shall be taken not to entrap stones, excessive dust, or moisture that could damage the geomembrane or generate clogging of drainage layers.
- After installation, the entire surface of the geotextile shall be inspected, and harmful foreign objects, such as needles, shall be removed.
- If white geotextile is used, precautions will be taken against “snow blindness”.

Any deviation from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

5.2 SEAMS AND OVERLAPS

Geotextile panels shall be continuously sewn using thread. The thread used for all sewing shall be polymeric thread, with chemical resistance properties equal to or exceeding those of the geotextile

component. The seams shall be sewn using stitch Type 401. The seam type shall be Federal Standard Type SSa-1. Spot sewing is not permitted, except for repairs. Thermal bonding shall not be permitted without the written approval of the Design Engineer. Geotextile panels shall be overlapped a minimum of 4 inches prior to seaming. No continuous horizontal seams are allowed on side slopes steeper than 20 percent, except as part of a patch. The Geosynthetics Installer shall pay special attention that no material is inadvertently inserted beneath the geotextile.

5.3 REPAIRS

Any holes or tears in the geotextile shall be repaired by the Geosynthetics Installer. A patch made from the same geotextile shall be sewn into place. If the hole or tear width across the roll is more than one-half the width of the roll, the damaged area shall be cut out and the two portions of the geotextile shall be joined as discussed above. The repair patch of geotextile that is heat bonded to geonet (such as the case of geocomposite) shall be heat seamed to the underlying geotextile. A minimum of 1 ft overlap in all directions is required. Care shall be taken to remove any soil or other material that may have penetrated the torn geotextile.

The CQA Consultant shall observe all repairs. Any deviation shall be noted by the CQA Consultant and reported to the Owner.

5.4 PLACEMENT OF MATERIALS OVER GEOTEXTILE

The Geosynthetics Installer shall place materials over geotextile in such a manner that:

- cause no damage to geotextile and underlying geosynthetics;
- allow minimal slippage of the geotextile over the underlying layers;
- equipment used for placing the overlying material shall not be driven directly on the geotextile;
- a minimum thickness of 1 foot of soil is maintained between light, low ground pressure equipment (such as a wide pad Caterpillar D-6 or lighter) and the geotextile;
- a minimum thickness of 1.5 feet of soil is maintained between a rubber-tired vehicle and the geotextile unless approved by the Design Engineer; and
- a minimum of 3 ft of soil is maintained below equipment wheels in heavily trafficked areas such as access ramps.

Any deviation from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

6.0 GEOCOMPOSITE INSTALLATION

6.1 HANDLING AND PLACEMENT

The Geosynthetics Installer shall handle geocomposite rolls in such a manner to minimize damage and comply with the following:

- On slopes, the geocomposites shall be secured in the anchor trench and then rolled down the slope in such a manner as to continually keep the geocomposite sheet under tension. If necessary, the geocomposite shall be positioned by hand after being unrolled to minimize wrinkles.

- In the presence of wind, geocomposites shall be weighted with sandbags. Such sandbags shall be installed during placement and shall remain until replaced with the overlying material.

- Sandbags shall be filled with fine grained material and must be handled with care to prevent rupture.

- Unless otherwise specified by the Design Engineer, geocomposites shall not be welded to geomembranes.

- The Geosynthetics Installer shall take necessary precautions to prevent damage to underlying layers during placement of the geocomposite. Care should be taken not to leave tools below geocomposite.

- During placement of geocomposites, care shall be taken not to entrap dirt or excessive dust that could cause clogging of the drainage system, or stones that could damage the underlying geomembrane. If dirt, excessive dust, or stones are entrapped below the geocomposite, the geocomposite and underlying liner shall be cleaned prior to placement of the overlying material.

- The Design Engineer shall observe and make recommendations if geocomposite panels are positioned such that liquid in one set of geocomposite panels drains to a single geocomposite panel positioned in perpendicular or at an oblique angle to the first set of panels. The Design Engineer shall devise procedures to prevent liquid head build up in the geocomposite.

- In the event that the slope geometry requires specific procedures for placement of panels, the matter shall be discussed among the involved parties, including the Design Engineer, prior to placement of panels in the area of concern.

Any deviation to these procedures shall be noted by the CQA Consultant and reported to the Owner.

6.2 STACKING AND JOINING

Stacked geocomposites shall be placed in the same direction to prevent the strands of one layer from penetrating the channels of the lower layer. Geocomposites shall not be laid in a direction perpendicular to the underlying geocomposite unless otherwise specified by the Design Engineer.

Adjacent geocomposites shall be joined according to the plans and project specifications. At a minimum, the following requirements shall be met:

6.2.1 Geonet Components:

- Adjacent rolls shall be overlapped by at least 4 inches.
- The overlaps shall be secured by tying.
- Tying shall be achieved by nylon cable ties. Tying devices will be white or yellow for easy observation. Metallic devices are not allowed.
- Tying devices shall be placed every 4 feet down the slope, every 2 feet across the slope and across butt seams of adjacent panels, every 9 inches in the anchor trench, and every 4 feet on horizontal surfaces.

6.2.2 Geotextile Components:

- The bottom layers of geotextile shall be overlapped, or the geotextile from one panel shall be cut and removed and the geotextile from another panel shall be placed against the underlying geomembrane (without folding back the geotextile underneath the geocomposite). The top layer of geotextile shall be continuously sewn (i.e., spot sewing is not allowed). Geotextiles shall be overlapped a minimum of 4 inches prior to sewing.
- No continuous horizontal seams shall be allowed on slopes steeper than 10 horizontal to 1 vertical.
- Polymeric thread, with chemical resistance properties equal to or exceeding those of the geotextile component, shall be used for all sewing. The seams shall be sewn using stitch Type 401. The seam type shall be Federal Standard Type SSa-1.

6.2.3 Geocomposite:

- In the corners of the side slopes of rectangular areas of the landfill, where overlaps between perpendicular geocomposite strips are required, an extra layer of geocomposite shall be unrolled along the slope, on top of the previously installed geocomposites, from top to bottom of the slope.
- When more than one layer of geocomposite is installed, joints shall be staggered.

Any deviations from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

6.3 REPAIR

Any holes or tears in the geocomposite shall be repaired by placing a patch extending 2 feet beyond the edges of the hole or tear. The patch shall be secured to the original geocomposite by tying every 6 inches. A geotextile strip shall be heat bonded along the patch boundary to close any openings between the patch and geocomposite. If the hole or tear width across the roll is more than one-half the width of the geocomposite roll, the damaged area shall be cut out and the two portions of the geocomposite shall be joined as discussed above.

The CQA Consultant shall observe all repairs, and any deviations from the above procedures shall be noted and reported to the Owner.

6.4 PLACEMENT OF MATERIALS OVER GEOCOMPOSITE

Placement of materials over the geocomposite shall take place at the earliest possible time so that:

- the geocomposite does not remain exposed to UV radiation for an extended period of time;
- the geocomposite and underlying geomembrane are not damaged;
- minimal slippage of the geocomposite over the underlying geomembrane occurs; and
- no excess tensile stresses occur in the geocomposite.

Before the next layer of geosynthetic is placed over the geocomposite, the CQA Consultant shall inspect the geocomposite and underlying liner to determine if any dirt, excessive dust, or stones are entrapped below the geocomposite. If so, the geocomposite and geomembrane must be cleaned before placement of the next geosynthetic over the geocomposite.

Any deviation from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

7.0 GCL INSTALLATION

The soil surface over which GCL is to be installed shall be as-built by the Land Surveyor. The as-built survey shall be inspected by the CQA Consultant to ensure that the soil surface meets the specified grades (within tolerance) in the project specifications. The Geosynthetics Installer and CQA Consultant shall certify in writing that the soil surface over which the GCL will be installed is acceptable. It is the Geosynthetics Installer's responsibility to protect the surface over which the GCL will be installed after it has been accepted. After accepting the surface, it shall be the responsibility of the Geosynthetics Installer and the CQA Consultant to indicate to the Owner any changes in the surface condition that may require repair work.

7.1 HANDLING AND PLACEMENT

The Geosynthetics Installer shall handle GCL panels in such a manner as to minimize damage, and shall comply with the following:

- On slopes, the GCL panels shall be securely anchored and then rolled down the slope in such a manner as to continually keep the GCL panel under tension.
- In the presence of wind, GCL panels shall be weighted with sandbags.
- Sandbags shall be filled with fine grained material and must be handled with care to prevent rupture.
- GCL panels shall be continually kept under tension to minimize the presence of wrinkles in the GCL.

- GCL panels shall be cut using an approved cutter only. If in-place, special care must be taken to protect underlying materials from damage.

- The Geosynthetics Installer shall take necessary precautions to prevent damage to the underlying layers during placement of the GCL panels.

- During placement of GCL panels, care shall be taken not to entrap stones, excessive dust, or moisture that could damage the underlying geomembrane, clog the underlying drainage layer, or hamper subsequent seaming of overlying geomembrane.

- After installation, the entire surface of the GCL shall be visually inspected to remove harmful foreign objects, such as needles.

- If white GCL is used, precautions will be taken against "snow blindness".

- The GCL shall not be installed during precipitation or other conditions that may cause hydration of the GCL.

Any deviations from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

7.2 SEAMS AND OVERLAPS

All GCL panels shall be overlapped for a minimum of 6 inches along the panel length, and a minimum of 12 inches along the panel width. The overlaps shall not be nailed or stapled to the underlying materials. Dry bentonite powder shall be placed in between the overlap surfaces along the seam, if required by the manufacturer.

Any deviations from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

7.3 REPAIR

Any holes or tears in the GCL shall be repaired by placing a GCL patch over the hole. The patch shall extend a minimum of 12 inches beyond the edges of the hole or tear. Dry bentonite powder shall be placed in between the overlap surfaces, if required by the manufacturer. Patches shall not be nailed or stapled. If the hole or tear width across the roll is more than one-half the width of the roll, the damaged area shall be cut out and the two portions of the GCL shall be joined as discussed above.

Care shall be taken to remove any soil or other material that may have penetrated the torn in the GCL.

The CQA Consultant shall observe all repairs; note any deviation from the above procedures and report deviations to the Owner.

7.4 PLACEMENT OF MATERIALS OVER GCL

The Geosynthetics Installer shall place materials over GCL in the following manner:

- cause no damage to GCL and underlying soils or geosynthetics; and

- allow minimal slippage of the GCL over underlying layers.

Any deviation from the above procedures shall be noted by the CQA Consultant and reported to the Owner.

8.0 POLYETHYLENE PIPE AND FITTINGS

8.1 MATERIAL REQUIREMENTS

High Density Polyethylene (HDPE) pipe and its associated fittings and joints shall meet the project specifications

8.2 FUSION PROCESS FOR JOINTS

HDPE pipes and fittings shall be joined by the Pipe Installer using the procedures outlined below, unless otherwise specified.

8.2.1 Preparation

Delivered pipes and fittings shall be examined by the Pipe Installer. The Pipe Installer shall verify that pipes and fittings are not broken, cracked, or contain otherwise damaged or unsatisfactory material.

Prior to fusing, the Pipe Installer shall verify that the fusion surface area is clean and free of moisture, dust, dirt, debris of any kind, and foreign material.

The CQA Consultant shall notify the Owner in the event of any deviations from the above procedures.

8.2.2 Weather Conditions for Butt-Fusion

Butt-fusion welding of HDPE pipe joints is normally done in uncontrolled atmospheres. Fusion of the HDPE joints shall be performed at temperatures above 32^{0}F, unless otherwise authorized in writing by the Design Engineer.

8.2.3 General Butt-Fusion Procedure

Unless otherwise specified, the general butt-fusion welding procedure used by the Pipe Installer shall be as follows:

- be sure that the surfaces of the fusion tools, pipe and fittings are free of moisture and debris;
- heat the surfaces to be joined simultaneously at the prescribed temperatures for a specified time;
- remove the heater and bring the melted surfaces together; and
- hold until solidified.

The CQA Consultant shall verify that the general butt-fusion welding procedures have been followed by the Pipe Installer. If a different joining method is proposed, it shall be approved in advance by the Design Engineer.

8.3 PRESSURE TESTING OF JOINTS

The joints of specific non-perforated HDPE pipes shall be tested by the Pipe Installer using water. The Design Engineer will specify the pipes that shall be pressure tested and the test pressure.

8.3.1 Segment Testing Prior to Installation

The following steps shall be performed prior to installation:

- Similar sized polyethylene piping shall be butt-welded together into testing segments not exceeding 2,000 feet in length. Segments shall be fitted with a cap on one end and testing apparatus on the other.
- The segment to be tested should be laid on the ground surface and allowed time to reach constant and/or ambient temperature before starting the test.
- The test should be performed during a period when the pipe segment will be out of direct sunlight when possible, i.e., early morning, late evening, or cloudy days. This will minimize the pressure changes which might occur during temperature fluctuations.
- The hydrostatic test pressure shall be specified by the Design Engineer.
- The Pipe Installer shall submit verification and results of gauge calibration prior to performing the test. The calibration results shall not be older than 60 days of the project commencement date.
- During the test, no pressure drop shall be observed over a period of 1 hour.

8.3.2 Test Failure

The following steps shall be performed when a pipe segment fails the 1 hour test:

- The pipe and all fusion welds shall be inspected for cracks, pinholes or perforations.
- All capped ends shall be inspected for leaks.
- Leaks shall be verified by applying a soapy water solution and observing soap bubble formation.
- Leaking sections shall be cut out or repaired.
- The pressure test shall be repeated until passing results are achieved.

8.3.3 Test Reporting

All testing shall be reported in writing to the Owner and shall include the following information:

- date and time;
- person performing test;

- pipe lengths and sizes;
- test pressure at start and finish; and
- ambient temperature at start and finish.

The following information shall be reported in writing if a failure occurs:

- nature of leaks found; and
- details of repair.

The CQA Consultant shall report to the Owner test results and any deviation from the testing procedures.

Table 1. Standard Test Methods for Evaluation of Soil and Aggregate

Common Test Name	Parameter Determined	Standard Method
Laboratory Tests:		
Sieve Analysis	Particle Size Distribution of Coarse ASTM D 422	ASTM D 422
Atterberg Limits	Liquid and Plastic Limits, Plasticity Index	ASTM D 4318
Standard Proctor Density	Moisture/Density Relationship Using 5.5 lb Rammer and 12 inches Drop	ASTM D 698
Moisture Content	Water to Dry Weight Ratio	ASTM D 2216
Permeability - Constant Head	Permeability (Hydraulic Conductivity) of Aggregates	ASTM D 2434
Carbonate Content	Carbonate Content of Soil or Aggregate	ASTM D 4373
Organic Content	Organic Content of Soil	ASTM D 2974
Field Tests:		
Visual Classification	Maximum Particle Size, General Material	Characteristics
Nuclear Densimeter	In-Place Density, and In-Place Moisture Content	ASTM D 6938 ASTM D 6938
Sand Cone Density	In-Place Density as a Check on the Nuclear Densometer Measurements	ASTM D 1556
Drive Tube Sample	In-Place Density as a Check on the Nuclear Densometer Measurements	ASTM D 2937
Lift Depth Check	Thickness of Placed Soil Material	Visual Confirmation

Table 2. Minimum Test Frequencies For Qualifying Soils

Component	Required Test	Minimum Frequency
Protective Cover	Sieve Analysis	1 per 20,000 cy or 1 per source, whichever greater
	Carbonate Content	1 per 20,000 cy or 1 per source, whichever greater
	Hydraulic Conductivity	1 per 20,000 cy or 1 per source, whichever greater
	Organic Content	1 per 20,000 cy or 1 per source, whichever greater
Aggregate	Sieve Analysis	1 per source

Notes:

1. Screening of soil materials will be at the discretion of the Design Engineer.
2. Samples shall be collected from screened piles if screening is required.

Table 3. Minimum Test Frequencies for Soil Components During Construction

Component	Required Test	Minimum Frequency
Subgrade	Visual	Observation: as required by CQA Consultant
	Standard Proctor Density	1 per each type of in-place soil
	Nuclear Densometer In Place Density and Moisture Content	6 per acre
Protective Cover	Sieve Analysis	1 per 10,000 cy
	Carbonate Content	1 per 10,000 cy
	Hydraulic Conductivity	1 per 10,000 cy
	Organic Content	1 per 10,000 cy

Notes:

1. Screening of soil materials will be at the discretion of the Design Engineer.
2. Samples shall be collected from the screened pile if screening is required.

Table 4. Geomembrane Conformance Tests

Property	Test Method
Thickness	D 5994
Density	D 1505
Asperity Height	D 7466
Strength at Yield	D 6693
Strain at Yield	D 6693
Strength at Break (as modified by GRI GM13)	D 6693
Strain at Break	D 6693
Carbon Black Content	D 4218
Carbon Black Dispersion	D 5596
Direct Shear	D 5321

Notes:

1. Conformance testing shall be performed at the frequency of 1 test per 100,000 ft^2 or one test per lot, whichever greater, of material delivered to the site.
2. Rolls remaining from previous construction activities shall be retested if conformance test documentation for the rolls is not available.
3. Interface shear strength test shall be performed at Design Engineer's approval. ASTM D5321 or equivalent shall be used for the interface shear strength test.
4. Any variation to these specifications must be at Design Engineer's approval.

Table 5. Standard Tests for Geomembrane Seams

Property	Test Method
Shear Test	D 6392
Peel Test	D 6392

Notes:

1. No failure of any of the five specimens tested is acceptable. For double fusion welded seams, both tracks shall be tested for compliance with the minimum property values listed in the technical specifications.

2. Any variation to these specifications must be at Design Engineer's approval.

Table 6. Geotextile Conformance Tests

Property	Test Method
Mass Per Unit Area	D 5261
Grab Tensile	D 4632
Puncture Strength	D 6241
Trapezoidal Tear	D 4533
Apparent Opening Size	D 4751
Hydraulic Conductivity	D 4491

Notes:

1. The conformance testing shall be performed at the frequency of 1 test per 100,000 ft^2 or one test per lot, whichever greater, of material delivered to the site; with the exception of the apparent opening size and hydraulic conductivity tests that shall be performed at the frequency of 1 test per 250,000 ft^2 or one test per lot, whichever greater.

2. Any variation to these specifications must be at Design Engineer's approval.

Table 7. Geocomposite Conformance Tests

Property	Test Method
Geotextile Component:	
Mass Per Unit Area	D 5261
Grab Strength	D 4632
Puncture Strength	D 6241
Trapezoidal Tear	D 4533
Apparent Opening Size	D 4751
Hydraulic Conductivity	D 4491
Geonet Component:	
Thickness	D 5199 (GT Method)
Density	D 1505
Geocomposite:	
Transmissivity	D 4716
Peel Strength	D 7005
Direct Shear	D 5321

Notes:

1. The conformance testing on geotextile and geonet components of the geocomposite shall be performed at the frequency of 1 test per 100,000 ft^2 or one test per lot, whichever greater, of the material delivered to the site; with the exception of the apparent opening size and hydraulic conductivity tests that shall be performed at the frequency of 1 test per 250,000 ft^2 or one test per lot, whichever greater. Geotextile and geonet conformance samples shall be collected at the plant prior to heat bonding.

2. The conformance testing on geocomposite samples shall be performed at the frequency of 1 test per 100,000 ft^2, with the exception of the transmissivity testing that shall be performed at the frequency of 1 test per 250,000 ft^2.

3. Transmissivity conformance tests on the leachate collection geocomposite specimens shall be conducted with the specimen placed between the protective cover soil material from the site (placed above the specimen) and a 60-mil textured geomembrane (placed below the specimen). The sample shall be tested under 10,000 psf confining pressure. The sample shall remain under the specified confining pressure for 24 hours before measurements are taken.

6. One specimen of each type of geocomposite material used in lining system shall be tested with a 100 hours seat time to qualify the geocomposite material for use in the project. The sample set up shall be similar to the descriptions in Note 3 above for the leachate collection geocomposite or Note 4 above for the leachate detection geocomposite. Measurements shall be taken at 15 minutes, 1 hour, 24 hours, and 100 hours. The 100-hour test may be waived provided results from a 100-hour test, performed during the prior 5 years, on the same geocomposite product (same geonet and geotextile) under similar boundary conditions, are available from a previous construction activity at the site.

7. Interface shear strength tests shall be performed at the interface of the leachate collection geocomposite and protective cover soil, at the interface of the leachate collection geocomposite and a 60-mil textured geomembrane, at the interface of the GCL and subgrade.

8. Any variation to these specifications must be at Design Engineer's approval.

Table 8. Geosynthetic Clay Liner Conformance Tests

Property	Test Method
Bentonite Content	D 5993
Hydraulic Conductivity	D 5887
Direct Shear	D 5321 for interface shear test D 6243 for internal shear test

Notes:

1. The conformance testing frequency shall be at 1 test per 100,000 ft^2 or one test per lot, whichever greater, of the material delivered to the site. Hydration and consolidation of the specimen shall occur for a minimum of 48 hours, using a 5 psi pressure difference between the cell pressure and the back pressure, before commencement of the test. The test shall be conducted under a 2 psi back pressure differential. The test shall continue until steady state conditions are reached or a minimum of two pore volumes of permeant fluid has passed through the specimen.

2. At least one specimen from each GCL product shall be tested for hydraulic conductivity under the above-described conditions using leachate from the site as the permeant fluid. The test may be waived provided results from a similar test, performed during the prior 5 years, on a similar GCL product are available from a previous construction activity at the site.

3. At least one specimen from each GCL product shall be tested for hydraulic conductivity under the above-described conditions using water that may cause hydration of the GCL at the project site as the permeant fluid. The test may be waived provided results from a similar test, performed during the prior 5 years, on the same GCL product are available from a previous construction activity at the site.

4. The interface shear tests shall be performed at the interface of GCL and a 60-mil textured geomembrane, at the interface of GCL and the leachate detection geocomposite, and at the interface of GCL and base layer soil material from the site.

5. Any variation to these specifications must be at Design Engineer's approval.

Appendix J

Surface Water Drainage Analysis

Appendix J

Surface Water Drainage Analysis
Mohave Valley Landfill
Solid Waste Facilities Plan
Type IV Change to MFPA No. 08004600

Division of Environmental Quality/Waste Disposal
Mohave County Development Services
3250 E Kino Ave,
Kingman, AZ 86409
Phone: 928-757-0903

SCS ENGINEERS

01216008.10 | December 2025

6100 South Maple Avenue
Suite 118
Tempe, AZ 85283
602-840-2596

Table of Contents

Section Page

1 Run-off Surface Water Modeling 2
1.1 MODELING METHOD 2
1.2 ANALYSIS 2
1.3 PARAMETERS USED IN THE ANALYSIS 2
1.4 SUMMARY OF RESULTS 3
Stormwater Let-down Structures 3
Slope Integrated diversion channels 4
Waste Top Deck Integrated Berms 4
Culverts 4
Retention Basin 5
2 Surface water Run-on Diversion 5

Exhibits

Exhibit 1. Run-off Design Figures
Exhibit 2. Storm and Sanitary Analysis Results
Exhibit 3. NOAA Atlas 14 Rainfall Frequency Estimates
Exhibit 4. NRCS Web Soil Survey
Exhibit 5. TR-55 Manual Data
Exhibit 6. KHA Run-on Diversion Channel and Basin Design Report

1 RUN-OFF SURFACE WATER MODELING

1.1 MODELING METHOD

The site wide drainage analysis for the proposed final grading conditions of the Mohave Valley Landfill (facility, site, landfill) was performed using Autodesk Storm and Sanitary Analysis 2020 (SSA).

1.2 ANALYSIS

A detailed engineering analysis was performed on the components that comprise the buildout stormwater management system for surface water run-off within the facility boundaries. The components analyzed for this permit modification include:

1. Stormwater Let-down Structures
2. Slope Integrated diversion channels
3. Waste top deck Integrated diversion berms
4. Culverts

As required by **Arizona Administrative Code (AAC) Title 18, Chapter 13** managed by **Arizona Department of Environmental Quality (ADEQ)**, the hydrologic analysis was performed utilizing a 25-year, 24-hour rainfall event. SSA was utilized to perform the engineering analysis to verify compliance with the above regulations for the post development buildout conditions of the Facility as proposed in the 2026 permit modification. This is considered to be a conservative approach for the design capacity of the stormwater pond and other conveyance features.

SSA was utilized to illustrate the capacity of the stormwater let-down structures, side slope berms, and stormwater channels (V-ditch). These results were generated to assure that the conveyance parameters of stormwater design elements are adequate.

1.3 PARAMETERS USED IN THE ANALYSIS

The following are the lists of parameters that were considered for stormwater management:

Based on **AAC Title 18, Chapter 13**, a 25-year, 24-hour rainfall event was considered for design of the proposed landfill permit area. The proposed disposal area was first segregated into 44 sub-basins (i.e. drainage areas), 71 nodes (i.e. collection points), and 72 links (i.e. channels or culverts). It was concluded that the Landfill would fall into the Type II rainfall distribution as published in Figure B-2 of the National Resource Conservation Society's (NRCS) Technical Release 55: Urban Hydrology for Small Watersheds (TR-55) (See Exhibit 5).

The 25-year, 24-hour rainfall data used for this analysis were taken from National Oceanic and Atmospheric Administration (NOAA), rain station for "Bullhead City" (#02-1050) from NOAA Atlas 14, Volume 1, Version 5 (See Exhibit 3). The EPA SWMM hydrology method was used due to its flexibility, such as allowances for existing soil moisture and evaporation.

For each element in the design, the following parameters, if applicable, were input or calculated using the SSA software and dialogue box selections, typical values or site design information:

- Run-off Curve Number (CN) = 77 assuming

        - Chuckawalla-Riverbend complex, Hydraulic Soil Group (HSG) B from NRCS Web Soil Survey for the Facility (See Exhibit 4).
        - CN for HSG B "Desert Shrub - Poor", for arid/semiarid climates from Table 2-2d of the TR-55 Manual (See Exhibit 5).
- Area (Ac);
    - Automatically calculated for each sub-basin based on site design
- Impervious Area (%);
    - 0% assumed globally this site is not expected to have significant areas, if any, impervious surfaces
- Drying Time (days);
    - 7 days assumed globally
- Average Slope (%);
    - 1% to 1.5% for top deck berms
    - 1.6% to 6.89% for perimeter channels
    - 3 horizontal to 1 vertical for waste fill side slopes
    - 5% waste top deck
- Equivalent Width (ft)
    - Critical flow path as determined by site design for each sub-basin and is automatically calculated by SSA
- Pervious Area Manning's Roughness, taken from SSA databases;
    - 0.070 for Landfill berms and channels– "Excavated or Dredged Channels – Channels not Maintained, Weeds and Brush Uncut - highest stage of flow"
    - 0.032 for Let-down Structures, "Riprap Channels"
    - 0.024 for Corrugated Metal Pipe (CMP) Culvert – "Storm Drain"
- Link Invert Information (elevation)
    - Taken from site design.
- Link Cross Section
    - Triangular Channels for along the side slopes diversion berms
    - Trapezoidal channels along the access road and toe of side slopes
    - Trapezoidal Channel for all let-down structures
    - Round CMP for all culverts

1.4 SUMMARY OF RESULTS

1.4.1 Stormwater Let-down Structures

Four (4) stormwater let-down structures are planned for the final landfill configuration, structure 1 – 4. These let-down structures has been designed as a trapezoidal open channel with a depth of 2-ft and bottom width of 6 feet and 2:1 side slopes. The design flow capacity of these let-down structures is between 580 and 679 cubic feet per second (cfs) which is more than enough to handle the 30 cfs maximum flow. Although these dimension vastly oversize the letdown structure for the expected peak flow, the dimensions were chosen for ease of maintenance. The SSA calculated maximum peak flow values from a 25-year, 24-hour rainfall event for lower most design segments of the let-down structures have a maximum peak flow of 28.48 cfs. Figures depicting links, junctions, basins, and storage nodes for visual reference in Exhibit 1. The SSA generated output tables for the stormwater analysis can be found in Exhibit 2.

1.4.2 Slope Integrated diversion channels

The landfill slope integrated diversion channels were designed assuming that the channels would collect and transfer the entire area of each side slope subbasin run-off volume. Each slope integrated channel has at least one contributing drainage area varying in size. The slope integrated channels will be constructed of a compacted soil berm and tacked onto the final cover system slope and will have a flowline grade of ~2 percent minimum and have a depth of 1.5-feet with side slopes of the berms will be between 3H:1V. The SSA model demonstrates that this berm configuration provides sufficient flow capacity to manage the peak flow run-off from the 25-year, 24-hour storm event. Figures depicting links, junctions, basins, and storage nodes for visual reference in Exhibit 1. The SSA generated output tables for the stormwater analysis can be found in Exhibit 2.

1.4.3 Waste Top Deck Integrated Berms

In this model it is assumed that the topdeck will sheet flow over the crest and to the slope integrated diversion channel immediately downslope of the crest. As needed, however not modeled, the landfill map incorporate waste top deck integrated berms to collect the sheet flow on top deck and transfer it to a short let down structure to minimize erosion on the crest.

1.4.4 Culverts

The outfall must transition through a culvert below the main access/haul roads prior to reaching the retention pond. There are also four culverts that connect surrounding subbasins with the main side slope channel of the landfill. Culverts are sized to flow approximately half full at peak discharge. The culverts shown are for permitting purposes only and may be changed with other culvert materials, shapes, diameters, or # of barrels as needed to suit the needs of the facility at the time of construction as long as the alternate has equivalent capacity and performance. The following is a summary of the culverts proposed at the facility:

- Southwest Culvert (Link 55)
    - 2 Barrels 70-inch, Corrugated Metal Pipe Culvert
    - Design Flow = 2265.41 cfs
    - Peak Flow during design storm = 120.30 cfs

- South Upper Road Crossing Culvert (Link 21)
    - 2 Barrel 18-inch, Corrugated Metal Pipe Culvert
    - Design Flow = 17.33 cfs
    - Peak Flow during design storm = 7.44 cfs

- South Middle Road Crossing Culvert (Link 75)
    - 2 Barrel 18-inch, Corrugated Metal Pipe
    - Design Flow = 32.17 cfs
    - Peak Flow during design storm = 10.31 cfs

- South Lower Road Crossing Culvert (Link 29)
    - 2 Barrel 24-inch, Corrugated Metal Pipe
    - Design Flow = 70.75 cfs

- Peak Flow during design storm = 6.03 cfs

- West Lower Road Crossing Culvert (Link 111)
  - 1 Barrel 36-inch Concrete Box Culvert
  - Design Flow = 78.64 cfs
  - Peak Flow during design storm = 17.08 cfs

1.4.5 Retention Basin

At closure at the latest, the facility will construct an onsite retention basin capable of retaining the full volume of the 25-year 24-hour storm event. This basin will be located in the southwest corner of the facility. The pond will have an approximate depth of 10-ft and have 2-feet of freeboard. The pond will be equipped with an emergency outfall which will allow for controlled and clarified discharge of overflow to the controlled outfall at the southwest property line and into the adjacent offsite intermittent wash.

2 SURFACE WATER RUN-ON DIVERSION

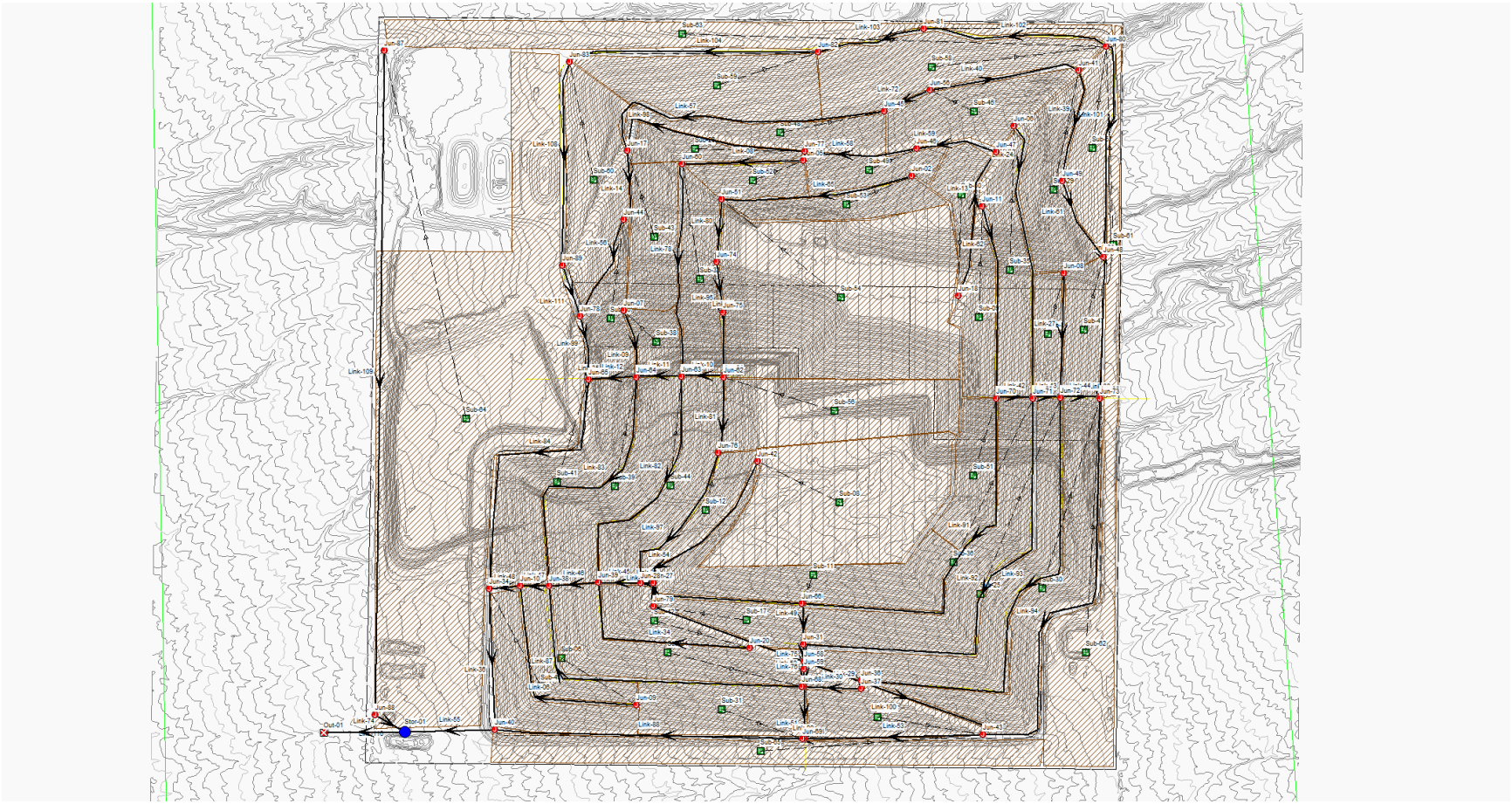
The general regional surface water flows are from Northeast to Southwest. There are several natural intermitent washes that intersect the northern and eastern boundary of the site and several currently flow across the future development area. Two of these washes, one on the north and one on the east are 404 Army Corps of Engineers Jurisdictional waterways (404 waterway) which must be rerouted and discharged on the west side of the property.

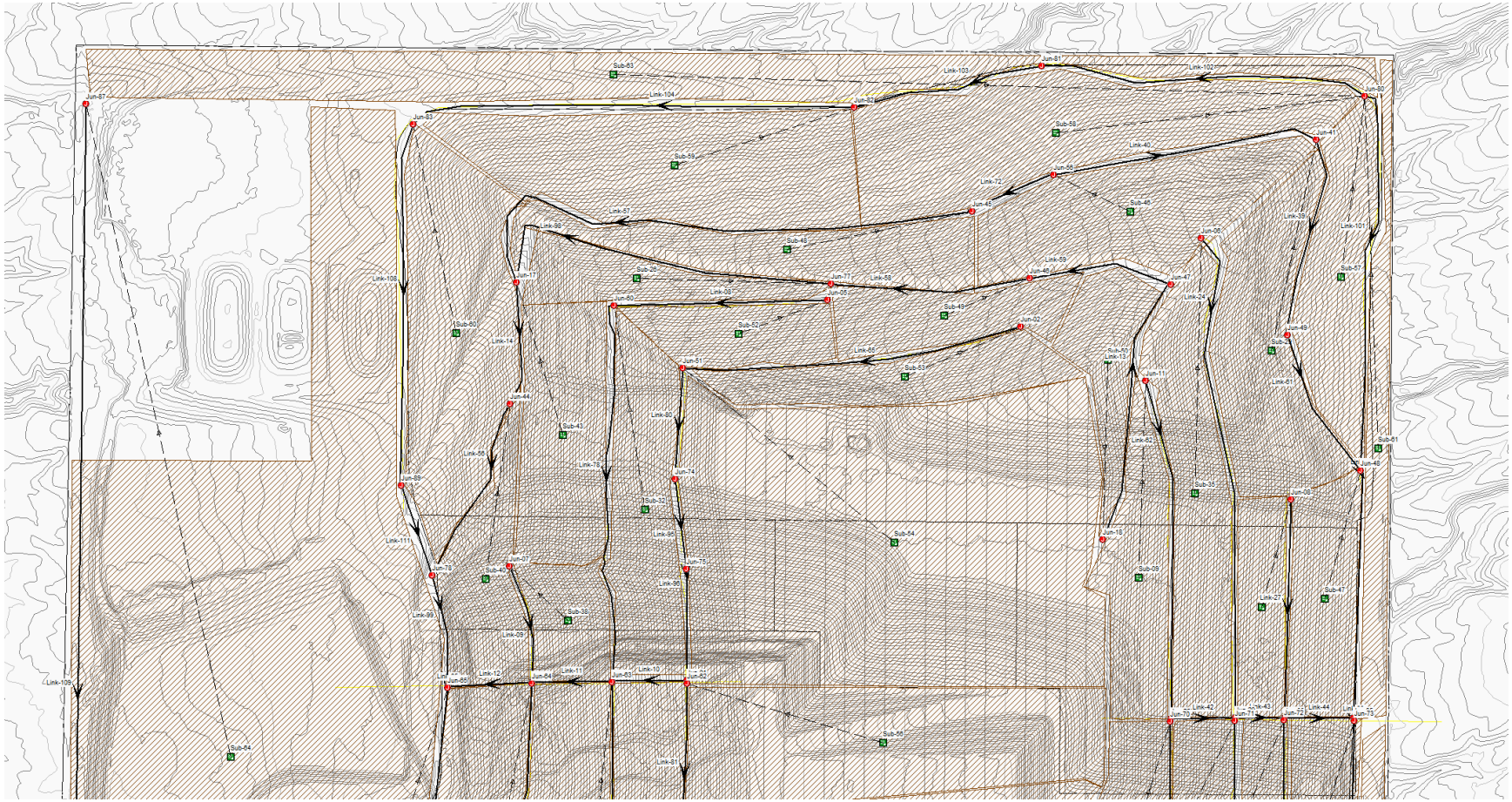
The northern 404 waterway is currently being captured and routed to the west by an existing earthen run-on diversion channel along the northern site boundary which was constructed when Cells 1-8 were in operation. See Figure in Exhibit 7 attached displaying location of northern diversion channel.

The eastern 404 waterway will be captured, retained, attenuated and routed around the facility in a channel/basin system to be constructed prior to development of the future areas. The County has contracted with Kimley-Horn and Associates (KHA) to develop an offsite cut-off/diversion channel to along the eastern site boundary and a regional retention basin adjacent to the southeast corner of the landfill property boundary to capture divert and attenuate offsite regional surface water run-on flows. KHA's design report is provided in Exhibit 6.

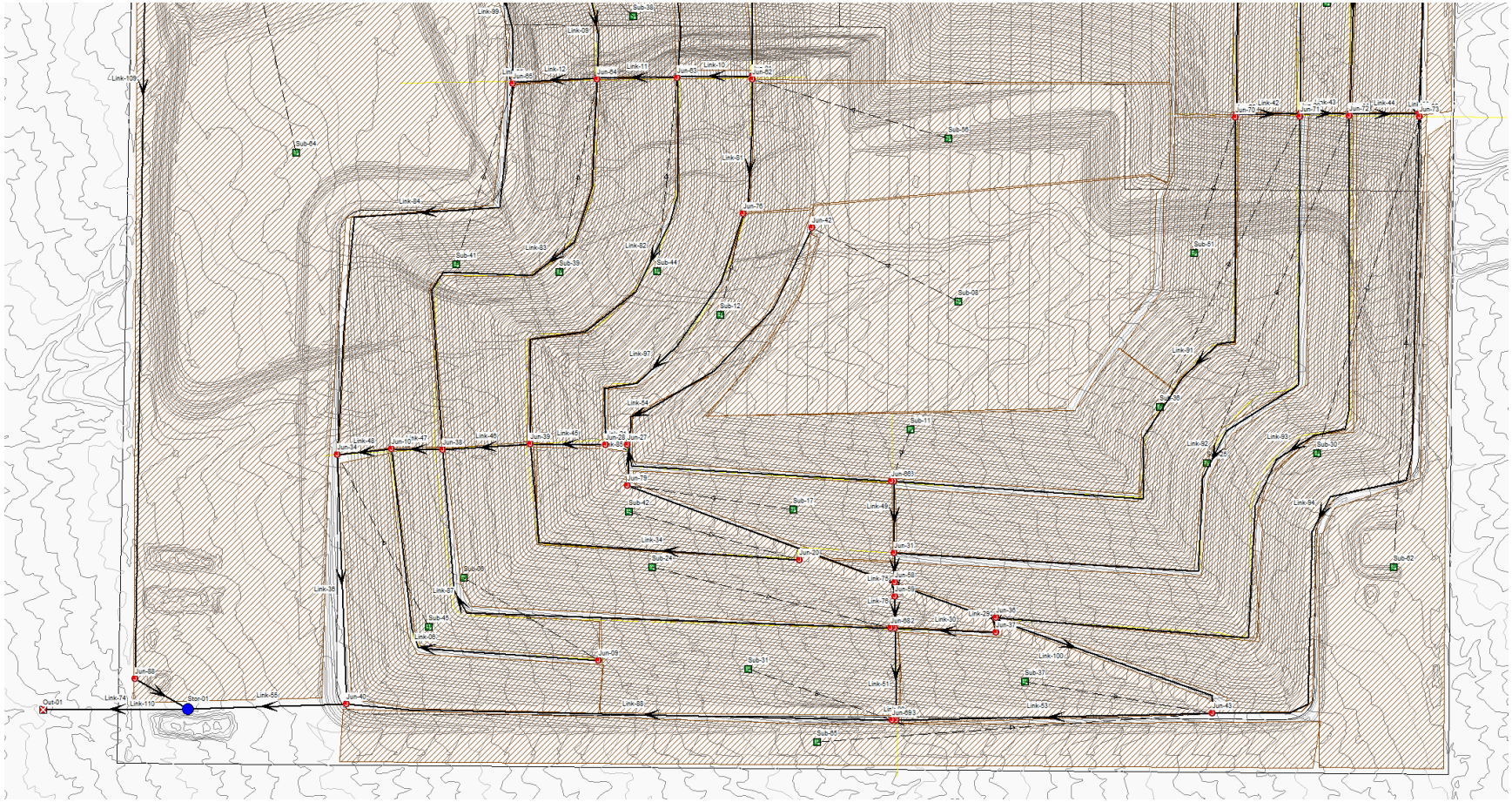
Both diversion channel systems have been designed to manage the peak flow from a 100-year, 24 hour storm event.

Exhibit 1. Run-off Design Figures





Autodesk Storm and Sanitary Analysis



Autodesk Storm and Sanitary Analysis

Exhibit 2. Storm and Sanitary Analysis Results

Project Description

File Name	Mohave Storm water design_MPB Review 121025.SPF

Project Options

Flow Units	CFS
Elevation Type	Elevation
Hydrology Method	EPA SWMM
EPA SWMM Infiltration Method	SCS Curve Number
Link Routing Method	Hydrodynamic
Enable Overflow Ponding at Nodes	YES
Skip Steady State Analysis Time Periods	NO

Analysis Options

Start Analysis On	00:00:00	0:00:00
End Analysis On	00:00:00	0:00:00
Start Reporting On	00:00:00	0:00:00
Antecedent Dry Days	0	days
Runoff (Dry Weather) Time Step	0 01:00:00	days hh:mm:ss
Runoff (Wet Weather) Time Step	1 00:05:00	days hh:mm:ss
Reporting Time Step	0 00:05:00	days hh:mm:ss
Routing Time Step	30	seconds

Number of Elements

	Qty
Rain Gages	1
Subbasins	44
Nodes	71
Junctions	69
Outfalls	1
Flow Diversions	0
Inlets	0
Storage Nodes	1
Links	72
Channels	67
Pipes	5
Pumps	0
Orifices	0
Weirs	0
Outlets	0
Pollutants	0
Land Uses	0

Rainfall Details

SN	Rain Gage ID	Data Source	Data Source ID	Rainfall Type	Rain Units	State	County	Return Period	Rainfall Depth

Subbasin Summary

SN	Subbasin ID	Area	Impervious Area	Weighted Curve Number	Average Slope	Equivalent Width	Impervious Area Manning's Roughness	Pervious Area Manning's Roughness	Total Rainfall	Total Infiltration	Total Runoff	I V
		(ac)	(%)		(%)	(ft)			(in)	(in)	(in)	
1	Sub-06	1.30	0.00	77.00	33.0000	541.33	0.2500	0.2500	2.80	1.4450	1.15	
2	Sub-08	11.23	0.00	77.00	7.0000	1346.04	0.0150	0.1000	2.80	1.4450	1.13	
3	Sub-09	2.85	0.00	77.00	33.0000	645.27	0.0150	0.1000	2.80	1.4450	1.15	
4	Sub-11	3.78	0.00	77.00	33.0000	708.77	0.0150	0.1000	2.80	1.4450	1.15	
5	Sub-12	1.02	0.00	77.00	33.0000	658.22	0.0150	0.1000	2.80	1.4450	1.16	
6	Sub-17	1.15	0.00	77.00	33.0000	544.84	0.0150	0.1000	2.80	1.4450	1.16	
7	Sub-24	3.25	0.00	77.00	33.0000	743.73	0.0150	0.1000	2.80	1.4450	1.15	
8	Sub-25	4.82	0.00	77.00	33.0000	1676.82	0.0150	0.1000	2.80	1.4450	1.16	
9	Sub-26	1.03	0.00	77.00	33.0000	586.58	0.0150	0.1000	2.80	1.4450	1.17	
10	Sub-29	3.88	0.00	77.00	33.0000	322.40	0.0150	0.1000	2.80	1.4450	1.14	
11	Sub-30	4.47	0.00	77.00	33.0000	1285.14	0.0150	0.1000	2.80	1.4450	1.16	
12	Sub-31	6.45	0.00	77.00	33.0000	650.17	0.0150	0.1000	2.80	1.4450	1.14	
13	Sub-32	3.03	0.00	77.00	33.0000	841.12	0.0150	0.1000	2.80	1.4450	1.16	
14	Sub-34	0.88	0.00	77.00	33.0000	445.24	0.0150	0.1000	2.80	1.4450	1.16	
15	Sub-35	2.34	0.00	77.00	33.0000	947.35	0.0150	0.1000	2.80	1.4450	1.16	
16	Sub-36	4.27	0.00	77.00	33.0000	1375.06	0.0150	0.1000	2.80	1.4450	1.16	
17	Sub-37	1.88	0.00	77.00	33.0000	465.90	0.0150	0.1000	2.80	1.4450	1.15	
18	Sub-38	2.99	0.00	77.00	33.0000	435.19	0.0150	0.1000	2.80	1.4450	1.15	
19	Sub-39	3.29	0.00	77.00	33.0000	844.65	0.0150	0.1000	2.80	1.4450	1.15	
20	Sub-40	1.46	0.00	77.00	33.0000	603.73	0.0150	0.1000	2.80	1.4450	1.16	
21	Sub-41	3.68	0.00	77.00	33.0000	1204.50	0.0150	0.1000	2.80	1.4450	1.16	
22	Sub-42	1.40	0.00	77.00	33.0000	574.97	0.0150	0.1000	2.80	1.4450	1.16	
23	Sub-43	2.01	0.00	77.00	33.0000	352.97	0.0150	0.1000	2.80	1.4450	1.15	
24	Sub-44	2.75	0.00	77.00	33.0000	715.11	0.0150	0.1000	2.80	1.4450	1.16	
25	Sub-45	2.15	0.00	77.00	33.0000	722.99	0.0150	0.1000	2.80	1.4450	1.16	
26	Sub-46	2.48	0.00	77.00	33.0000	718.50	0.0150	0.1000	2.80	1.4450	1.16	
27	Sub-47	1.17	0.00	77.00	33.0000	508.56	0.0150	0.1000	2.80	1.4450	1.16	
28	Sub-48	1.85	0.00	77.00	33.0000	929.55	0.0150	0.1000	2.80	1.4450	1.16	
29	Sub-49	1.21	0.00	77.00	33.0000	409.30	0.0150	0.1000	2.80	1.4450	1.16	
30	Sub-50	1.01	0.00	77.00	33.0000	565.05	0.0150	0.1000	2.80	1.4450	1.16	
31	Sub-51	1.75	0.00	77.00	33.0000	542.60	0.0150	0.1000	2.80	1.4450	1.16	
32	Sub-52	1.02	0.00	77.00	33.0000	309.49	0.0150	0.1000	2.80	1.4450	1.16	
33	Sub-53	1.41	0.00	77.00	33.0000	565.51	0.0150	0.1000	2.80	1.4450	1.16	
34	Sub-54	4.01	0.00	77.00	8.5000	884.59	0.0150	0.1000	2.80	1.4450	1.14	
35	Sub-56	4.13	0.00	77.00	7.0000	1300.00	0.0150	0.1000	2.80	1.4450	1.15	
36	Sub-57	1.74	0.00	77.00	33.0000	696.55	0.0150	0.1000	2.80	1.4450	1.16	
37	Sub-58	3.81	0.00	77.00	33.0000	1001.03	0.0150	0.1000	2.80	1.4450	1.16	
38	Sub-59	3.73	0.00	77.00	33.0000	582.48	0.0150	0.1000	2.80	1.4450	1.15	
39	Sub-60	3.33	0.00	77.00	33.0000	575.55	0.0150	0.1000	2.80	1.4450	1.15	
40	Sub-61	1.09	0.00	77.00	2.0000	1275.41	0.0150	0.1000	2.80	1.4450	1.16	
41	Sub-62	3.89	0.00	77.00	2.0000	1257.29	0.0150	0.1000	2.80	1.4450	1.14	
42	Sub-63	2.97	0.00	77.00	2.0000	1899.01	0.0150	0.1000	2.80	1.4450	1.15	
43	Sub-64	22.90	25.00	77.00	2.0000	2261.10	0.0150	0.1000	2.80	1.0840	1.52	
44	Sub-65	3.95	0.00	77.00	2.0000	1717.68	0.0150	0.1000	2.80	1.4450	1.14	

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft²)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	M Freeboa Attaine (f
1	1-Jun	Junction	1295.00	0.00	0.00	0.00	0.00	8.81	1295.17	0.00	1.8
2	2-Jun	Junction	1321.00	0.00	0.00	0.00	0.00	2.71	1321.72	0.00	0.7
3	5-Jun	Junction	1270.00	0.00	0.00	0.00	0.00	1.88	1270.67	0.00	0.8
4	6-Jun	Junction	1300.00	0.00	0.00	0.00	0.00	4.51	1301.39	0.00	0.1
5	7-Jun	Junction	1196.00	1300.00	0.00	1300.00	0.00	4.71	1201.56	0.00	98.4
6	8-Jun	Junction	1254.00	0.00	0.00	0.00	0.00	1.73	1255.03	0.00	0.4
7	9-Jun	Junction	1162.00	0.00	0.00	0.00	0.00	2.07	1162.97	0.00	0.5
8	10-Jun	Junction	1146.00	0.00	0.00	0.00	0.00	21.79	1146.33	0.00	1.6
9	11-Jun	Junction	1336.00	1400.00	0.00	1400.00	0.00	4.93	1359.91	0.00	40.0
10	14-Jun	Junction	1247.30	0.00	0.00	0.00	0.00	20.80	1247.58	0.00	1.7
11	15-Jun	Junction	1192.00	0.00	0.00	0.00	0.00	28.54	1192.35	0.00	1.6
12	16-Jun	Junction	1140.00	1300.00	0.00	1300.00	0.00	53.56	1143.35	0.00	156.6
13	17-Jun	Junction	1202.00	0.00	0.00	0.00	0.00	15.04	1203.30	0.00	0.2
14	18-Jun	Junction	1362.00	0.00	0.00	0.00	0.00	2.00	1362.88	0.00	0.6
15	20-Jun	Junction	1243.00	0.00	0.00	0.00	0.00	2.71	1244.15	0.00	0.3
16	25-Jun	Junction	1322.30	0.00	0.00	0.00	0.00	8.97	1322.47	0.00	1.8
17	26-Jun	Junction	1295.50	0.00	0.00	0.00	0.00	1.44	1295.56	0.00	1.9
18	27-Jun	Junction	1284.00	0.00	0.00	0.00	0.00	7.37	1284.98	0.00	0.5
19	28-Jun	Junction	1283.00	0.00	0.00	0.00	0.00	12.66	1283.20	0.00	2.3
20	29-Jun	Junction	1280.00	0.00	0.00	0.00	0.00	11.26	1280.19	0.00	1.8
21	30-Jun	Junction	1245.00	0.00	0.00	0.00	0.00	12.40	1245.21	0.00	1.7
22	Jun-31	Junction	1248.00	0.00	0.00	0.00	0.00	10.66	1248.20	0.00	1.8
23	Jun-32	Junction	1204.00	1205.50	0.00	0.00	0.00	14.97	1204.25	0.00	1.7
24	Jun-33	Junction	1152.00	0.00	0.00	0.00	0.00	46.80	1154.22	0.00	0.7
25	Jun-34	Junction	1121.90	0.00	0.00	0.00	0.00	75.12	1124.67	0.00	0.2
26	Jun-35	Junction	1199.50	0.00	0.00	0.00	0.00	17.48	1200.49	0.00	2.0
27	Jun-36	Junction	1211.00	0.00	0.00	0.00	0.00	7.31	1211.83	0.00	1.1
28	Jun-37	Junction	1210.00	0.00	0.00	0.00	0.00	6.03	1211.83	0.00	0.6
29	Jun-38	Junction	1173.00	0.00	0.00	0.00	0.00	20.12	1173.30	0.00	1.7
30	Jun-39	Junction	1229.00	0.00	0.00	0.00	0.00	14.09	1229.23	0.00	1.7
31	Jun-40	Junction	1112.00	0.00	0.00	0.00	0.00	122.56	1114.09	0.00	3.7
32	Jun-41	Junction	1238.00	0.00	0.00	0.00	0.00	6.35	1239.28	0.00	0.2
33	Jun-42	Junction	1334.00	6.00	0.00	0.00	0.00	13.53	1335.07	0.00	0.9
34	Jun-43	Junction	1175.00	0.00	0.00	0.00	0.00	39.45	1176.46	0.00	1.5
35	Jun-44	Junction	1192.00	0.00	0.00	0.00	0.00	15.28	1193.12	0.00	0.3
36	Jun-45	Junction	1246.00	0.00	0.00	0.00	0.00	6.77	1246.91	0.00	2.0
37	Jun-46	Junction	1295.00	0.00	0.00	0.00	0.00	3.91	1296.09	0.00	0.4
38	Jun-47	Junction	1318.00	0.00	0.00	0.00	0.00	1.95	1318.83	0.00	0.6
39	Jun-48	Junction	1208.00	0.00	0.00	0.00	0.00	10.57	1214.11	0.00	4.8
40	Jun-49	Junction	1230.00	0.00	0.00	0.00	0.00	5.85	1230.80	0.00	0.7
41	Jun-51	Junction	1307.00	0.00	0.00	0.00	0.00	8.39	1308.26	0.00	0.2
42	Jun-56	Junction	1250.00	0.00	0.00	0.00	0.00	4.53	1250.51	0.00	2.4
43	Jun-58	Junction	1230.00	0.00	0.00	0.00	0.00	10.46	1231.36	0.00	0.6
44	Jun-59	Junction	1229.00	0.00	0.00	0.00	0.00	10.33	1229.19	0.00	1.8

Node Summary

SN	Element ID	Element Type	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Initial Water Elevation (ft)	Surcharge Elevation (ft)	Ponded Area (ft^2)	Peak Inflow (cfs)	Max HGL Elevation Attained (ft)	Max Surcharge Depth Attained (ft)	M Freeboa Attaine (f
71	Stor-01	Storage Node	1078.00	1088.00	1078.00		0.00	141.22	1088.00		

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)	
1	Link-111	Pipe	Jun-89	Jun-78	189.94	1142.00	1141.00	0.5300	36.000	0.0240	17.07	66.75	0.26	1.26	2.26	0.77
2	Link-21	Pipe	27-Jun	28-Jun	43.15	1284.00	1283.00	2.3200	18.000	0.0240	7.44	17.32	0.43	5.85	0.59	0.39
3	Link-29	Pipe	Jun-36	Jun-37	12.00	1211.00	1210.00	8.3300	24.000	0.0240	6.03	70.75	0.09	1.36	1.33	0.67
4	Link-55	Pipe	Jun-40	Stor-01	120.00	1112.00	1078.00	28.3300	70.000	0.0240	120.91	2265.41	0.05	4.95	3.85	0.67
5	Link-75	Pipe	Jun-58	Jun-59	12.51	1230.00	1229.00	7.9900	18.000	0.0240	10.33	32.17	0.32	6.37	0.76	0.52
6	Link-06	Channel	9-Jun	10-Jun	757.15	1162.00	1146.00	2.1100	18.000	0.0700	1.81	16.60	0.11	1.43	0.64	0.43
7	Link-08	Channel	5-Jun	Jun-60	466.43	1270.00	1262.50	1.6100	18.000	0.0700	1.69	14.48	0.12	0.58	1.07	0.72
8	Link-09	Channel	7-Jun	15-Jun	238.74	1196.00	1192.00	1.6800	18.000	0.0700	4.78	14.78	0.32	2.02	0.91	0.62
9	Link-10	Channel	1-Jun	14-Jun	149.52	1295.00	1247.30	31.9000	24.000	0.0320	8.56	637.06	0.01	6.63	0.21	0.11
10	Link-100	Channel	Jun-79	Jun-43	1279.81	1279.00	1175.00	8.1300	18.000	0.0700	13.60	32.56	0.42	3.65	1.24	0.83
11	Link-101	Channel	Jun-80	Jun-48	769.45	1214.00	1208.00	0.7800	36.000	0.0700	4.48	70.52	0.06	1.10	1.70	0.57
12	Link-102	Channel	Jun-80	Jun-81	656.75	1214.00	1178.70	5.3700	36.000	0.0700	11.76	185.15	0.06	3.29	0.81	0.27
13	Link-103	Channel	Jun-81	Jun-82	384.83	1178.70	1166.00	3.3000	36.000	0.0700	11.17	145.08	0.08	2.03	1.15	0.39
14	Link-104	Channel	Jun-82	Jun-83	887.77	1166.00	1145.00	2.3700	36.000	0.0700	14.27	122.83	0.12	2.78	1.02	0.34
15	Link-108	Channel	Jun-83	Jun-89	725.08	1145.00	1142.00	0.4100	36.000	0.0070	17.80	513.70	0.03	4.74	1.16	0.40
16	Link-109	Channel	Jun-87	Jun-88	2344.70	1111.00	1088.00	0.9800	36.000	0.0320	30.09	173.03	0.17	5.32	1.07	0.36
17	Link-11	Channel	14-Jun	15-Jun	159.03	1247.30	1192.00	34.7700	24.000	0.0320	20.02	665.11	0.03	9.55	0.30	0.16
18	Link-110	Channel	Jun-88	Stor-01	120.69	1088.00	1078.00	8.2900	36.000	0.0320	29.28	502.87	0.06	5.42	1.82	0.62
19	Link-12	Channel	15-Jun	16-Jun	167.74	1192.00	1132.00	35.7700	24.000	0.0320	28.38	627.99	0.05	2.89	1.17	0.59
20	Link-13	Channel	18-Jun	Jun-47	543.93	1362.00	1318.00	8.0900	18.000	0.0700	1.95	8.90	0.22	31.66	0.83	0.56
21	Link-14	Channel	17-Jun	Jun-44	247.02	1202.00	1192.00	4.0500	18.000	0.0700	13.52	22.98	0.59	3.09	1.20	0.81
22	Link-24	Channel	6-Jun	29-Jun	975.66	1300.00	1280.00	2.0500	18.000	0.0700	2.95	16.35	0.18	14.20	0.77	0.52
23	Link-27	Channel	8-Jun	30-Jun	434.74	1254.00	1245.00	2.0700	18.000	0.0700	1.59	16.43	0.10	1.39	0.59	0.41
24	Link-30	Channel	Jun-37	Jun-32	200.68	1211.00	1204.00	3.4900	18.000	0.0320	6.01	46.66	0.13	7.18	0.53	0.35
25	Link-34	Channel	20-Jun	Jun-39	716.30	1243.00	1229.00	1.9500	18.000	0.0700	2.06	15.97	0.13	1.44	0.67	0.46
26	Link-35	Channel	16-Jun	Jun-65	3.38	1142.00	1142.00	0.0000	72.000	0.0700	53.26	112.87	0.47	3.87	1.12	0.19
27	Link-36	Channel	Jun-34	Jun-40	487.30	1121.90	1112.00	2.0300	36.000	0.0700	73.03	113.83	0.64	3.87	2.41	0.80
28	Link-38	Channel	Jun-35	Jun-73	5.92	1199.50	1199.00	8.4500	36.000	0.0700	15.75	232.09	0.07	2.56	1.18	0.40

Link Summary

SN	Element ID	Element Type	From (Inlet) Node	To (Outlet) Node	Length	Inlet Invert Elevation	Outlet Invert Elevation	Average Slope	Diameter or Height	Manning's Roughness	Peak Flow	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio
					(ft)	(ft)	(ft)	(%)	(in)		(cfs)	(cfs)		(ft/sec)	(ft)	
45	Link-58	Channel	Jun-46	Jun-77	398.23	1295.00	1262.00	8.2900	18.000	0.0700	3.86	9.01	0.43	2.74	1.19	0.79
46	Link-59	Channel	Jun-47	Jun-46	290.45	1318.00	1295.00	7.9200	18.000	0.0700	1.84	8.81	0.21	1.99	0.96	0.64
47	Link-60	Channel	Jun-48	Jun-35	512.49	1216.00	1199.50	3.2200	36.000	0.0700	0.00	143.30	0.00	0.00	0.49	0.17
48	Link-61	Channel	Jun-49	Jun-48	324.08	1230.00	1208.00	6.7900	18.000	0.0700	5.61	29.76	0.19	1.41	1.15	0.77
49	Link-62	Channel	11-Jun	25-Jun	680.56	1336.00	1322.30	2.0100	18.000	0.0700	8.97	16.20	0.55	10.95	0.82	0.55
50	Link-65	Channel	2-Jun	Jun-51	680.29	1321.00	1307.00	2.0600	18.000	0.0700	2.35	16.38	0.14	0.87	0.98	0.66
51	Link-72	Channel	Jun-56	Jun-45	191.97	1250.00	1246.00	2.0800	36.000	0.0700	3.34	115.28	0.03	1.11	0.71	0.24
52	Link-74	Channel	Stor-01	Out-01	134.53	1090.00	1088.00	1.4900	12.000	0.0320	0.00	90.09	0.00	0.00	0.00	0.00
53	Link-76	Channel	Jun-59	Jun-32	77.54	1229.00	1204.00	32.2400	24.000	0.0320	10.33	640.44	0.02	7.36	0.22	0.11
54	Link-78	Channel	Jun-60	14-Jun	763.97	1262.50	1247.30	1.9900	18.000	0.0700	9.64	16.11	0.60	4.16	0.85	0.59
55	Link-80	Channel	Jun-51	Jun-74	237.13	1307.00	1303.00	1.6900	18.000	0.0700	7.89	14.83	0.53	1.89	1.16	0.79
56	Link-81	Channel	Jun-62	Jun-76	268.91	1295.00	1292.00	1.1200	18.000	0.0700	6.07	12.06	0.50	1.61	1.11	0.75
57	Link-82	Channel	Jun-63	Jun-39	812.29	1247.00	1229.00	2.2200	18.000	0.0700	0.00	17.00	0.00	0.00	0.11	0.08
58	Link-83	Channel	Jun-64	Jun-38	972.89	1192.00	1173.00	1.9500	18.000	0.0700	0.00	15.96	0.00	0.00	0.15	0.10
59	Link-84	Channel	Jun-65	Jun-34	1010.86	1140.00	1121.90	1.7900	36.000	0.0700	54.21	106.86	0.51	2.80	2.47	0.83
60	Link-85	Channel	Jun-66	27-Jun	562.26	1295.00	1284.00	1.9600	18.000	0.0700	7.37	15.97	0.46	10.18	1.11	0.75
61	Link-87	Channel	Jun-68	Jun-38	1176.91	1204.00	1173.00	2.6300	18.000	0.0700	7.17	18.53	0.39	11.72	0.76	0.51
62	Link-88	Channel	Jun-69	Jun-40	1092.42	1152.00	1112.00	3.6600	36.000	0.0700	49.56	152.82	0.32	3.91	1.92	0.64
63	Link-90	Channel	Jun-33	Jun-69	8.66	1152.00	1152.00	0.0000	36.000	0.0700	45.57	8.58	5.31	3.28	2.00	0.67
64	Link-91	Channel	Jun-70	26-Jun	1337.73	1322.00	1295.50	1.9800	18.000	0.0700	1.44	16.07	0.09	1.29	0.61	0.41
65	Link-92	Channel	Jun-71	Jun-31	1543.29	1280.00	1248.00	2.0700	18.000	0.0700	9.36	16.44	0.57	18.83	0.80	0.57
66	Link-93	Channel	Jun-72	Jun-36	1643.03	1245.00	1211.00	2.0700	18.000	0.0700	7.31	16.43	0.44	16.49	1.10	0.74
67	Link-94	Channel	Jun-73	Jun-43	1492.47	1199.00	1175.00	1.6100	36.000	0.0700	19.53	101.27	0.19	2.45	1.39	0.47
68	Link-95	Channel	Jun-74	Jun-75	179.98	1303.00	1299.00	2.2200	18.000	0.0700	7.75	17.03	0.45	1.81	1.27	0.85
69	Link-96	Channel	Jun-75	1-Jun	219.85	1299.00	1295.00	1.8200	18.000	0.0700	8.81	15.40	0.57	4.24	0.82	0.56
70	Link-97	Channel	Jun-76	28-Jun	584.45	1291.00	1284.00	1.2000	18.000	0.0700	5.69	12.50	0.46	3.03	1.10	0.73
71	Link-98	Channel	Jun-77	17-Jun	738.08	1262.00	1202.00	8.1300	18.000	0.0700	5.73	8.92	0.64	3.62	1.25	0.85
72	Link-99	Channel	Jun-78	16-Jun	224.19	1141.00	1140.00	0.4500	36.000	0.0700	30.77	53.34	0.58	1.23	2.85	0.96

Subbasin Hydrology

Subbasin : Sub-06

Input Data

Area (ac)	1.3
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	541.33
Impervious Area	
Manning's Roughness	0.25
Pervious Area	
Manning's Roughness	0.25
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

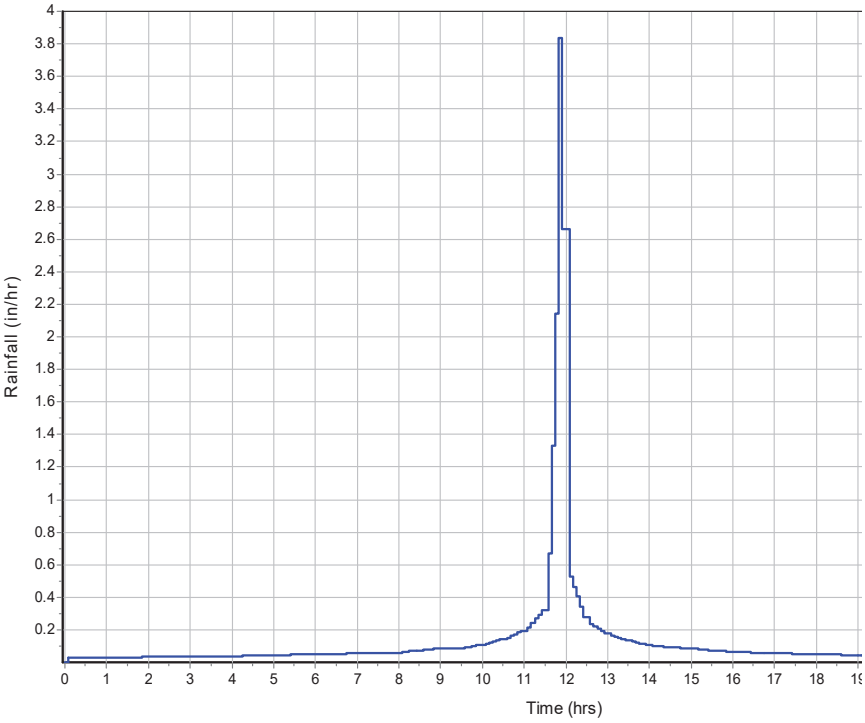
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	1.3	B	77
Composite Area & Weighted CN	1.3		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	2.07
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:21:55

Subbasin : Sub-06

Rainfall Intensity Graph



Runoff Hydrograph

Subbasin : Sub-08

Input Data

Area (ac)	11.23
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	7
Equivalent Width (ft)	1346.04
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

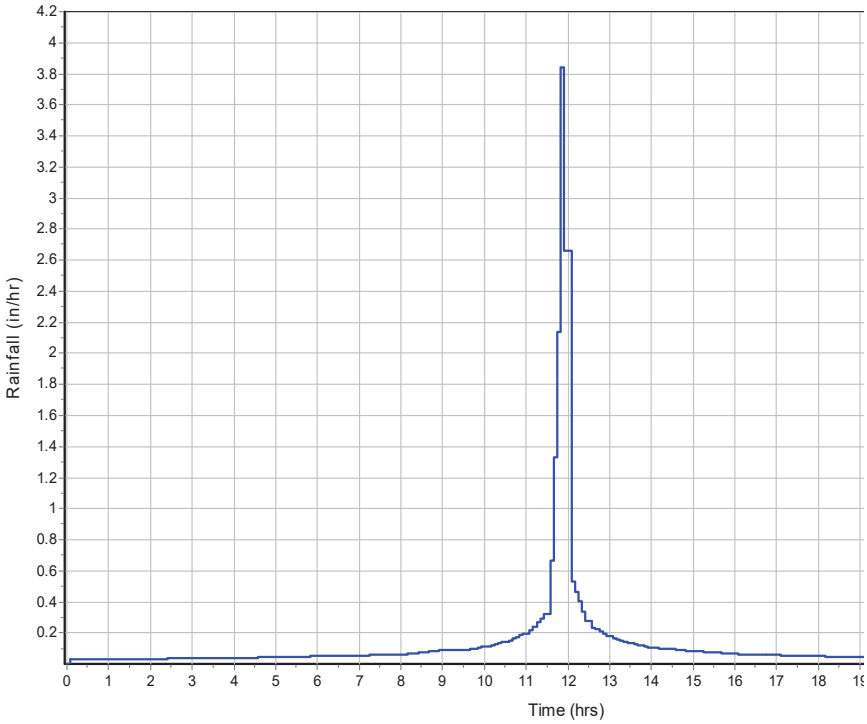
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	11.23	B	77
Composite Area & Weighted CN	11.23		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.13
Peak Runoff (cfs)	13.53
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:42:34

Subbasin : Sub-08

Rainfall Intensity Graph



Runoff Hydrograph

Subbasin : Sub-09

Input Data

Area (ac)	2.85
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	645.27
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

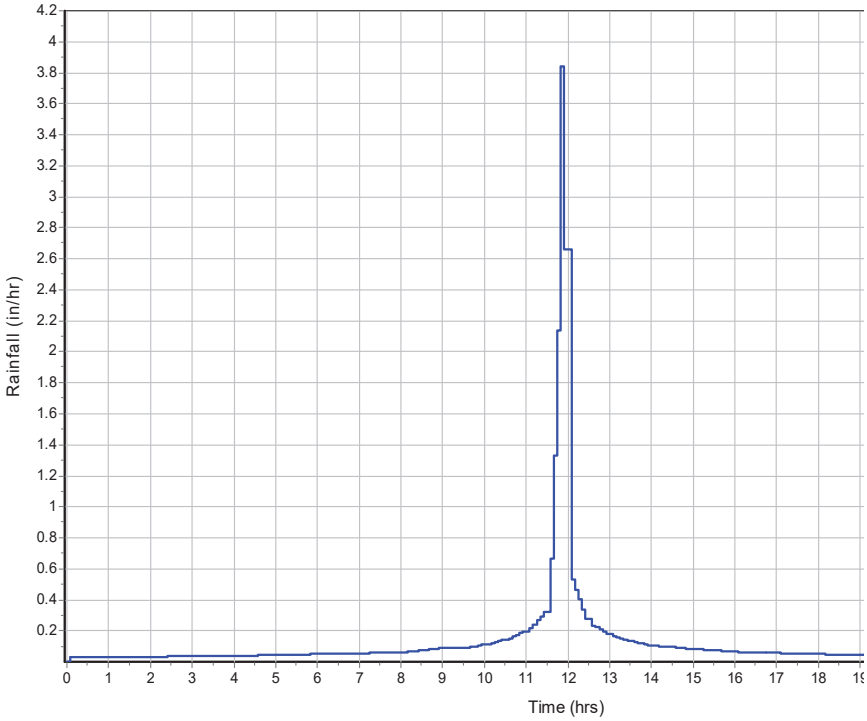
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	2.85	B	77
Composite Area & Weighted CN	2.85		77

Subbasin Runoff Results

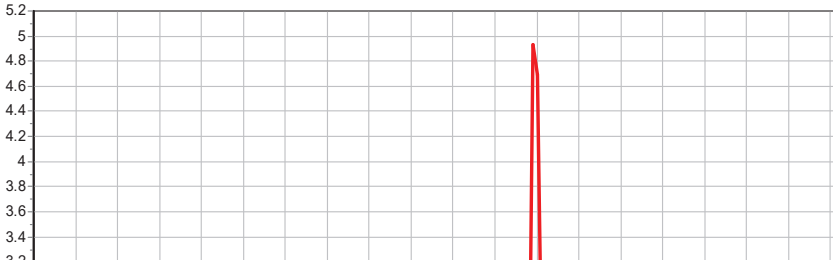
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	4.93
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:18:15

Subbasin : Sub-09

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Sub-11

Input Data

Area (ac)	3.78
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	708.77
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

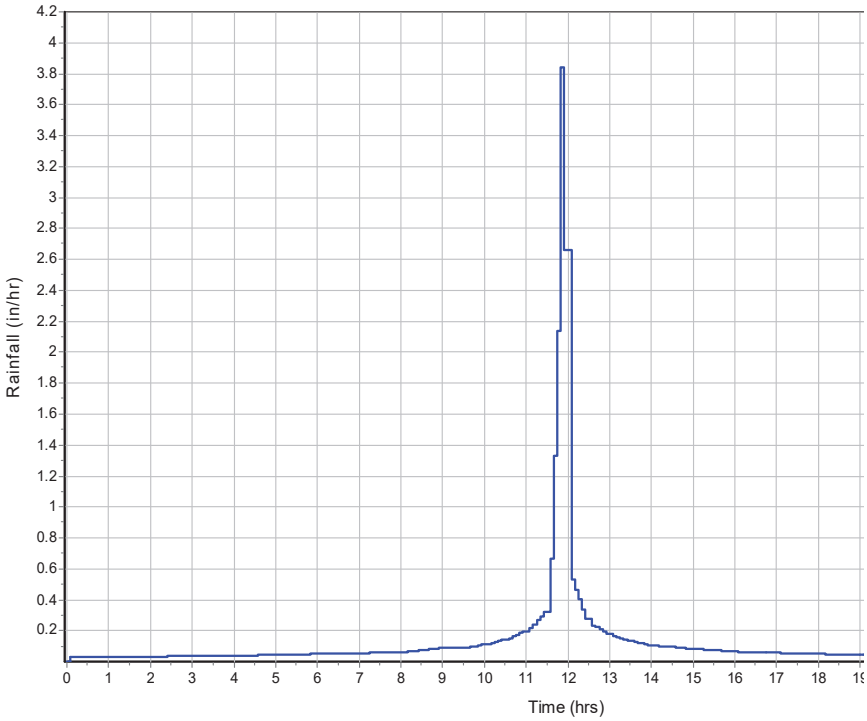
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	3.78	B	77
Composite Area & Weighted CN	3.78		77

Subbasin Runoff Results

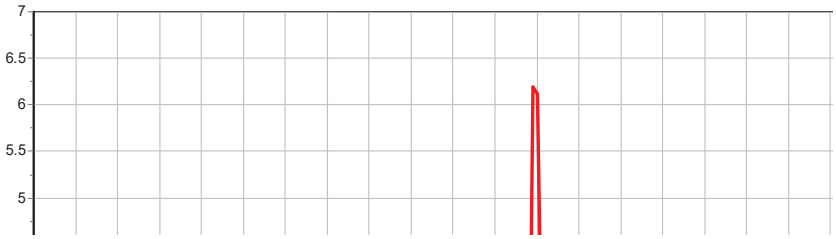
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	6.19
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:20:26

Subbasin : Sub-11

Rainfall Intensity Graph



Runoff Hydrograph



Subbasin : Sub-12

Input Data

Area (ac)	1.02
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	658.22
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

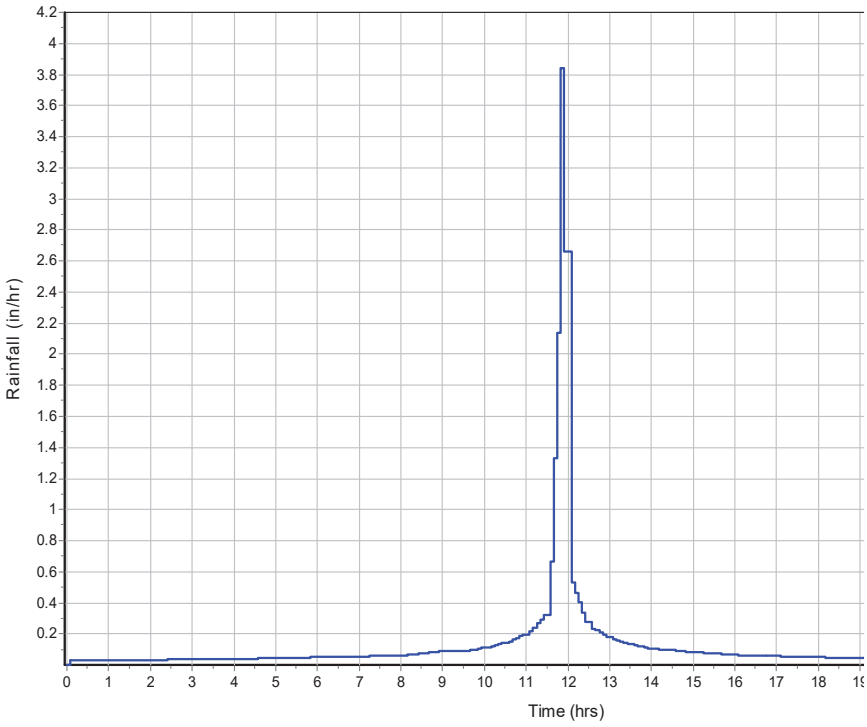
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	1.02	B	77
Composite Area & Weighted CN	1.02		77

Subbasin Runoff Results

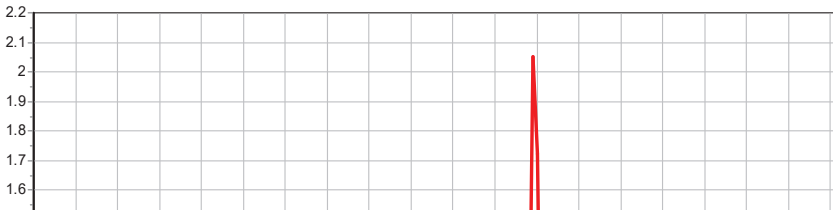
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.05
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:09:44

Subbasin : Sub-12

Rainfall Intensity Graph



Runoff Hydrograph



Input Data

Area (ac)	1.15
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	544.84
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

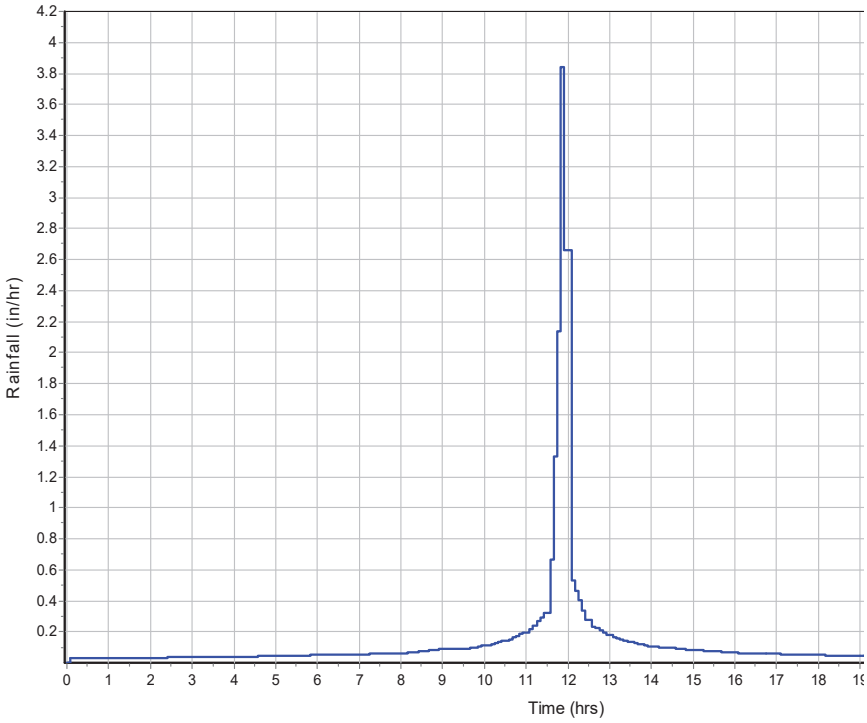
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	1.15	B	77
Composite Area & Weighted CN	1.15		77

Subbasin Runoff Results

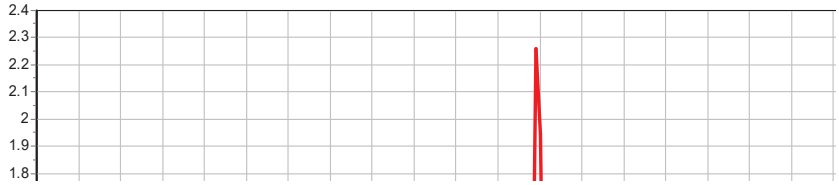
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.26
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:11:43

Subbasin : Sub-17

Rainfall Intensity Graph



Runoff Hydrograph



Time (hrs)

Input Data

Area (ac)	3.25
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	743.73
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

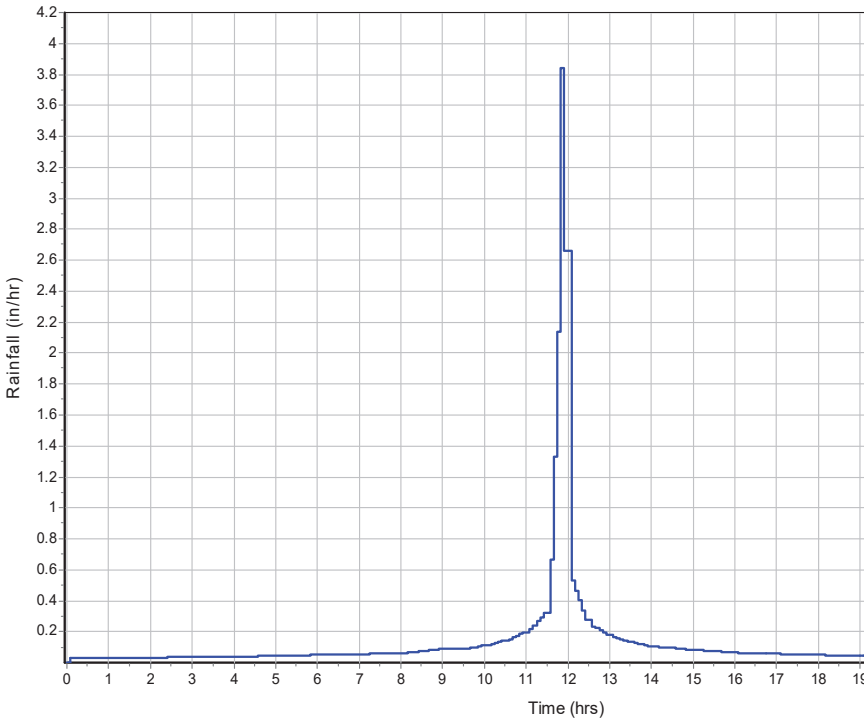
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	3.25	B	77
Composite Area & Weighted CN	3.25		77

Subbasin Runoff Results

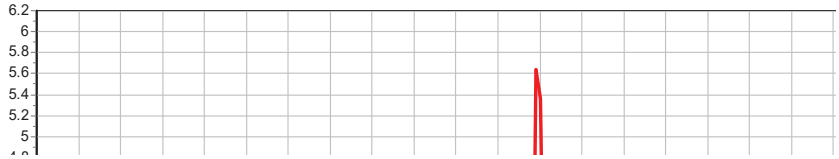
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	5.64
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:18:09

Subbasin : Sub-24

Rainfall Intensity Graph



Runoff Hydrograph



Area (ac)	4.82
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	1676.82
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

32

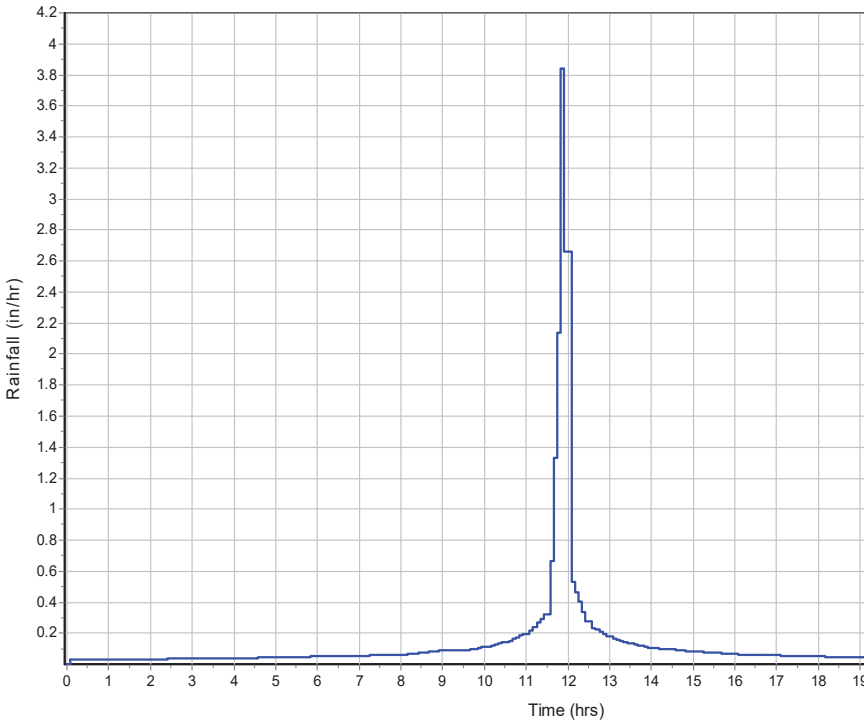
Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	4.82	B	77
Composite Area & Weighted CN	4.82		77

Subbasin Runoff Results

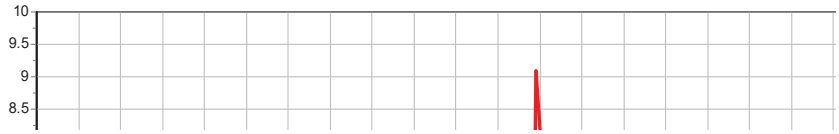
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	9.09
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:14:06

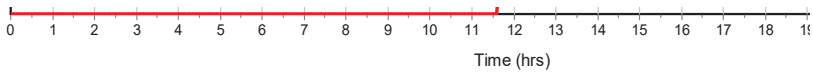
Subbasin : Sub-25

Rainfall Intensity Graph



Runoff Hydrograph





Area (ac)	1.03
Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	586.58
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

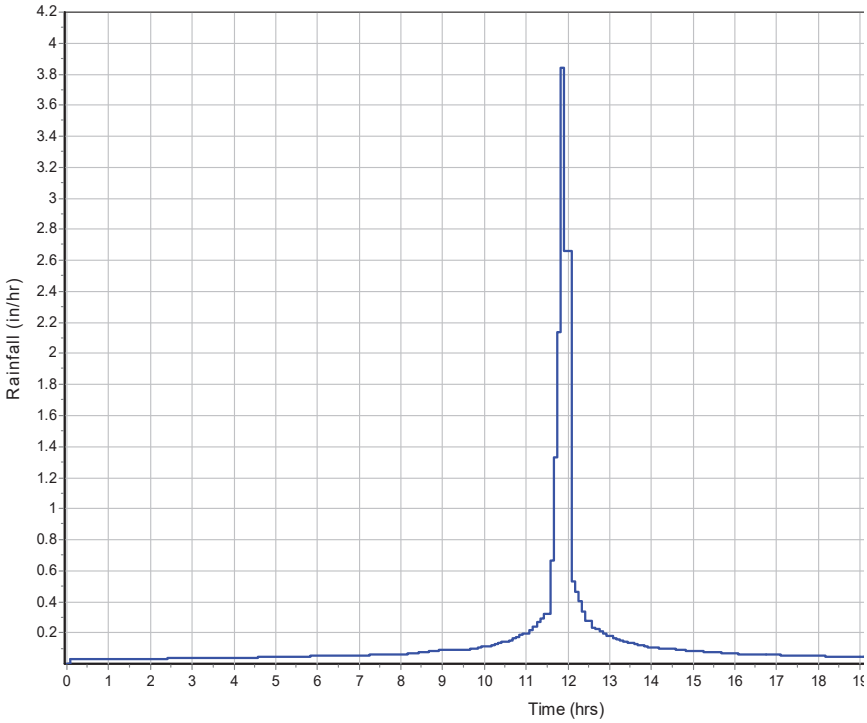
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	1.03	B	77
Composite Area & Weighted CN	1.03		77

Subbasin Runoff Results

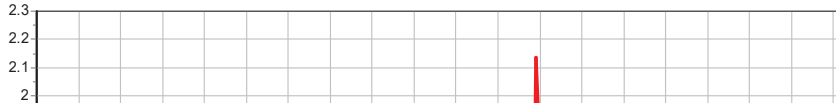
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.17
Peak Runoff (cfs)	2.14
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:10:28

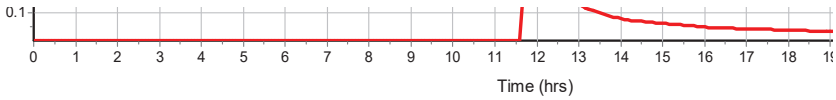
Subbasin : Sub-26

Rainfall Intensity Graph



Runoff Hydrograph





Impervious Area (%)	0
Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	322.4
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

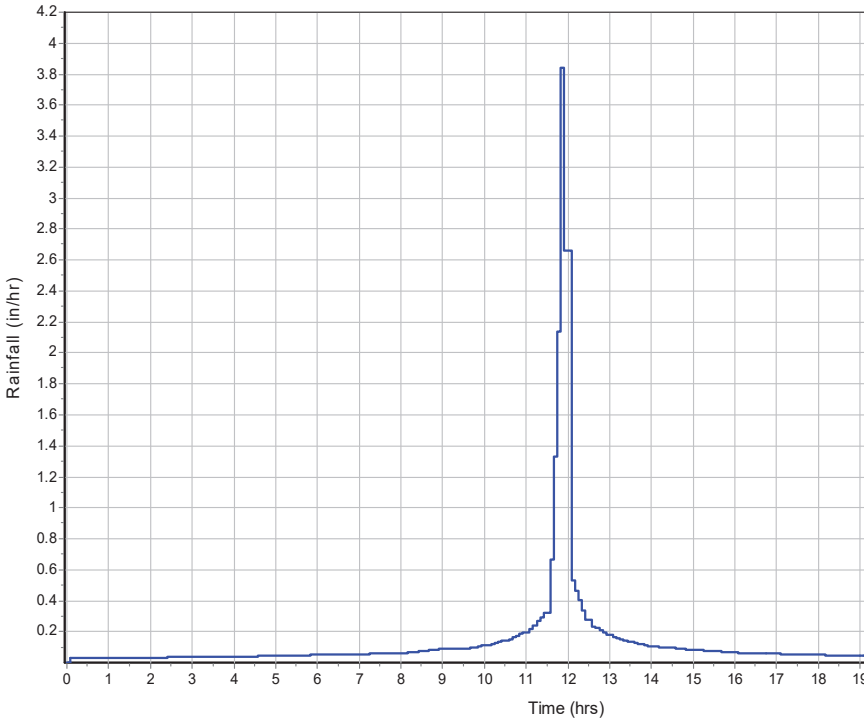
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	3.88	B	77
Composite Area & Weighted CN	3.88		77

Subbasin Runoff Results

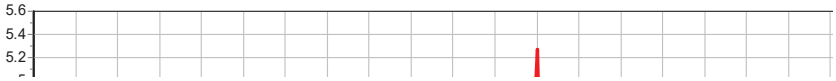
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.14
Peak Runoff (cfs)	5.43
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:33:18

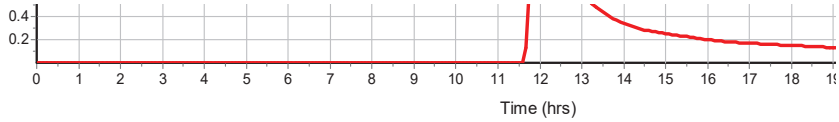
Subbasin : Sub-29

Rainfall Intensity Graph



Runoff Hydrograph





Weighted Curve Number	77
Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	1285.14
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

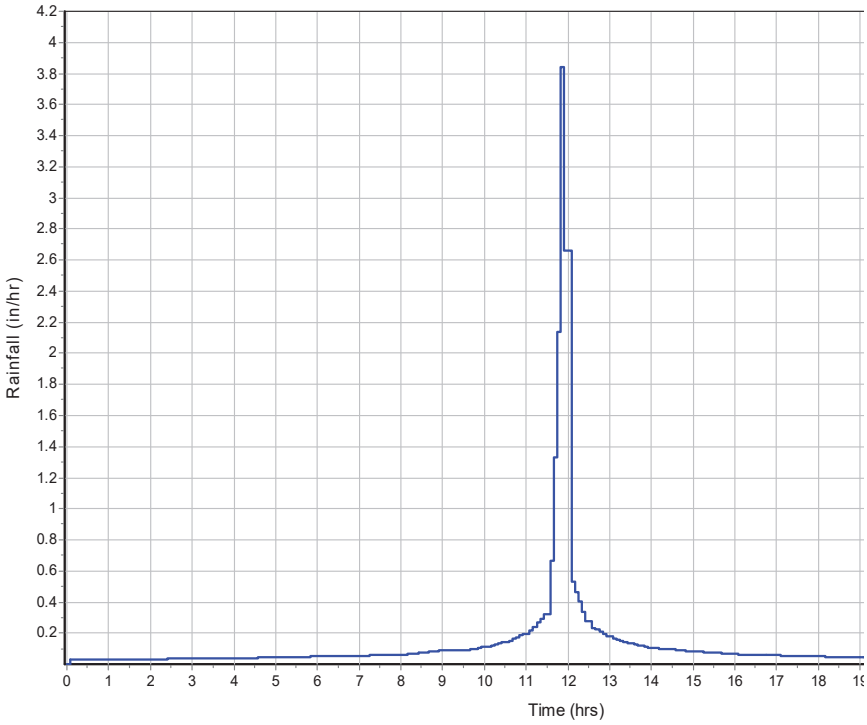
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	4.47	B	77
Composite Area & Weighted CN	4.47		77

Subbasin Runoff Results

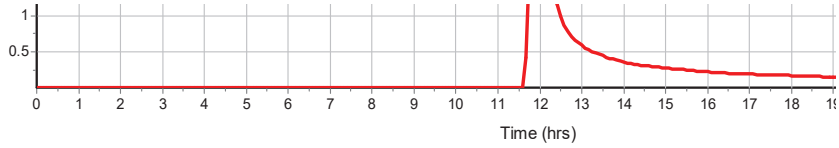
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	8.16
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:15:49

Subbasin : Sub-30

Rainfall Intensity Graph



Runoff Hydrograph



Conductivity (in/hr)	0.15
Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	650.17
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

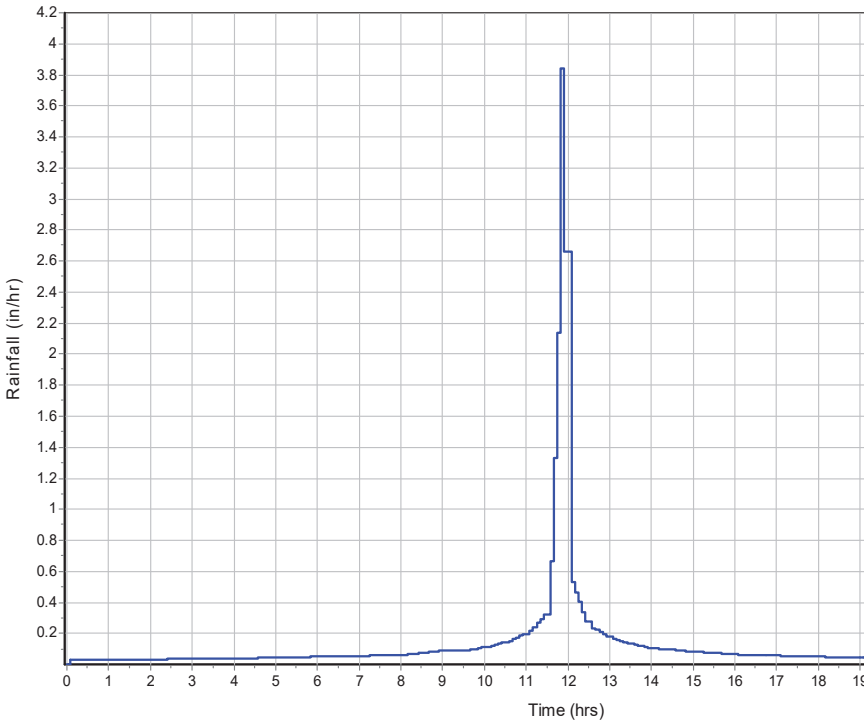
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	6.45	B	77
Composite Area & Weighted CN	6.45		77

Subbasin Runoff Results

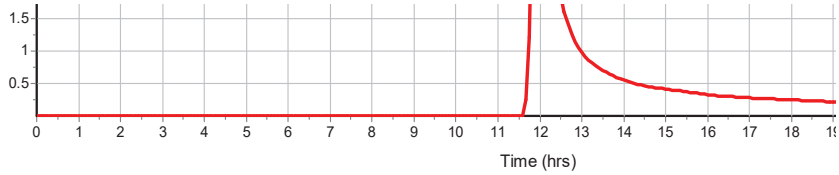
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.14
Peak Runoff (cfs)	9.5
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:29:39

Subbasin : Sub-31

Rainfall Intensity Graph



Runoff Hydrograph



Drying Time (days)	7
Average Slope (%)	33
Equivalent Width (ft)	841.12
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

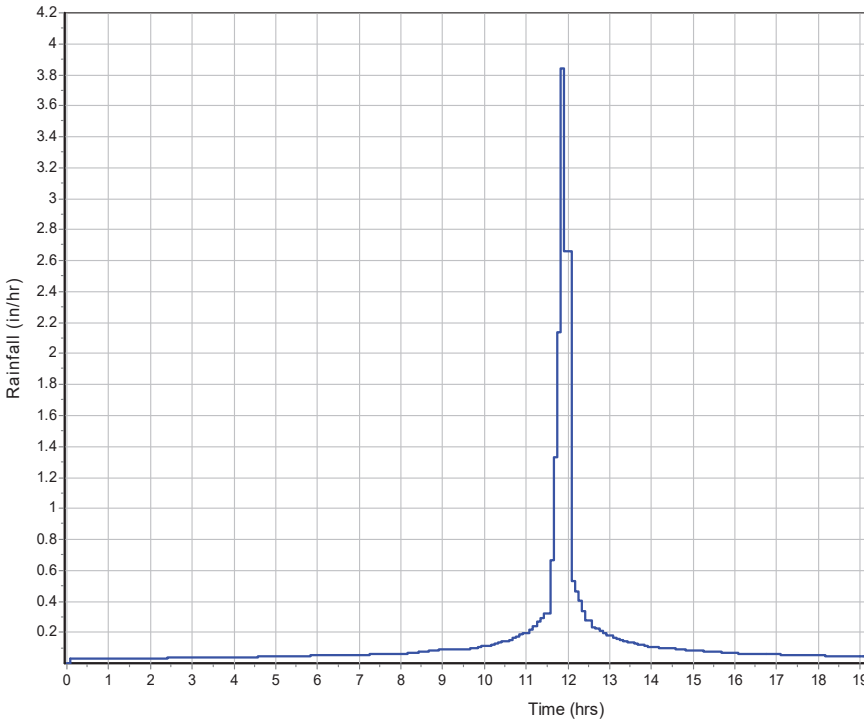
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	3.03	B	77
Composite Area & Weighted CN	3.03		77

Subbasin Runoff Results

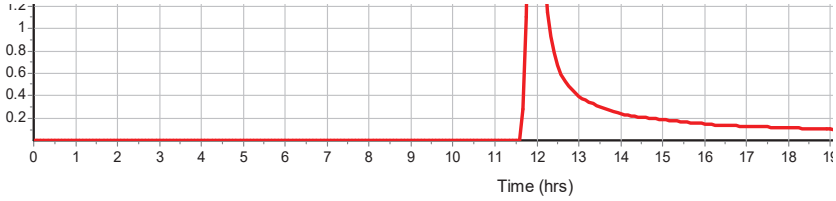
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	5.49
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:16:08

Subbasin : Sub-32

Rainfall Intensity Graph



Runoff Hydrograph



Average Slope (%)	33
Equivalent Width (ft)	445.24
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

Composite Curve Number

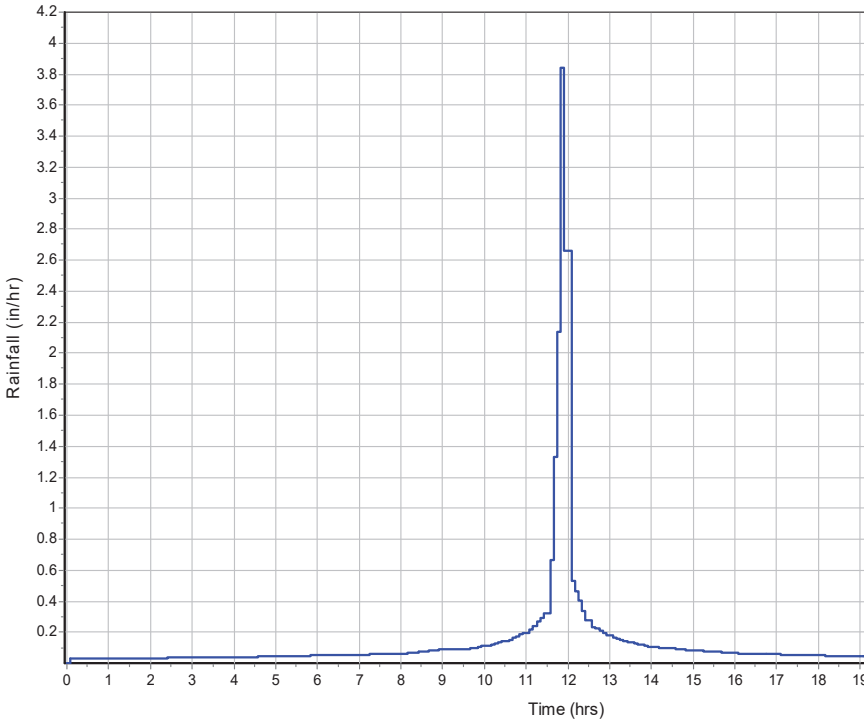
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	0.88	B	77
Composite Area & Weighted CN	0.88		77

Subbasin Runoff Results

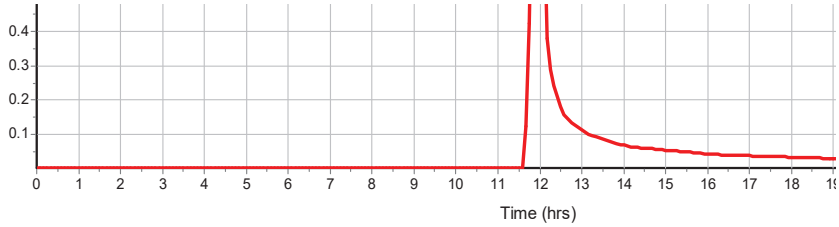
Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	1.73
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:11:15

Subbasin : Sub-34

Rainfall Intensity Graph



Runoff Hydrograph



Equivalent Width (ft)	947.35
Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

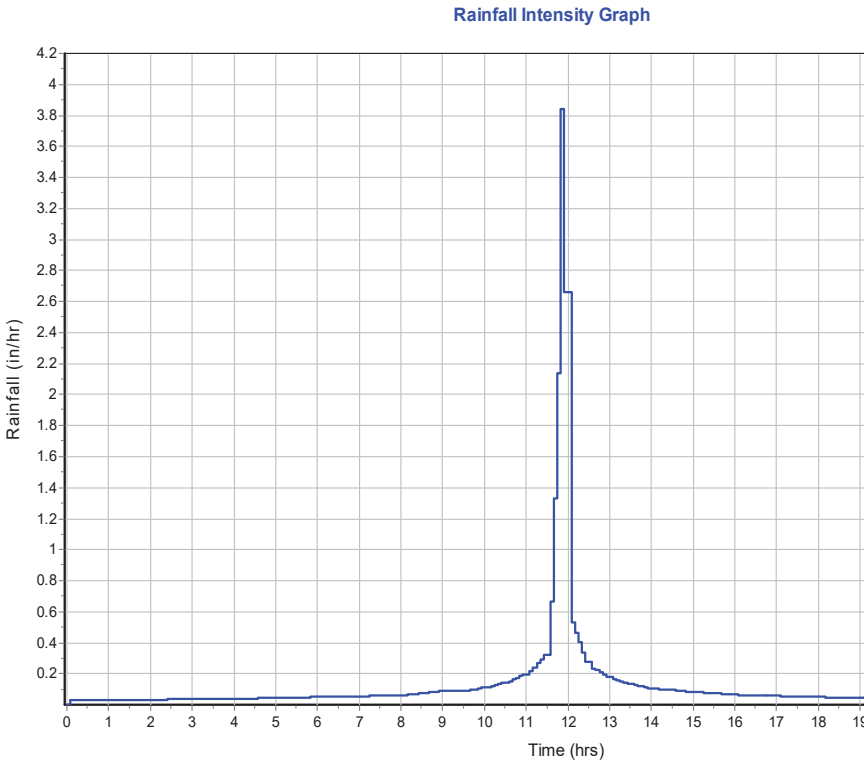
Composite Curve Number

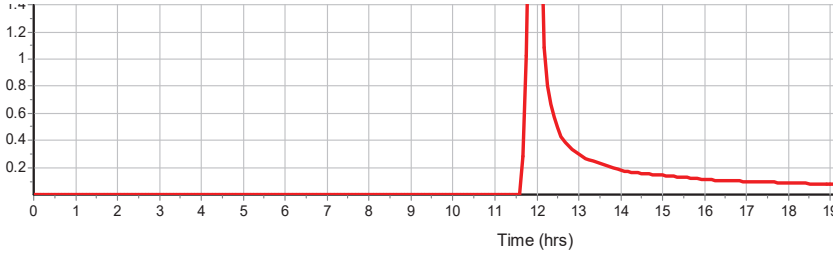
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	2.34	B	77
Composite Area & Weighted CN	2.34		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	4.51
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:12:53

Subbasin : Sub-35





Impervious Area	
Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

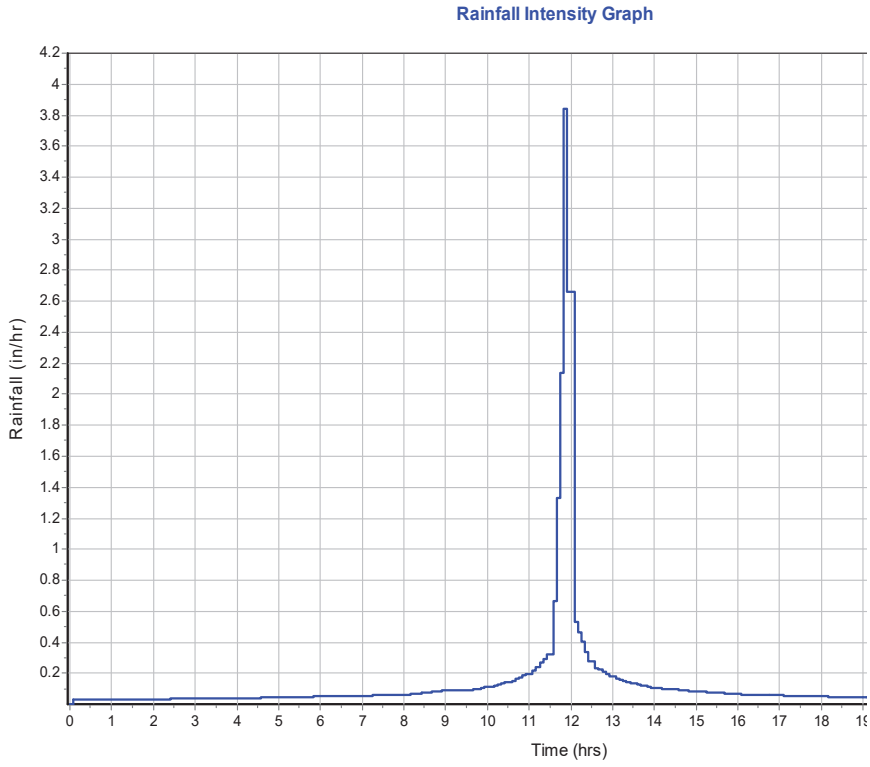
Composite Curve Number

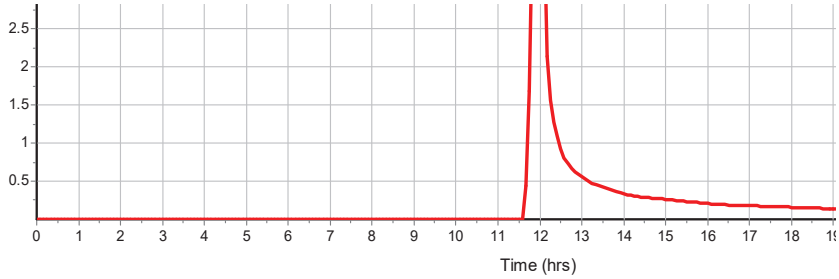
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	4.27	B	77
Composite Area & Weighted CN	4.27		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	7.96
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:14:47

Subbasin : Sub-36





Manning's Roughness	0.015
Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

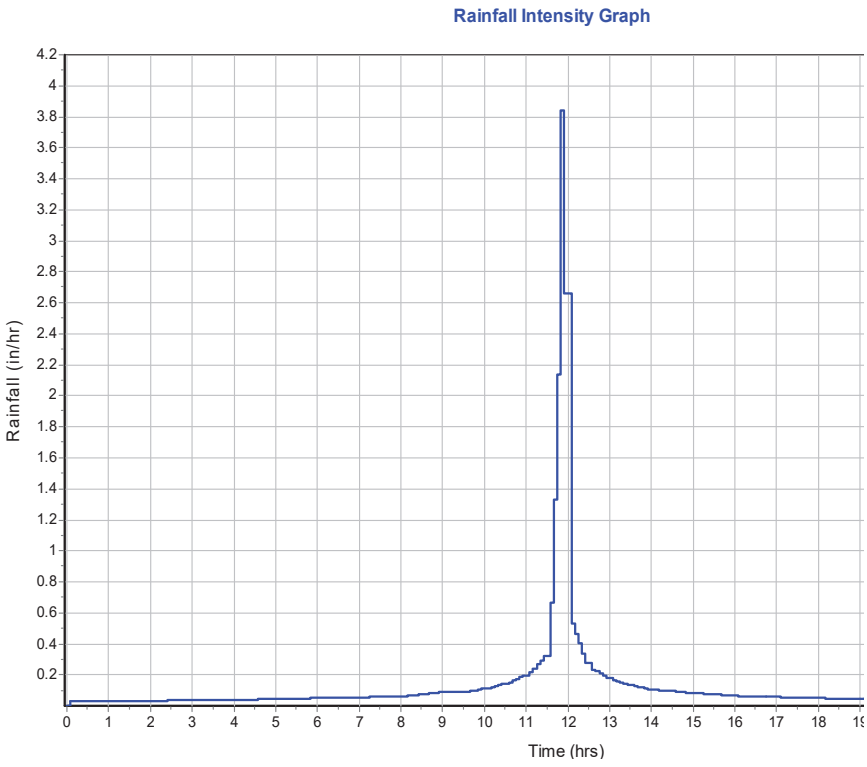
Composite Curve Number

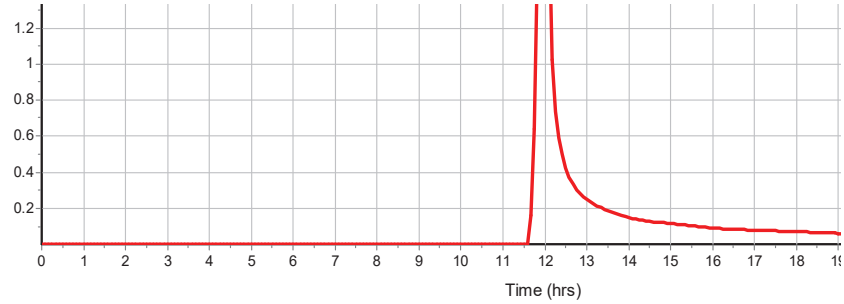
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	1.88	B	77
Composite Area & Weighted CN	1.88		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	3.32
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:17:16

Subbasin : Sub-37





Pervious Area	
Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

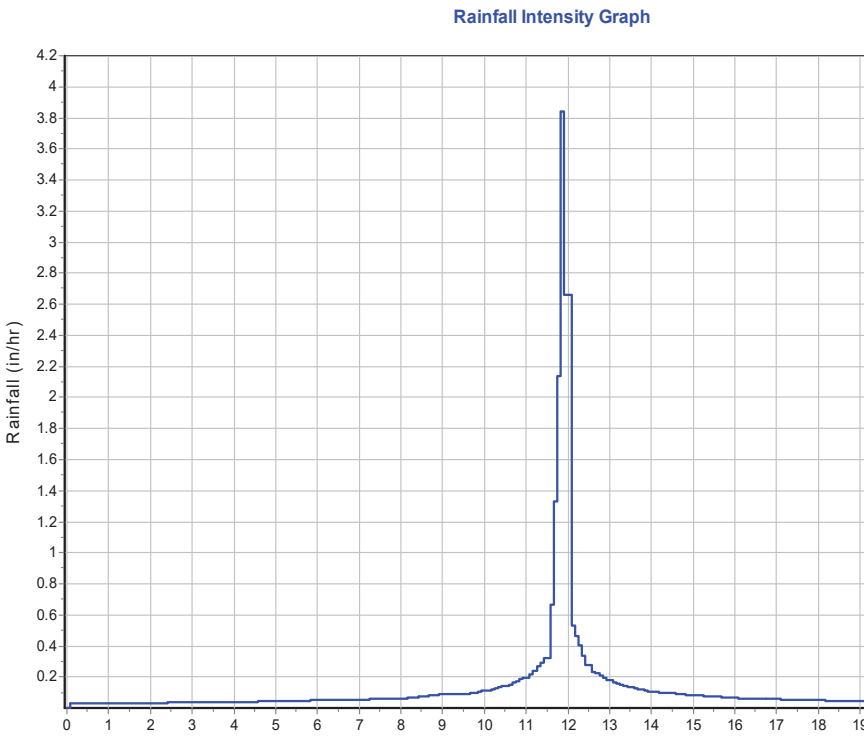
Composite Curve Number

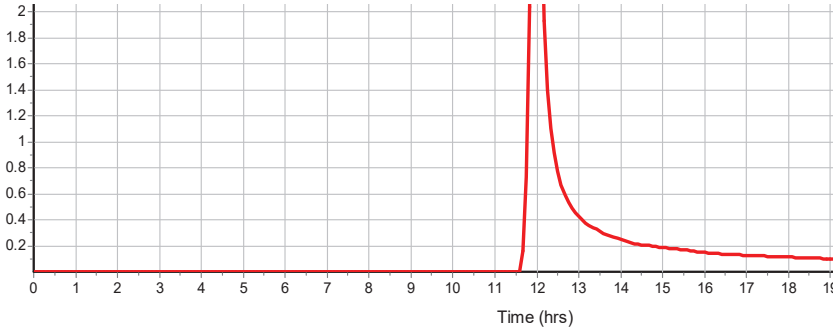
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	2.99	B	77
Composite Area & Weighted CN	2.99		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	4.71
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:23:49

Subbasin : Sub-38





Manning's Roughness	0.1
Curb & Gutter Length (ft)	0
Rain Gage ID	Rain Gage-01

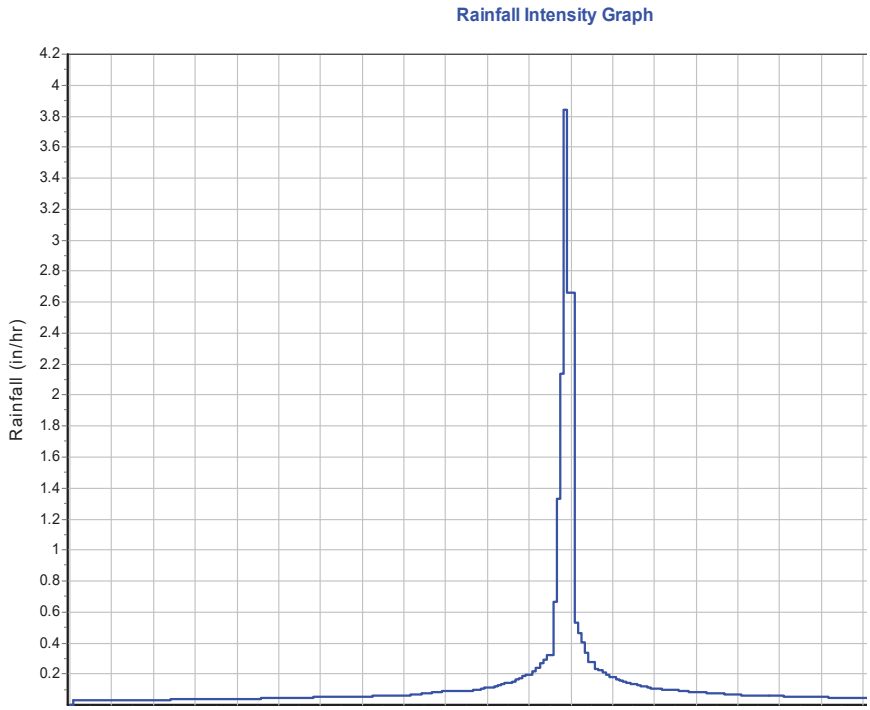
Composite Curve Number

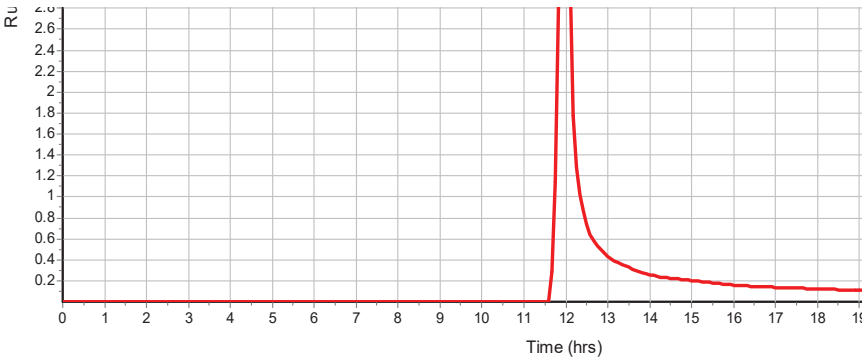
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	3.29	B	77
Composite Area & Weighted CN	3.29		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	5.86
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:16:55

Subbasin : Sub-39





Curb & Gutter Length (ft) 0
Rain Gage ID ..... Rain Gage-01

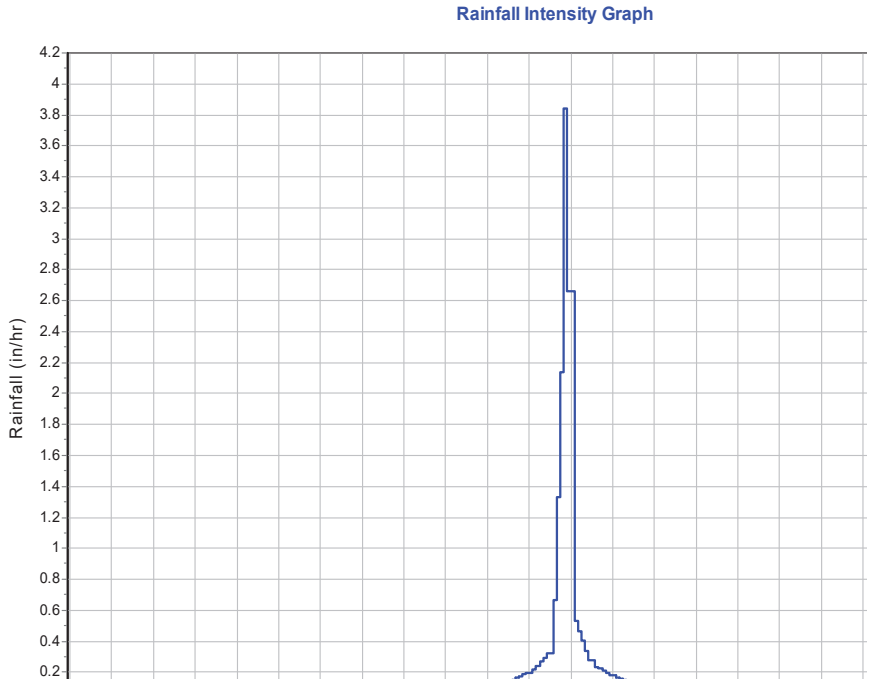
Composite Curve Number

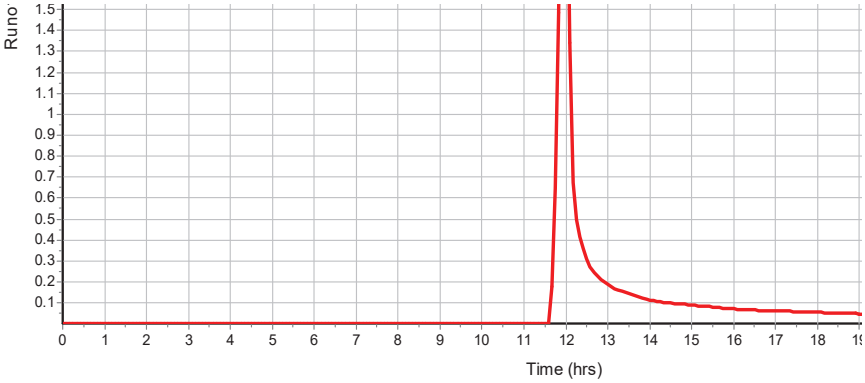
32	Area	Soil	Curve
Soil/Surface Description	(acres)	Group	Number
Natural western desert	1.46	B	77
Composite Area & Weighted CN	1.46		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.83
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:12:44

Subbasin : Sub-40





Rain Gage ID ..... Rain Gage-01

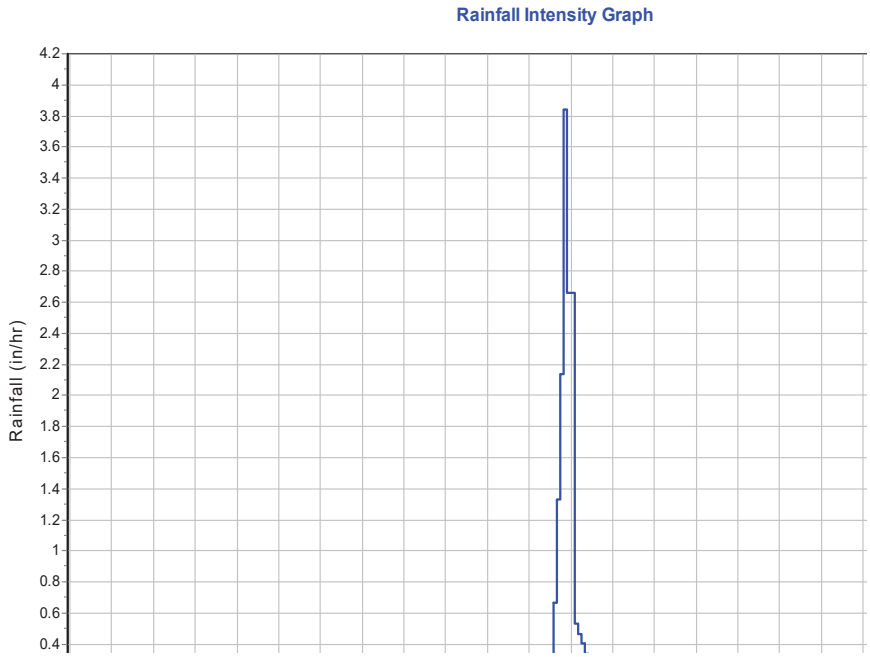
Composite Curve Number

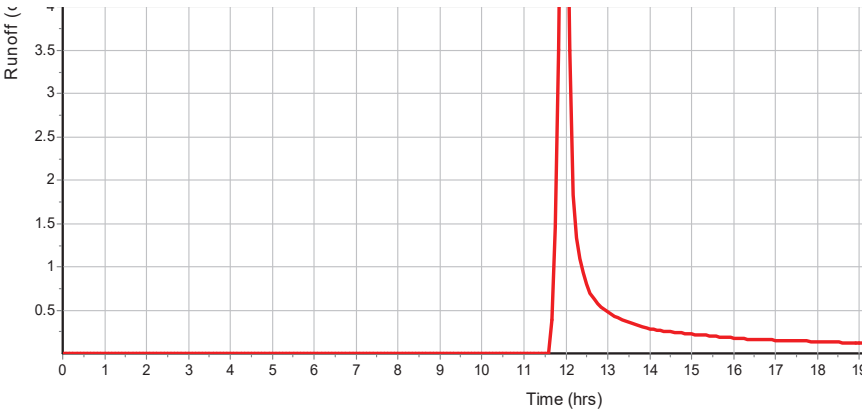
Soil/Surface Description	32 Area (acres)	Soil Group	Curve Number
Natural western desert	3.68	B	77
Composite Area & Weighted CN	3.68		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	6.87
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:14:37

Subbasin : Sub-41





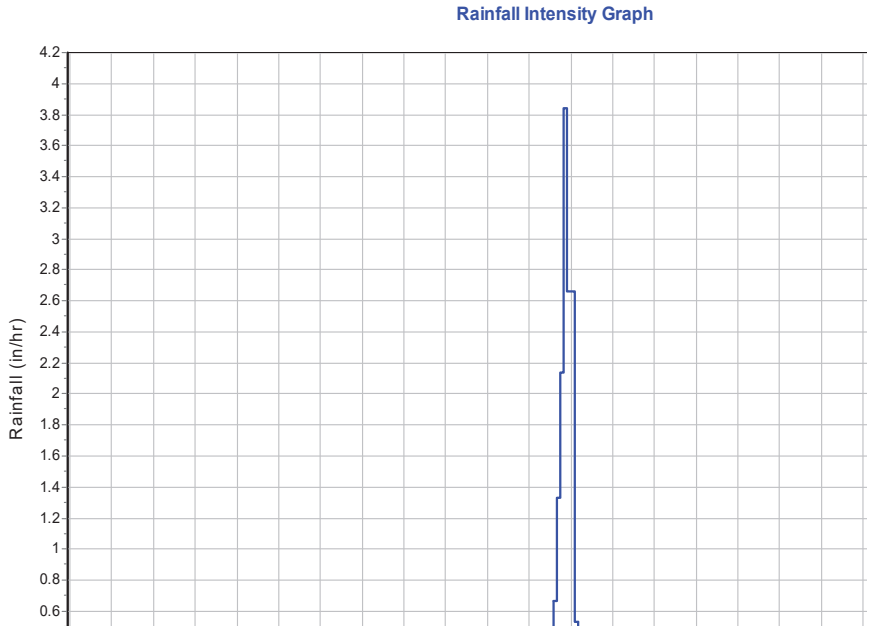
Composite Curve Number

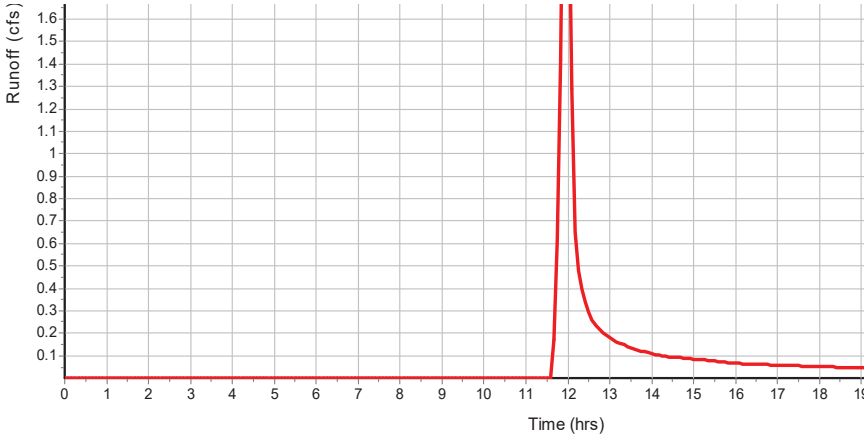
32 Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	1.4	B	77
Composite Area & Weighted CN	1.4		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.71
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:12:47

Subbasin : Sub-42





Composite Curve Number

32

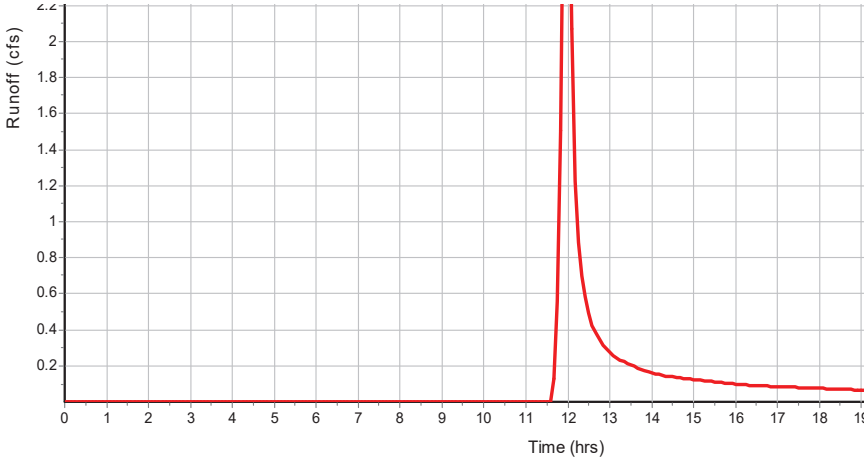
Soil/Surface Description	Area (acres)	Soil Group	Curve Number
Natural western desert	2.01	B	77
Composite Area & Weighted CN	2.01		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.15
Peak Runoff (cfs)	3.22
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:21:14

Subbasin : Sub-43

Rainfall Intensity Graph

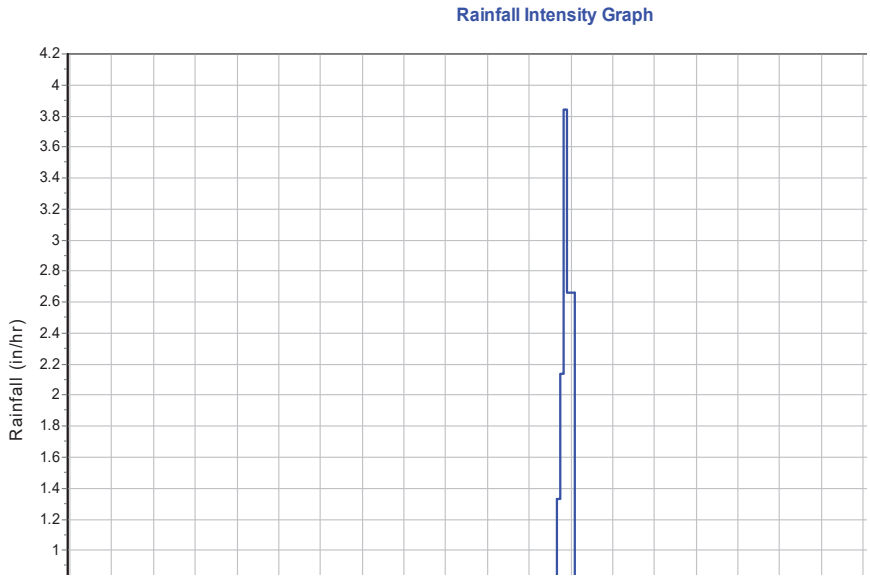


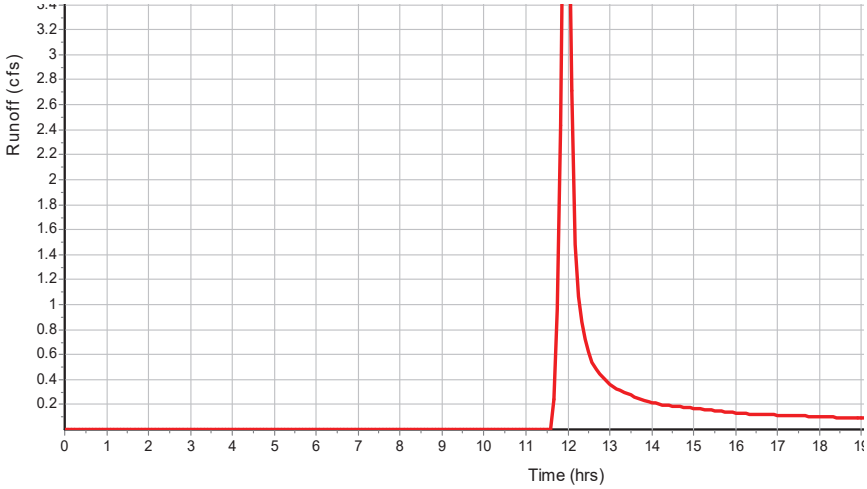
Soil/Surface Description	(acres)	Group	Number
Natural western desert	2.75	B	77
Composite Area & Weighted CN	2.75		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	4.92
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:16:49

Subbasin : Sub-44



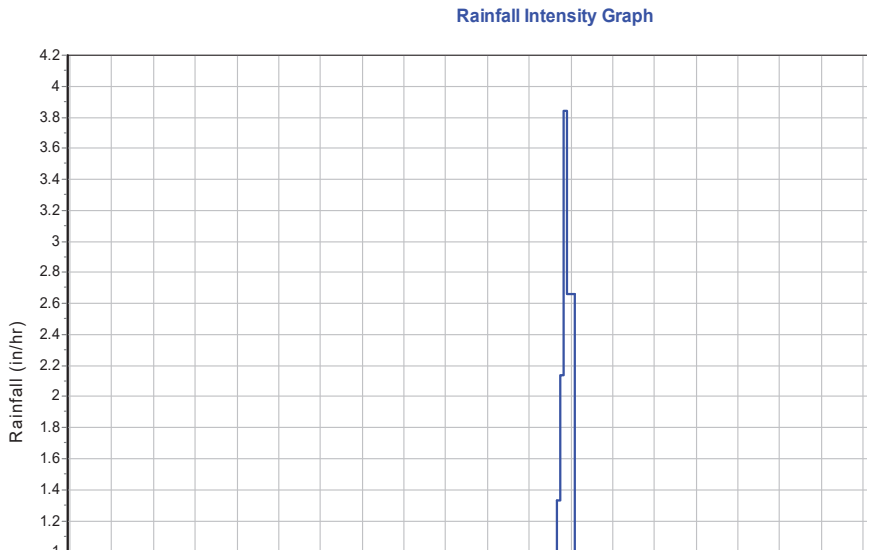


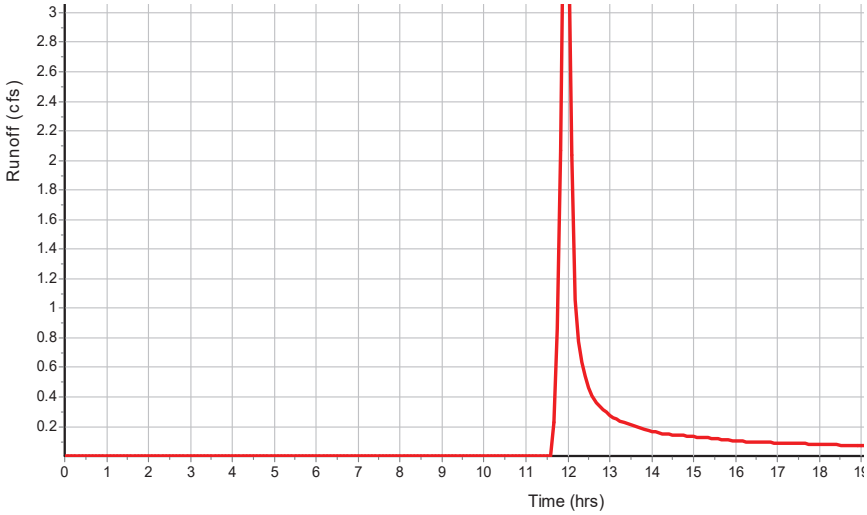
Natural western desert	2.15	B	77
Composite Area & Weighted CN	2.15		77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	4.03
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:14:23

Subbasin : Sub-45



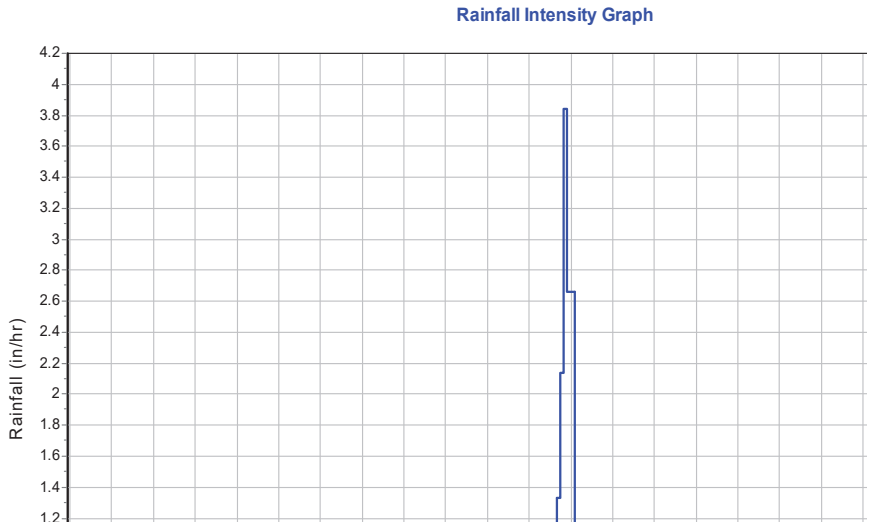


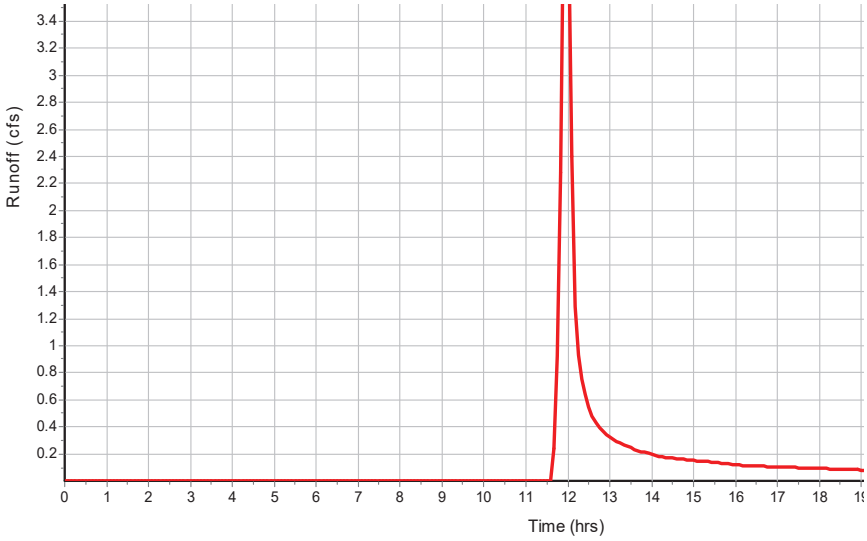
Composite Area & Weighted CN	2.48	77

Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	4.53
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:15:45

Subbasin : Sub-46



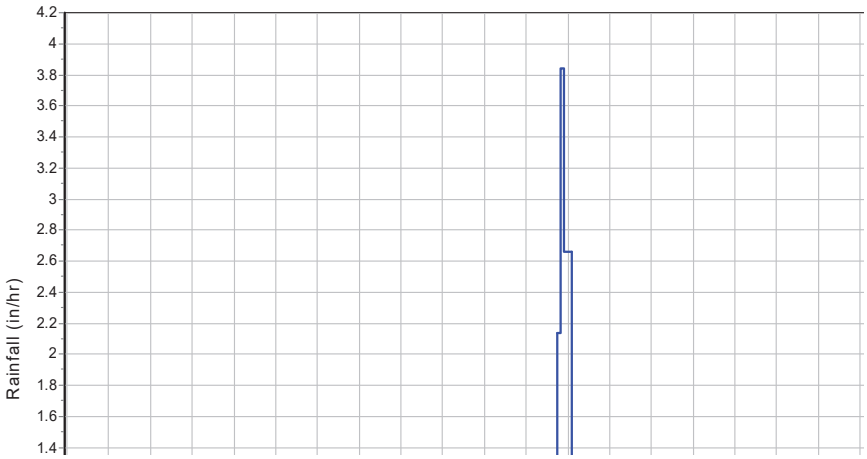


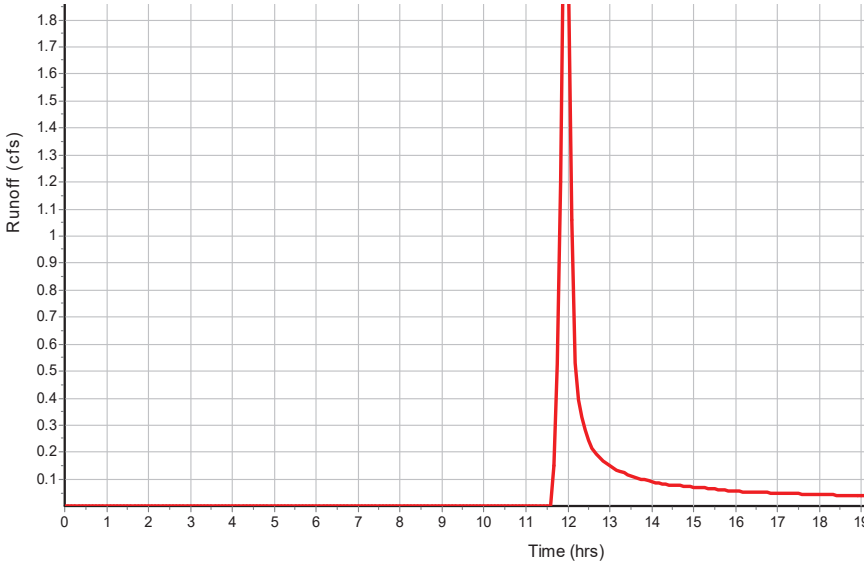
Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.27
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:12:19

Subbasin : Sub-47

Rainfall Intensity Graph



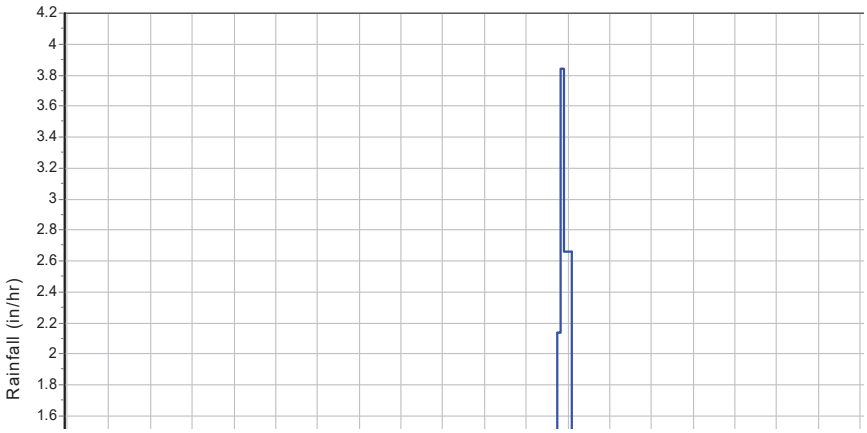


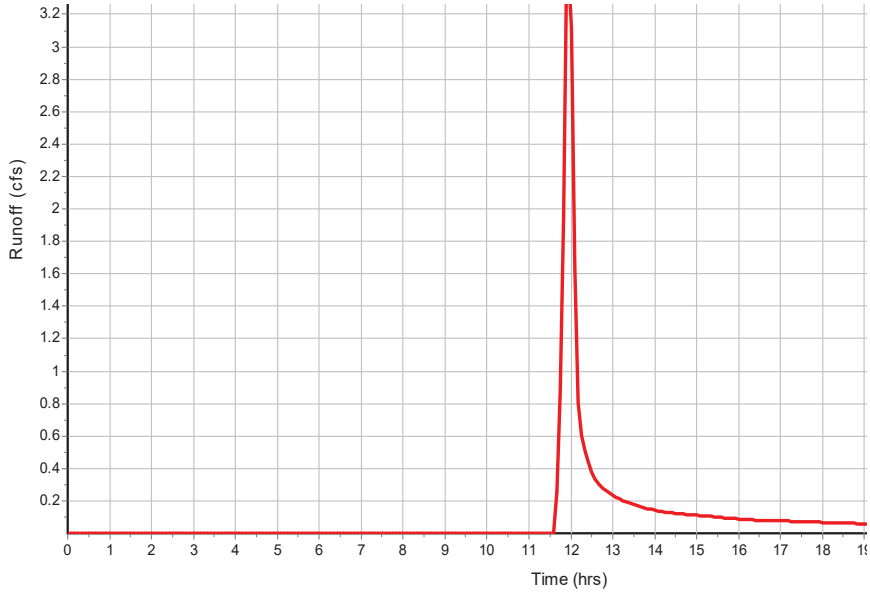
Subbasin Runoff Results

Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	3.65
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:11:18

Subbasin : Sub-48

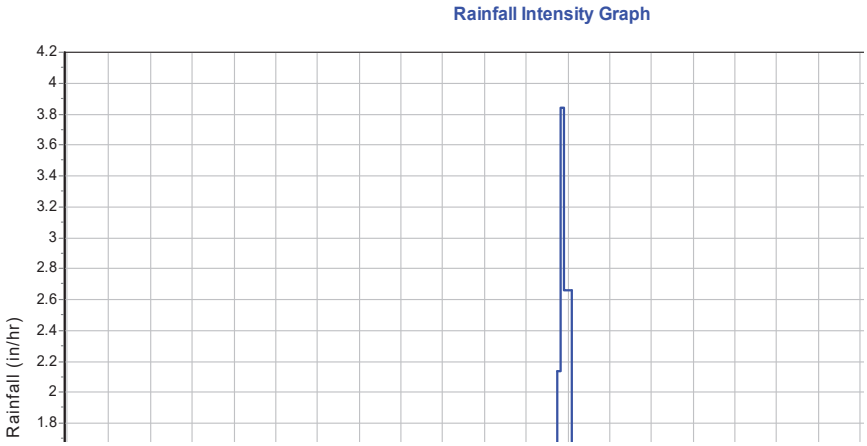
Rainfall Intensity Graph

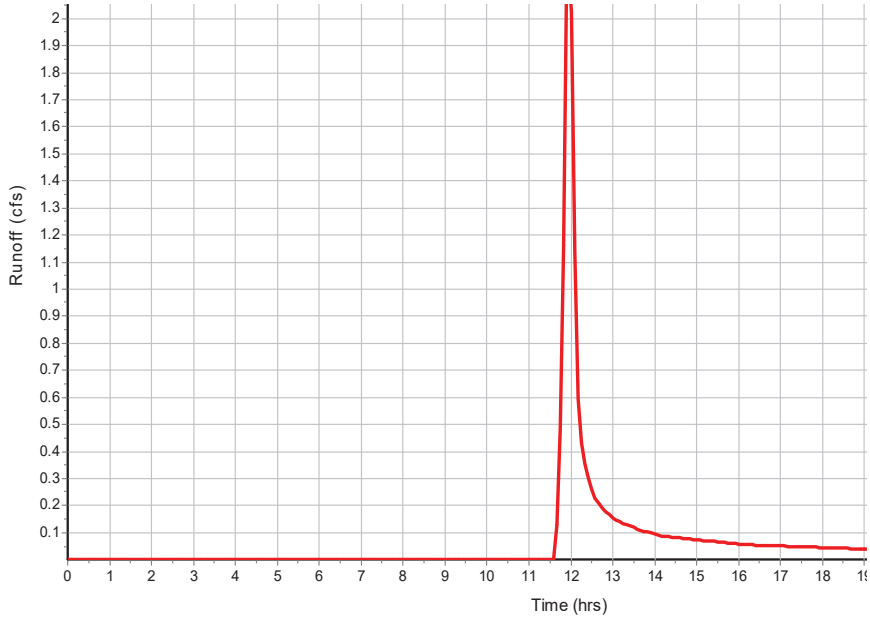




Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.27
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:14:19

Subbasin : Sub-49

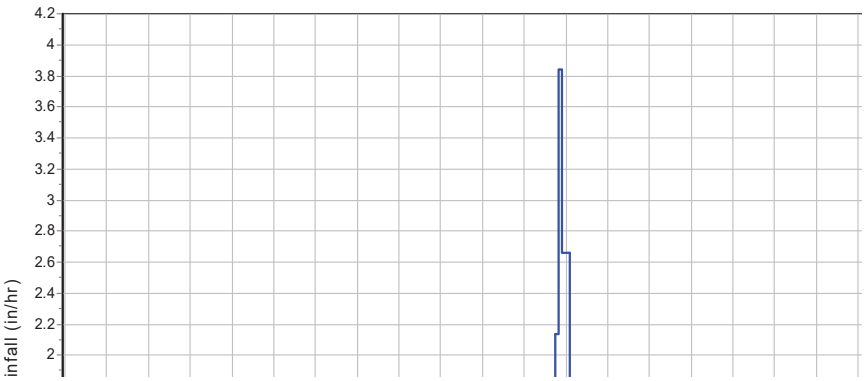


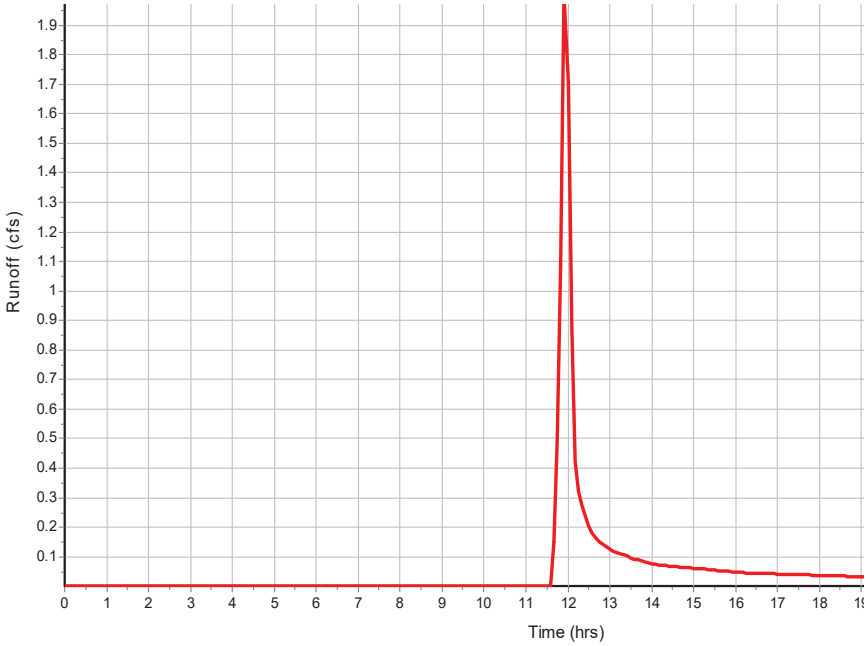


Total Rainfall (in)	2.8
Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:10:34

Subbasin : Sub-50

Rainfall Intensity Graph

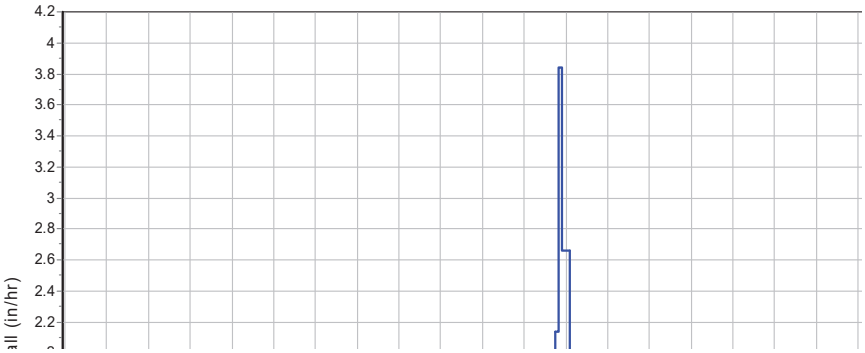


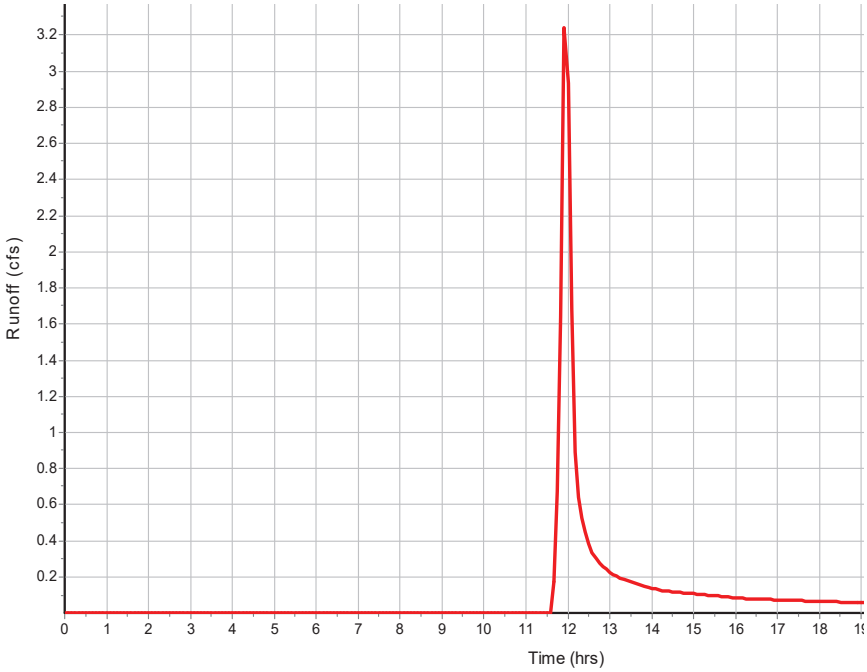


Total Runon (in)	0
Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	3.24
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:15:07

Subbasin : Sub-51

Rainfall Intensity Graph

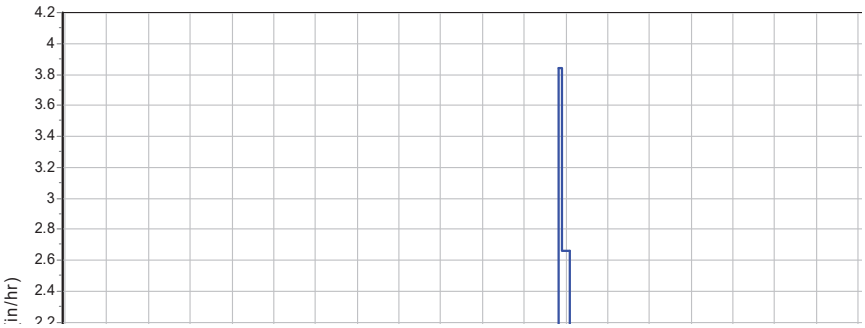


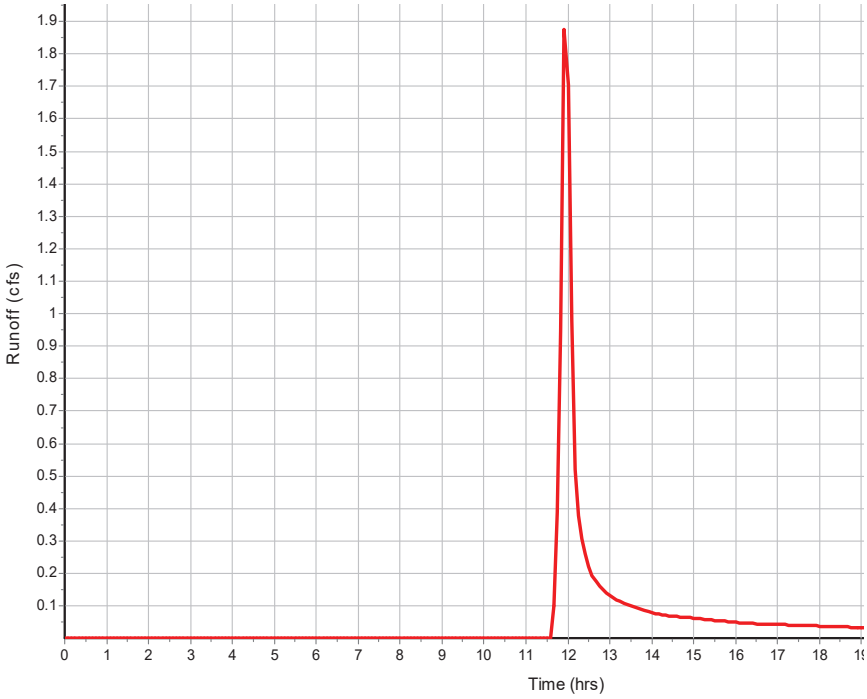


Total Evaporation (in)	0
Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	1.88
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:15:17

Subbasin : Sub-52

Rainfall Intensity Graph

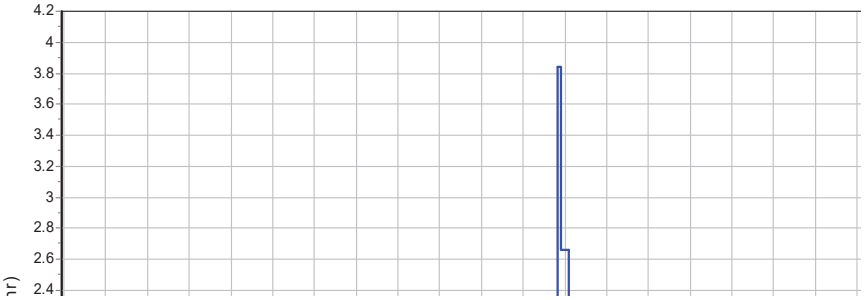


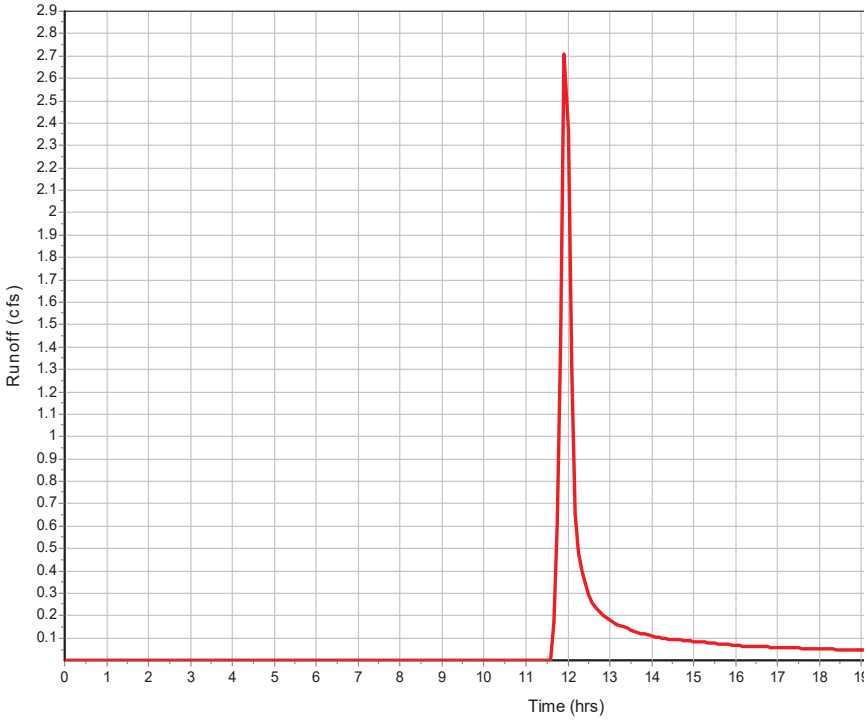


Total Infiltration (in)	1.445
Total Runoff (in)	1.16
Peak Runoff (cfs)	2.71
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:12:56

Subbasin : Sub-53

Rainfall Intensity Graph

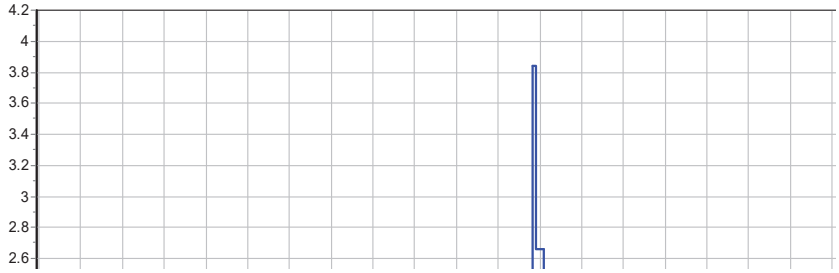


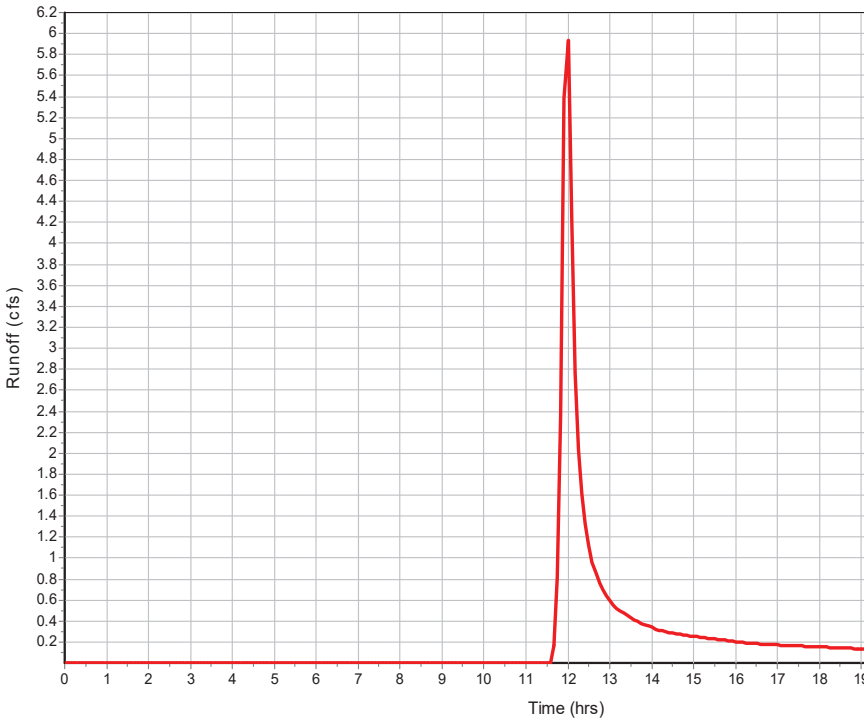


Total Runoff (in)	1.14
Peak Runoff (cfs)	6.04
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:27:51

Subbasin : Sub-54

Rainfall Intensity Graph

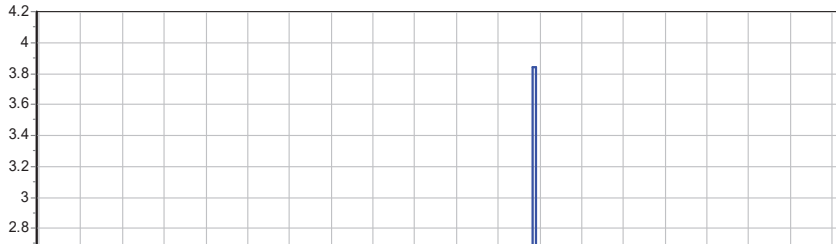




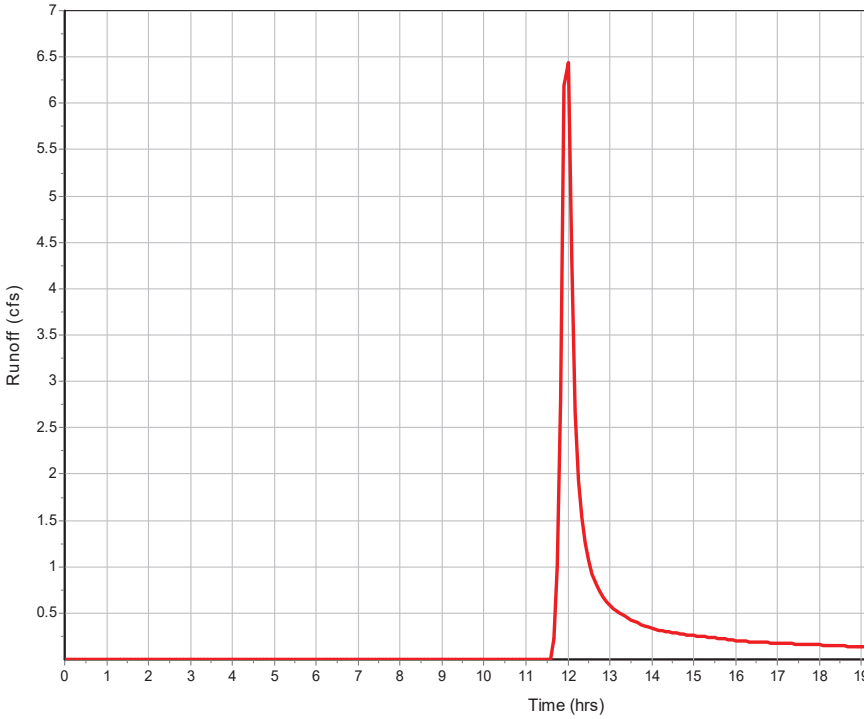
Peak Runoff (cfs)	6.49
Weighted Curve Number	77
Time of Concentration (days hh:mm:ss)	0 00:23:51

Subbasin : Sub-56

Rainfall Intensity Graph



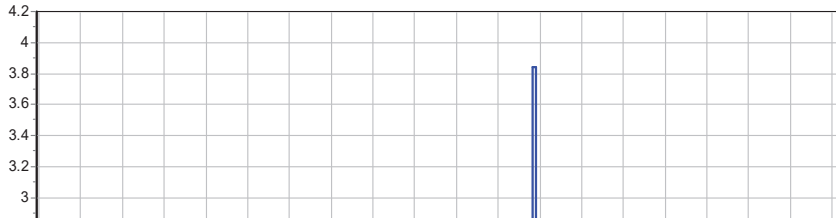
Runoff Hydrograph



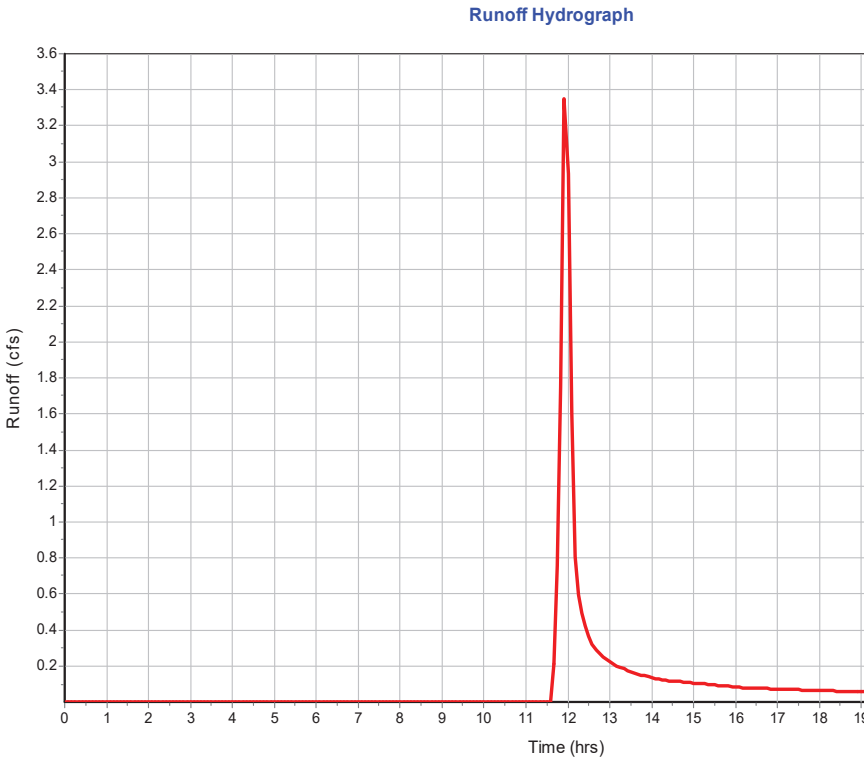
Weighted Curve Number 77
Time of Concentration (days hh:mm:ss) 0 00:12:57

Subbasin : Sub-57

Rainfall Intensity Graph



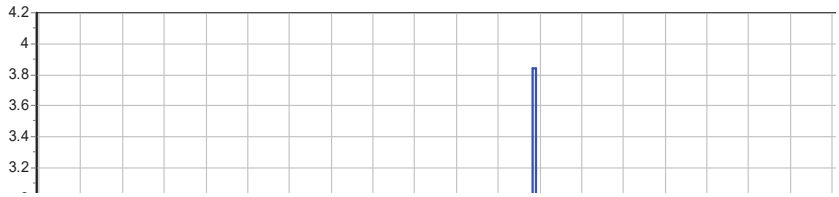
Subbasin : Sub-5e

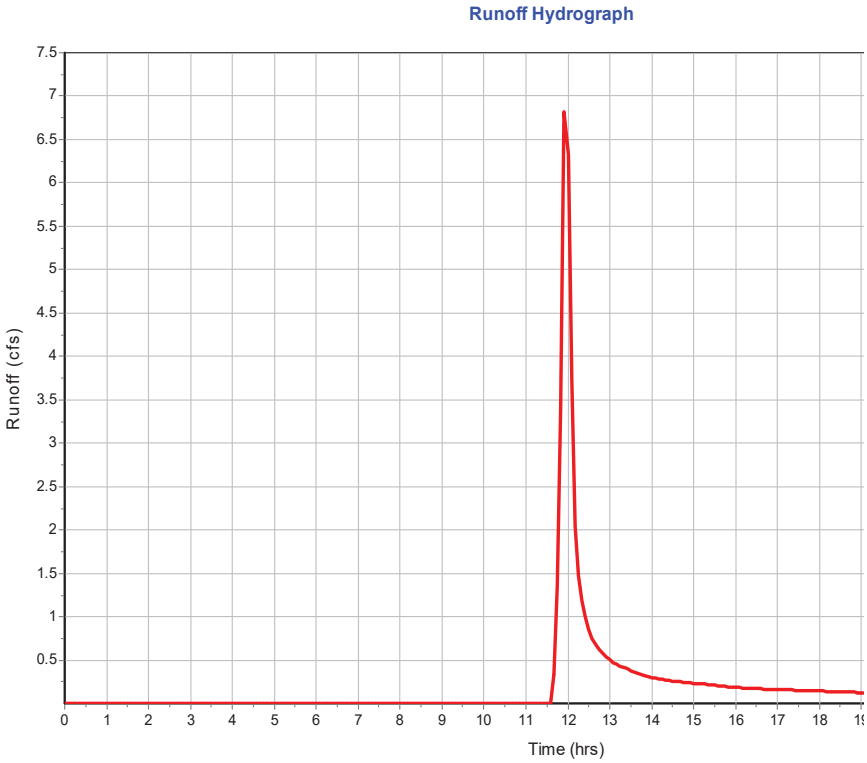


Time of Concentration (days hh:mm:ss) 0 00:16:41

Subbasin : Sub-58

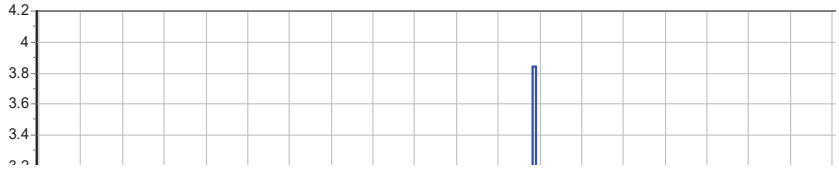
Rainfall Intensity Graph




Runoff Hydrograph
Runoff (cfs)
Time (hrs)
7.5
7
6.5
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

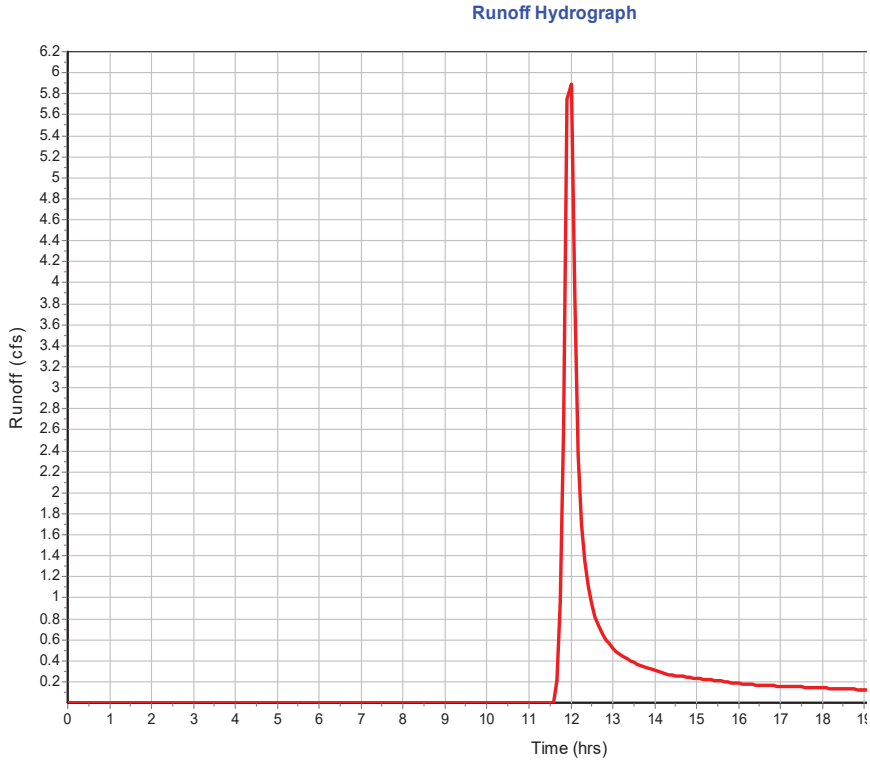
Subbasin : Sub-59

Rainfall Intensity Graph



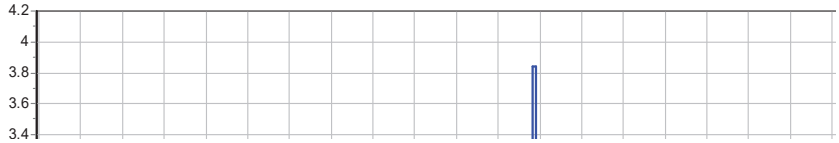
Time (hrs)

Input Data

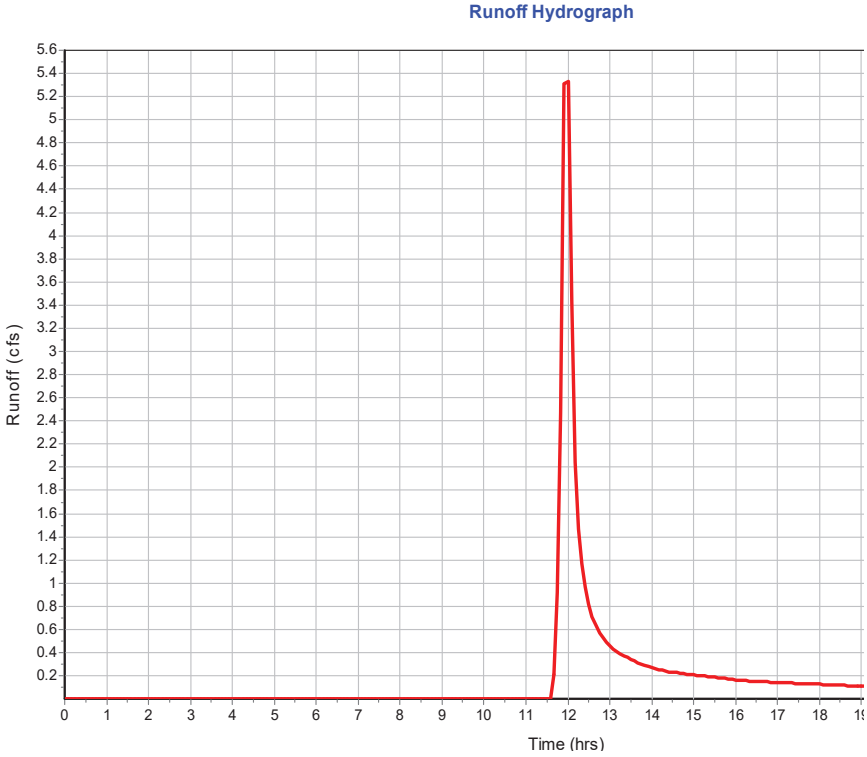


Subbasin : Sub-60

Rainfall Intensity Graph

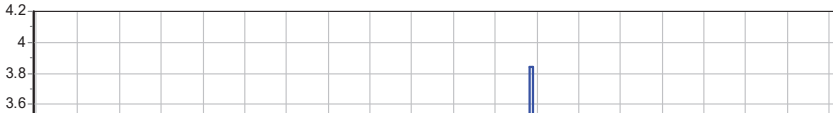


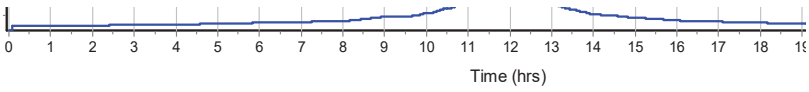
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Time (hrs)


Runoff Hydrograph
Runoff (cfs)
5.6 5.4 5.2 5 4.8 4.6 4.4 4.2 4 3.8 3.6 3.4 3.2 3 2.8 2.6 2.4 2.2 2 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 0.2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
Time (hrs)

Time (hrs)

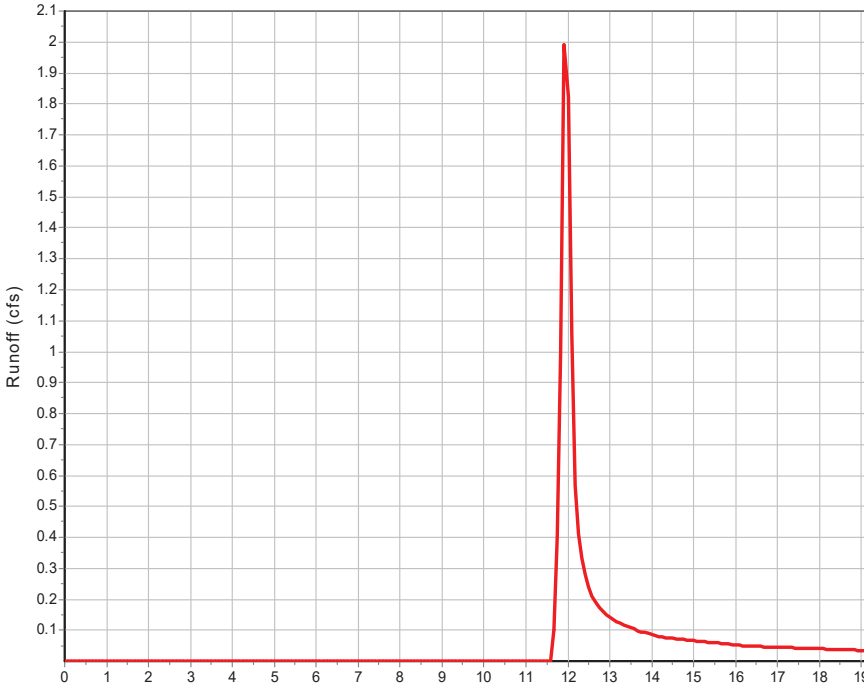
Rainfall Intensity Graph





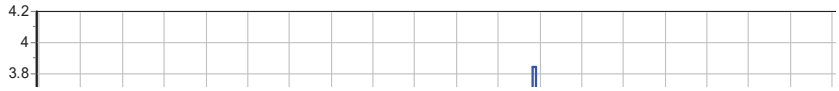
Area (ac) 3.89

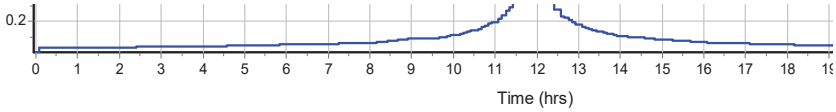
Runoff Hydrograph



Time (hrs)

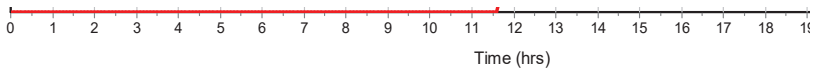
Rainfall Intensity Graph



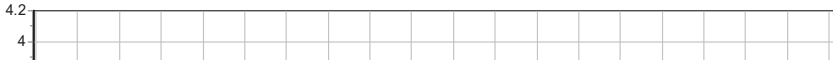


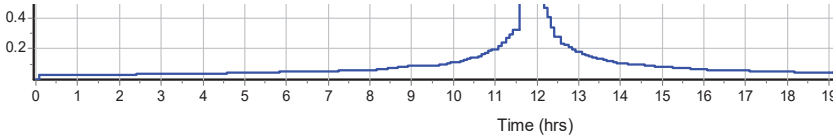
Impervious Area (%) 0

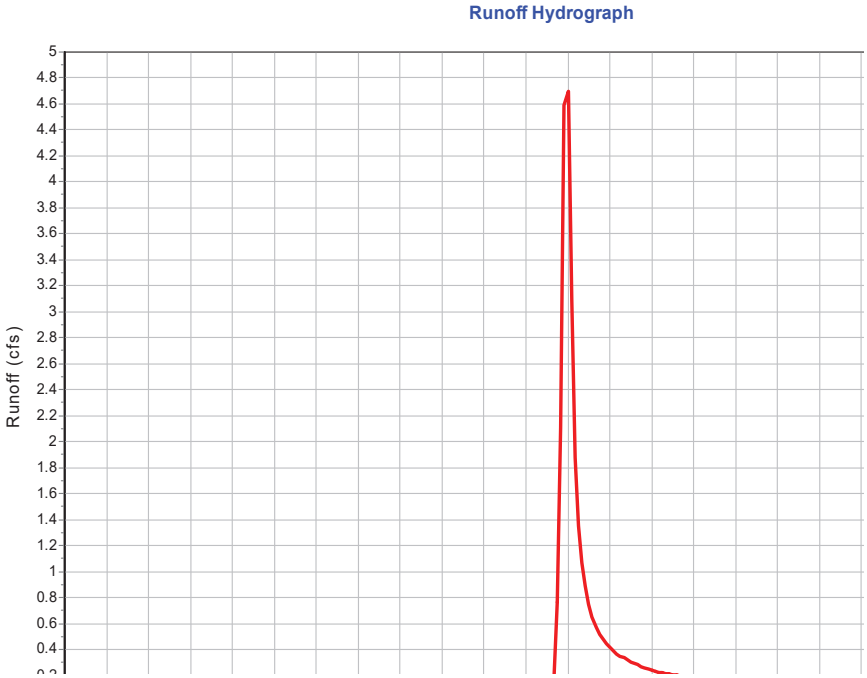
Runoff Hydrograph

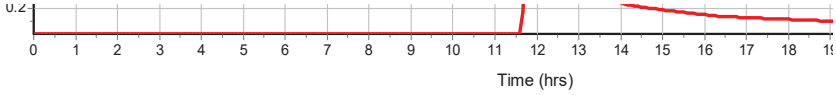


Rainfall Intensity Graph

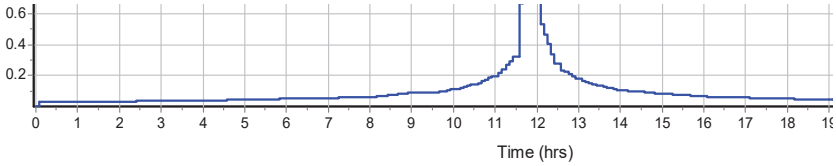


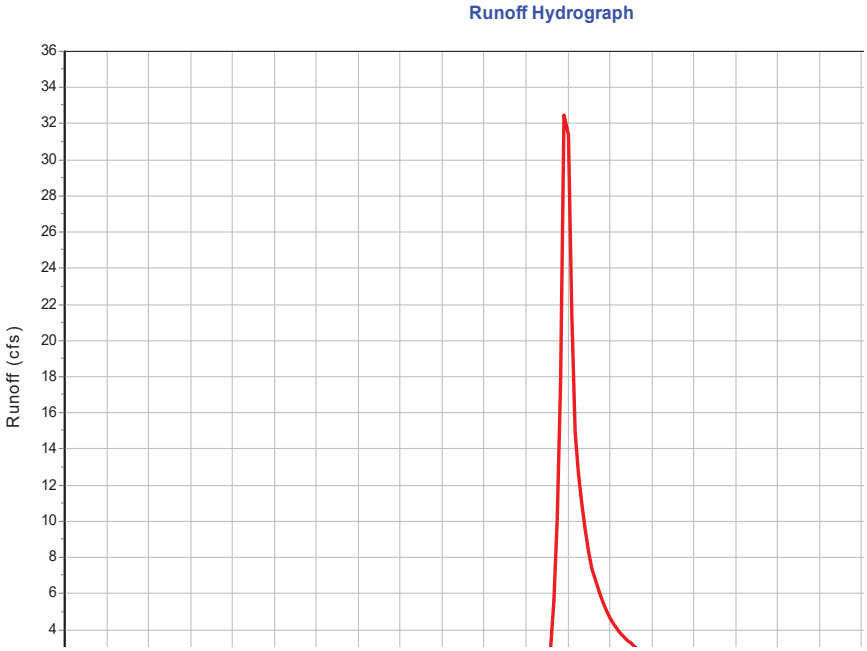

0.4
0.2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Time (hrs)

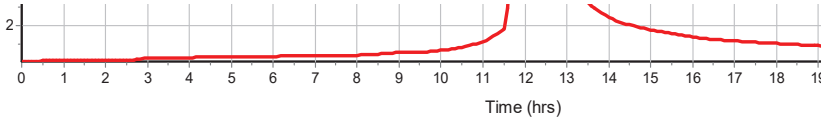

Runoff Hydrograph
Runoff (cfs)
5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4



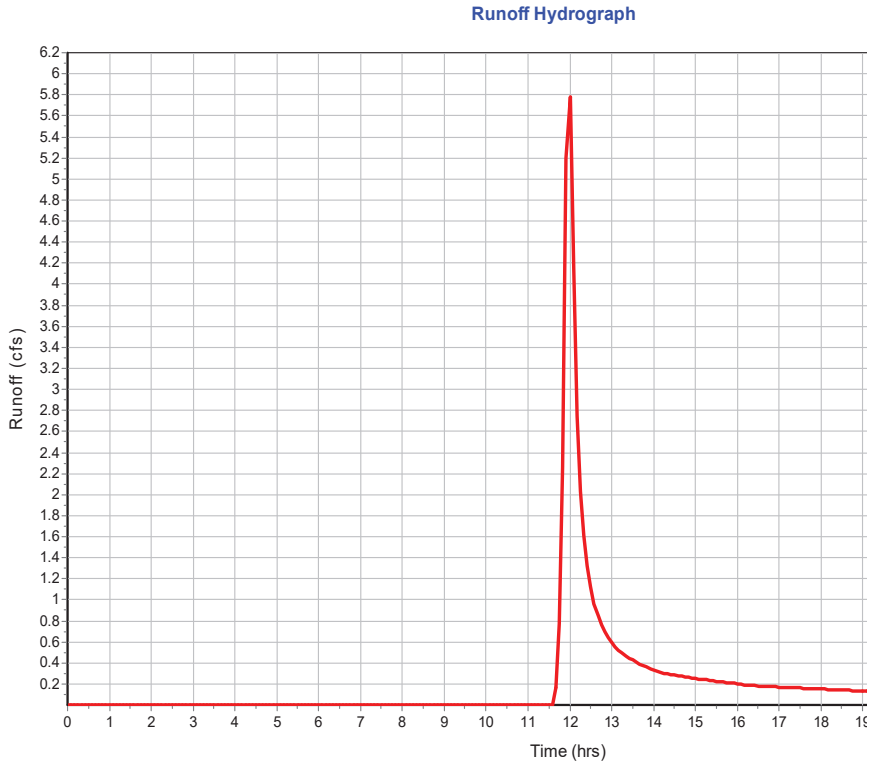
Rainfall Intensity Graph


0.6
0.4
0.2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Time (hrs)


Runoff Hydrograph
Runoff (cfs)
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4



Rainfall Intensity Graph


Runoff Hydrograph
Runoff (cfs)
Time (hrs)
6.2
6
5.8
5.6
5.4
5.2
5
4.8
4.6
4.4
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

Junction Input

SN	Element ID	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft^2)	Minimum Pipe Cover (in)
1	1-Jun	1295.00	0.00	-1295.00	0.00	-1295.00	0.00	0.00	0.00	0.00
2	2-Jun	1321.00	0.00	-1321.00	0.00	-1321.00	0.00	0.00	0.00	0.00
3	5-Jun	1270.00	0.00	-1270.00	0.00	-1270.00	0.00	0.00	0.00	0.00
4	6-Jun	1300.00	0.00	-1300.00	0.00	-1300.00	0.00	0.00	0.00	0.00
5	7-Jun	1196.00	1300.00	104.00	0.00	-1196.00	1300.00	0.00	0.00	1230.00
6	8-Jun	1254.00	0.00	-1254.00	0.00	-1254.00	0.00	0.00	0.00	0.00
7	9-Jun	1162.00	0.00	-1162.00	0.00	-1162.00	0.00	0.00	0.00	0.00
8	10-Jun	1146.00	0.00	-1146.00	0.00	-1146.00	0.00	0.00	0.00	0.00
9	11-Jun	1336.00	1400.00	64.00	0.00	-1336.00	1400.00	0.00	0.00	750.00
10	14-Jun	1247.30	0.00	-1247.30	0.00	-1247.30	0.00	0.00	0.00	0.00
11	15-Jun	1192.00	0.00	-1192.00	0.00	-1192.00	0.00	0.00	0.00	0.00
12	16-Jun	1140.00	1300.00	160.00	0.00	-1140.00	1300.00	0.00	0.00	1824.00
13	17-Jun	1202.00	0.00	-1202.00	0.00	-1202.00	0.00	0.00	0.00	0.00
14	18-Jun	1362.00	0.00	-1362.00	0.00	-1362.00	0.00	0.00	0.00	0.00
15	20-Jun	1243.00	0.00	-1243.00	0.00	-1243.00	0.00	0.00	0.00	0.00
16	25-Jun	1322.30	0.00	-1322.30	0.00	-1322.30	0.00	0.00	0.00	0.00
17	26-Jun	1295.50	0.00	-1295.50	0.00	-1295.50	0.00	0.00	0.00	0.00
18	27-Jun	1284.00	0.00	-1284.00	0.00	-1284.00	0.00	0.00	0.00	0.00
19	28-Jun	1283.00	0.00	-1283.00	0.00	-1283.00	0.00	0.00	0.00	0.00
20	29-Jun	1280.00	0.00	-1280.00	0.00	-1280.00	0.00	0.00	0.00	0.00
21	30-Jun	1245.00	0.00	-1245.00	0.00	-1245.00	0.00	0.00	0.00	0.00
22	Jun-31	1248.00	0.00	-1248.00	0.00	-1248.00	0.00	0.00	0.00	0.00
23	Jun-32	1204.00	1205.50	1.50	0.00	-1204.00	0.00	-1205.50	0.00	0.00
24	Jun-33	1152.00	0.00	-1152.00	0.00	-1152.00	0.00	0.00	0.00	0.00
25	Jun-34	1121.90	0.00	-1121.90	0.00	-1121.90	0.00	0.00	0.00	0.00
26	Jun-35	1199.50	0.00	-1199.50	0.00	-1199.50	0.00	0.00	0.00	0.00
27	Jun-36	1211.00	0.00	-1211.00	0.00	-1211.00	0.00	0.00	0.00	0.00
28	Jun-37	1210.00	0.00	-1210.00	0.00	-1210.00	0.00	0.00	0.00	0.00
29	Jun-38	1173.00	0.00	-1173.00	0.00	-1173.00	0.00	0.00	0.00	0.00
30	Jun-39	1229.00	0.00	-1229.00	0.00	-1229.00	0.00	0.00	0.00	0.00
31	Jun-40	1112.00	0.00	-1112.00	0.00	-1112.00	0.00	0.00	0.00	0.00
32	Jun-41	1238.00	0.00	-1238.00	0.00	-1238.00	0.00	0.00	0.00	0.00
33	Jun-42	1334.00	6.00	-1328.00	0.00	-1334.00	0.00	-6.00	0.00	0.00
34	Jun-43	1175.00	0.00	-1175.00	0.00	-1175.00	0.00	0.00	0.00	0.00
35	Jun-44	1192.00	0.00	-1192.00	0.00	-1192.00	0.00	0.00	0.00	0.00
36	Jun-45	1246.00	0.00	-1246.00	0.00	-1246.00	0.00	0.00	0.00	0.00
37	Jun-46	1295.00	0.00	-1295.00	0.00	-1295.00	0.00	0.00	0.00	0.00
38	Jun-47	1318.00	0.00	-1318.00	0.00	-1318.00	0.00	0.00	0.00	0.00
39	Jun-48	1208.00	0.00	-1208.00	0.00	-1208.00	0.00	0.00	0.00	0.00
40	Jun-49	1230.00	0.00	-1230.00	0.00	-1230.00	0.00	0.00	0.00	0.00
41	Jun-51	1307.00	0.00	-1307.00	0.00	-1307.00	0.00	0.00	0.00	0.00
42	Jun-56	1250.00	0.00	-1250.00	0.00	-1250.00	0.00	0.00	0.00	0.00
43	Jun-58	1230.00	0.00	-1230.00	0.00	-1230.00	0.00	0.00	0.00	0.00
44	Jun-59	1229.00	0.00	-1229.00	0.00	-1229.00	0.00	0.00	0.00	0.00
45	Jun-60	1262.50	1350.00	87.50	0.00	-1262.50	1350.00	0.00	0.00	1032.00

Junction Results

SN	Element ID	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Max HGL Elevation Attained (ft)	Max HGL Depth Attained (ft)	Max Surcharge Depth Attained (ft)	Min Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Max HGL Occurrence (days hh:mm)	F Occ (days
1	1-Jun	8.81	0.00	1295.17	0.17	0.00	1.83	1295.04	0.04	0 12:05	
2	2-Jun	2.71	2.71	1321.72	0.72	0.00	0.78	1321.23	0.23	0 12:05	
3	5-Jun	1.88	1.88	1270.67	0.67	0.00	0.83	1270.22	0.22	0 12:05	
4	6-Jun	4.51	4.51	1301.39	1.39	0.00	0.11	1300.55	0.55	0 12:08	
5	7-Jun	4.71	4.71	1201.56	5.56	0.00	98.44	1196.58	0.58	0 12:02	
6	8-Jun	1.73	1.73	1255.03	1.03	0.00	0.47	1254.36	0.36	0 12:05	
7	9-Jun	2.07	2.07	1162.97	0.97	0.00	0.53	1162.39	0.39	0 12:07	
8	10-Jun	21.79	0.00	1146.33	0.33	0.00	1.67	1146.07	0.07	0 12:08	
9	11-Jun	4.93	4.93	1359.91	23.91	0.00	40.09	1336.49	0.49	0 12:04	
10	14-Jun	20.80	4.92	1247.58	0.28	0.00	1.72	1247.35	0.05	0 12:08	
11	15-Jun	28.54	5.86	1192.35	0.35	0.00	1.65	1192.07	0.07	0 12:08	
12	16-Jun	53.56	0.00	1143.35	3.35	0.00	156.65	1142.29	2.29	0 12:10	
13	17-Jun	15.04	3.22	1203.30	1.30	0.00	0.20	1202.45	0.45	0 12:08	
14	18-Jun	2.00	2.00	1362.88	0.88	0.00	0.62	1362.25	0.25	0 12:01	
15	20-Jun	2.71	2.71	1244.15	1.15	0.00	0.35	1243.43	0.43	0 12:06	
16	25-Jun	8.97	0.00	1322.47	0.17	0.00	1.83	1322.32	0.02	0 12:05	
17	26-Jun	1.44	0.00	1295.56	0.06	0.00	1.94	1295.52	0.02	0 12:11	
18	27-Jun	7.37	0.00	1284.98	0.98	0.00	0.52	1284.22	0.22	0 12:06	
19	28-Jun	12.66	0.00	1283.20	0.20	0.00	2.30	1283.05	0.05	0 12:06	
20	29-Jun	11.26	0.00	1280.19	0.19	0.00	1.81	1280.03	0.03	0 12:06	
21	30-Jun	12.40	0.00	1245.21	0.21	0.00	1.79	1245.04	0.04	0 12:06	
22	Jun-31	10.66	0.00	1248.20	0.20	0.00	1.80	1248.04	0.04	0 12:08	
23	Jun-32	14.97	0.00	1204.25	0.25	0.00	1.75	1204.06	0.06	0 12:09	
24	Jun-33	46.80	0.00	1154.22	2.22	0.00	0.78	1152.75	0.75	0 12:14	
25	Jun-34	75.12	4.03	1124.67	2.77	0.00	0.23	1122.72	0.82	0 12:14	
26	Jun-35	17.48	5.37	1200.49	0.99	0.00	2.01	1199.69	0.19	0 12:08	
27	Jun-36	7.31	0.00	1211.83	0.83	0.00	1.17	1211.32	0.32	0 12:15	
28	Jun-37	6.03	0.00	1211.83	1.83	0.00	0.67	1211.28	1.28	0 12:15	
29	Jun-38	20.12	0.00	1173.30	0.30	0.00	1.70	1173.06	0.06	0 12:07	
30	Jun-39	14.09	0.00	1229.23	0.23	0.00	1.77	1229.05	0.05	0 12:07	
31	Jun-40	122.56	0.00	1114.09	2.09	0.00	3.75	1112.63	0.63	0 12:17	
32	Jun-41	6.35	5.43	1239.28	1.28	0.00	0.22	1238.44	0.44	0 12:07	
33	Jun-42	13.53	13.53	1335.07	1.07	0.00	0.93	1334.41	0.41	0 12:06	
34	Jun-43	39.45	8.97	1176.46	1.46	0.00	1.54	1175.44	0.44	0 12:13	
35	Jun-44	15.28	2.83	1193.12	1.12	0.00	0.38	1192.41	0.41	0 12:09	
36	Jun-45	6.77	3.65	1246.91	0.91	0.00	2.09	1246.31	0.31	0 12:06	
37	Jun-46	3.91	2.27	1296.09	1.09	0.00	0.41	1295.35	0.35	0 12:05	
38	Jun-47	1.95	0.00	1318.83	0.83	0.00	0.67	1318.26	0.26	0 12:04	
39	Jun-48	10.57	2.27	1214.11	6.11	0.00	4.89	1212.78	4.78	0 21:25	
40	Jun-49	5.85	0.00	1230.80	0.80	0.00	0.70	1230.29	0.29	0 12:11	
41	Jun-51	8.39	6.04	1308.26	1.26	0.00	0.24	1307.43	0.43	0 12:07	
42	Jun-56	4.53	4.53	1250.51	0.51	0.00	2.49	1250.11	0.11	0 12:03	
43	Jun-58	10.46	0.00	1231.36	1.36	0.00	0.64	1230.25	0.25	0 12:08	
44	Jun-59	10.33	0.00	1229.19	0.19	0.00	1.81	1229.04	0.04	0 12:08	

Channel Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Shape	Height (ft)	Width (ft)	Manning's Roughness	Er
1	Link-06	757.15	1162.00	0.00	1146.00	0.00	16.00	2.1100	Triangular	1.500	9.000	0.0700	
2	Link-08	466.43	1270.00	0.00	1262.50	0.00	7.50	1.6100	Triangular	1.500	9.000	0.0700	
3	Link-09	238.74	1196.00	0.00	1192.00	0.00	4.00	1.6800	Triangular	1.500	9.000	0.0700	
4	Link-10	149.52	1295.00	0.00	1247.30	0.00	47.70	31.9000	Trapezoidal	2.000	14.000	0.0320	
5	Link-100	1279.81	1279.00	0.00	1175.00	0.00	104.00	8.1300	Triangular	1.500	9.000	0.0700	
6	Link-101	769.45	1214.00	0.00	1208.00	0.00	6.00	0.7800	Trapezoidal	3.000	15.000	0.0700	
7	Link-102	656.75	1214.00	0.00	1178.70	0.00	35.30	5.3700	Trapezoidal	3.000	15.000	0.0700	
8	Link-103	384.83	1178.70	0.00	1166.00	0.00	12.70	3.3000	Trapezoidal	3.000	15.000	0.0700	
9	Link-104	887.77	1166.00	0.00	1145.00	0.00	21.00	2.3700	Trapezoidal	3.000	15.000	0.0700	
10	Link-108	725.08	1145.00	0.00	1142.00	0.00	3.00	0.4100	Trapezoidal	3.000	15.000	0.0070	
11	Link-109	2344.70	1111.00	0.00	1088.00	0.00	23.00	0.9800	Trapezoidal	3.000	15.000	0.0320	
12	Link-11	159.03	1247.30	0.00	1192.00	0.00	55.30	34.7700	Trapezoidal	2.000	14.000	0.0320	
13	Link-110	120.69	1088.00	0.00	1078.00	0.00	10.00	8.2900	Trapezoidal	3.000	15.000	0.0320	
14	Link-12	167.74	1192.00	0.00	1132.00	-8.00	60.00	35.7700	Trapezoidal	2.000	14.000	0.0320	
15	Link-13	543.93	1362.00	0.00	1318.00	0.00	44.00	8.0900	Triangular	1.500	3.000	0.0700	
16	Link-14	247.02	1202.00	0.00	1192.00	0.00	10.00	4.0500	Triangular	1.500	9.000	0.0700	
17	Link-24	975.66	1300.00	0.00	1280.00	0.00	20.00	2.0500	Triangular	1.500	9.000	0.0700	
18	Link-27	434.74	1254.00	0.00	1245.00	0.00	9.00	2.0700	Triangular	1.500	9.000	0.0700	
19	Link-30	200.68	1211.00	1.00	1204.00	0.00	7.00	3.4900	Triangular	1.500	9.000	0.0320	
20	Link-34	716.30	1243.00	0.00	1229.00	0.00	14.00	1.9500	Triangular	1.500	9.000	0.0700	
21	Link-35	3.38	1142.00	2.00	1142.00	2.00	0.00	0.0000	Trapezoidal	6.000	34.000	0.0700	
22	Link-36	487.30	1121.90	0.00	1112.00	0.00	9.90	2.0300	Trapezoidal	3.000	15.000	0.0700	
23	Link-38	5.92	1199.50	0.00	1199.00	0.00	0.50	8.4500	Trapezoidal	3.000	15.000	0.0700	
24	Link-39	423.94	1238.00	0.00	1230.00	0.00	8.00	1.8900	Triangular	1.500	9.000	0.0700	
25	Link-40	537.85	1250.00	0.00	1238.00	0.00	12.00	2.2300	Triangular	1.500	9.000	0.0700	
26	Link-42	128.24	1322.30	0.00	1280.00	0.00	42.30	32.9900	Trapezoidal	2.000	14.000	0.0320	
27	Link-43	97.81	1280.00	0.00	1245.00	0.00	35.00	35.7800	Trapezoidal	2.000	14.000	0.0320	
28	Link-44	138.06	1245.00	0.00	1199.50	0.00	45.50	32.9600	Trapezoidal	2.000	14.000	0.0320	
29	Link-45	148.84	1283.00	0.00	1229.00	0.00	54.00	36.2800	Trapezoidal	2.000	14.000	0.0320	
30	Link-46	175.37	1229.00	0.00	1173.00	0.00	56.00	31.9300	Trapezoidal	2.000	14.000	0.0320	
31	Link-47	101.88	1173.00	0.00	1146.00	0.00	27.00	26.5000	Trapezoidal	2.000	14.000	0.0320	
32	Link-48	108.42	1146.00	0.00	1121.90	0.00	24.10	22.2300	Trapezoidal	2.000	14.000	0.0320	
33	Link-49	143.47	1295.50	0.00	1248.00	0.00	47.50	33.1100	Trapezoidal	2.000	14.000	0.0320	
34	Link-50	58.55	1248.00	0.00	1230.00	0.00	18.00	30.7400	Trapezoidal	2.000	14.000	0.0320	
35	Link-51	183.37	1204.00	0.00	1152.00	0.00	52.00	28.3600	Trapezoidal	2.000	14.000	0.0320	
36	Link-53	628.78	1175.00	0.00	1152.00	0.00	23.00	3.6600	Trapezoidal	3.000	15.000	0.0700	
37	Link-54	680.76	1334.00	0.00	1279.00	0.00	55.00	8.0800	Triangular	2.000	12.000	0.0700	
38	Link-56	383.29	1192.00	0.00	1160.00	19.00	32.00	8.3500	Triangular	1.500	9.000	0.0700	
39	Link-57	1094.69	1246.00	0.00	1202.00	0.00	44.00	4.0200	Triangular	1.500	9.000	0.0700	
40	Link-58	398.23	1295.00	0.00	1262.00	0.00	33.00	8.2900	Triangular	1.500	3.000	0.0700	
41	Link-59	290.45	1318.00	0.00	1295.00	0.00	23.00	7.9200	Triangular	1.500	3.000	0.0700	
42	Link-60	512.49	1216.00	8.00	1199.50	0.00	16.50	3.2200	Trapezoidal	3.000	15.000	0.0700	
43	Link-61	324.08	1230.00	0.00	1208.00	0.00	22.00	6.7900	Triangular	1.500	9.000	0.0700	
44	Link-62	680.56	1336.00	0.00	1322.30	0.00	13.70	2.0100	Triangular	1.500	9.000	0.0700	
45	Link-65	680.29	1321.00	0.00	1307.00	0.00	14.00	2.0600	Triangular	1.500	9.000	0.0700	

Channel Results

SN	Element ID	Peak Flow	Time of Peak Flow Occurrence	Design Flow Capacity	Peak Flow/ Design Flow Ratio	Peak Flow Velocity	Travel Time	Peak Flow Depth	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged	Fr Nur
		(cfs)	(days hh:mm)	(cfs)		(ft/sec)	(min)	(ft)		(min)	
1	Link-06	1.81	0 12:08	16.60	0.11	1.43	8.82	0.64	0.43	0.00	
2	Link-08	1.69	0 12:05	14.48	0.12	0.58	13.40	1.07	0.72	0.00	
3	Link-09	4.78	0 12:02	14.78	0.32	2.02	1.97	0.91	0.62	0.00	
4	Link-10	8.56	0 12:05	637.06	0.01	6.63	0.38	0.21	0.11	0.00	
5	Link-100	13.60	0 12:08	32.56	0.42	3.65	5.84	1.24	0.83	0.00	
6	Link-101	4.48	0 12:02	70.52	0.06	1.10	11.66	1.70	0.57	0.00	
7	Link-102	11.76	0 12:02	185.15	0.06	3.29	3.33	0.81	0.27	0.00	
8	Link-103	11.17	0 12:07	145.08	0.08	2.03	3.16	1.15	0.39	0.00	
9	Link-104	14.27	0 12:09	122.83	0.12	2.78	5.32	1.02	0.34	0.00	
10	Link-108	17.80	0 12:09	513.70	0.03	4.74	2.55	1.16	0.40	0.00	
11	Link-109	30.09	0 12:06	173.03	0.17	5.32	7.35	1.07	0.36	0.00	
12	Link-11	20.02	0 12:08	665.11	0.03	9.55	0.28	0.30	0.16	0.00	
13	Link-110	29.28	0 12:08	502.87	0.06	5.42	0.37	1.82	0.62	0.00	
14	Link-12	28.38	0 12:08	627.99	0.05	2.89	0.97	1.17	0.59	0.00	
15	Link-13	1.95	0 12:02	8.90	0.22	31.66	0.29	0.83	0.56	0.00	
16	Link-14	13.52	0 12:08	22.98	0.59	3.09	1.33	1.20	0.81	0.00	
17	Link-24	2.95	0 12:06	16.35	0.18	14.20	1.15	0.77	0.52	0.00	
18	Link-27	1.59	0 12:06	16.43	0.10	1.39	5.21	0.59	0.41	0.00	
19	Link-30	6.01	0 12:15	46.66	0.13	7.18	0.47	0.53	0.35	0.00	
20	Link-34	2.06	0 12:07	15.97	0.13	1.44	8.29	0.67	0.46	0.00	
21	Link-35	53.26	0 12:10	112.87	0.47	3.87	0.01	1.12	0.19	0.00	
22	Link-36	73.03	0 12:15	113.83	0.64	3.87	2.10	2.41	0.80	0.00	
23	Link-38	15.75	0 12:07	232.09	0.07	2.56	0.04	1.18	0.40	0.00	
24	Link-39	5.85	0 12:08	15.69	0.37	1.84	3.84	1.02	0.69	0.00	
25	Link-40	0.96	0 12:03	17.06	0.06	0.50	17.93	0.87	0.59	0.00	
26	Link-42	8.44	0 12:05	647.78	0.01	7.68	0.28	0.14	0.09	0.00	
27	Link-43	10.81	0 12:06	674.70	0.02	8.46	0.19	0.17	0.10	0.00	
28	Link-44	12.28	0 12:06	647.50	0.02	3.01	0.76	0.58	0.30	0.00	
29	Link-45	12.04	0 12:06	679.37	0.02	8.82	0.28	0.21	0.11	0.00	
30	Link-46	13.98	0 12:07	637.36	0.02	8.02	0.36	0.26	0.13	0.00	
31	Link-47	19.98	0 12:08	580.64	0.03	9.48	0.18	0.31	0.16	0.00	
32	Link-48	21.74	0 12:08	531.77	0.04	2.24	0.81	1.16	0.58	0.00	
33	Link-49	1.43	0 12:11	648.99	0.00	2.30	1.04	0.12	0.06	0.00	
34	Link-50	10.46	0 12:08	625.38	0.02	2.12	0.46	0.76	0.39	0.00	
35	Link-51	14.94	0 12:09	600.63	0.02	1.63	1.87	1.12	0.56	0.00	
36	Link-53	32.73	0 12:13	152.74	0.21	2.73	3.84	1.84	0.61	0.00	
37	Link-54	13.16	0 12:06	69.91	0.19	3.86	2.94	1.05	0.53	0.00	
38	Link-56	14.91	0 12:09	33.00	0.45	11.80	0.54	1.10	0.74	0.00	
39	Link-57	6.10	0 12:06	22.90	0.27	1.93	9.45	1.08	0.73	0.00	
40	Link-58	3.86	0 12:05	9.01	0.43	2.74	2.42	1.19	0.79	0.00	
41	Link-59	1.84	0 12:04	8.81	0.21	1.99	2.43	0.96	0.64	0.00	
42	Link-60	0.00	0 00:00	143.30	0.00	0.00		0.49	0.17	0.00	
43	Link-61	5.61	0 12:11	29.76	0.19	1.41	3.83	1.15	0.77	0.00	
44	Link-62	8.97	0 12:05	16.20	0.55	10.95	1.04	0.82	0.55	0.00	

Pipe Input

SN	Element ID	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (in)	Pipe Width (in)	Manning's Roughness
1	Link-111	189.94	1142.00	0.00	1141.00	0.00	1.00	0.5300	Rectangular	36.000	36.000	0.0240
2	Link-21	43.15	1284.00	0.00	1283.00	0.00	1.00	2.3200	CIRCULAR	18.000	18.000	0.0240
3	Link-29	12.00	1211.00	0.00	1210.00	0.00	1.00	8.3300	CIRCULAR	24.000	24.000	0.0240
4	Link-55	120.00	1112.00	0.00	1078.00	0.00	34.00	28.3300	CIRCULAR	69.960	69.960	0.0240
5	Link-75	12.51	1230.00	0.00	1229.00	0.00	1.00	7.9900	CIRCULAR	18.000	18.000	0.0240

Pipe Results

SN	Element ID	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Design Flow Capacity (cfs)	Peak Flow/ Design Flow Ratio	Peak Flow Velocity (ft/sec)	Travel Time (min)	Peak Flow Depth (ft)	Peak Flow Depth/ Total Depth Ratio	Total Time Surcharged (min)	F Nu
1	Link-111	17.07	0 12:14	66.75	0.26	1.26	2.51	2.26	0.77	0.00	
2	Link-21	7.44	0 12:06	17.32	0.43	5.85	0.12	0.59	0.39	0.00	
3	Link-29	6.03	0 12:14	70.75	0.09	1.36	0.15	1.33	0.67	0.00	
4	Link-55	120.91	0 12:17	2265.41	0.05	4.95	0.40	3.85	0.67	0.00	
5	Link-75	10.33	0 12:08	32.17	0.32	6.37	0.03	0.76	0.52	0.00	

Storage Nodes

Storage Node : Stor-01

Input Data

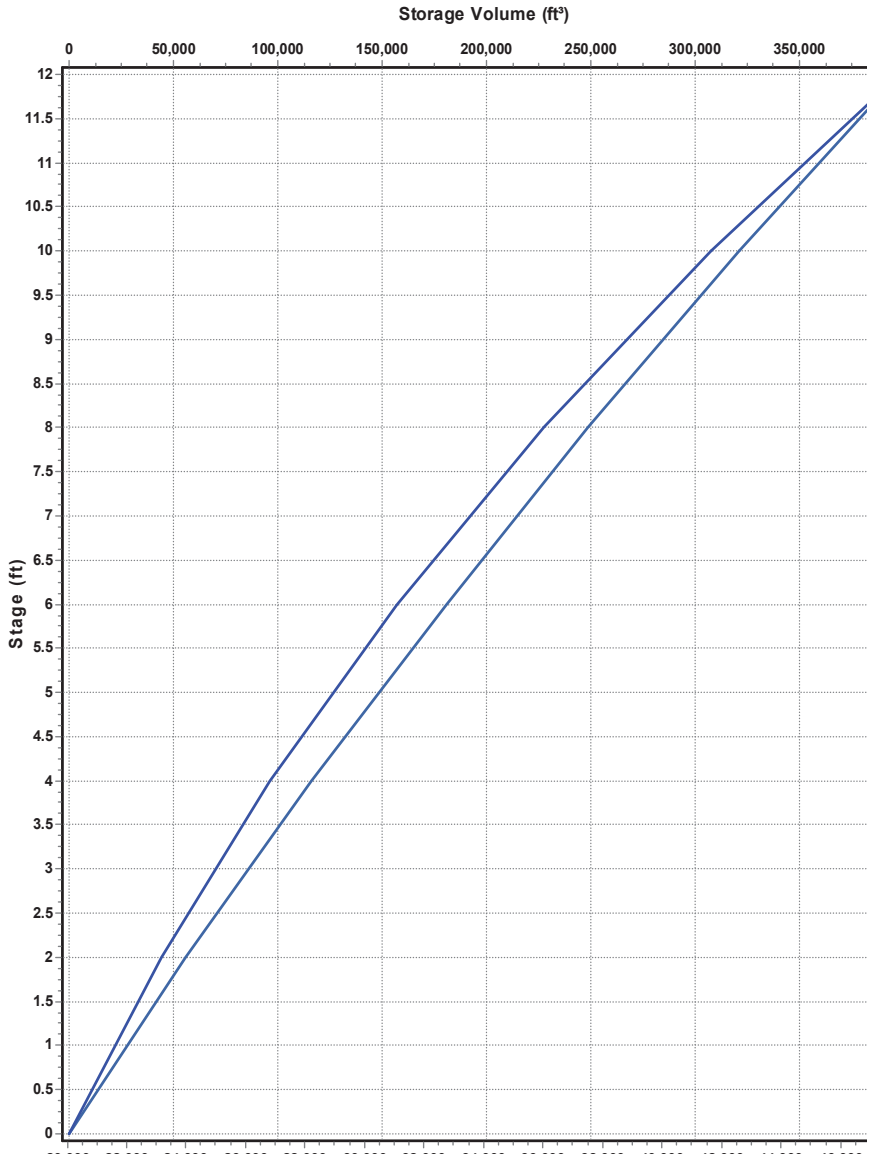
Invert Elevation (ft)	1078.00
Max (Rim) Elevation (ft)	1088.00
Max (Rim) Offset (ft)	10.00
Initial Water Elevation (ft)	1078.00
Initial Water Depth (ft)	0.00
Ponded Area (ft²)	0.00
Evaporation Loss	0.00

Storage Area Volume Curves

Storage Curve : Storage-01

Stage (ft)	Storage Area (ft²)	Storage Volume (ft³)
0	20064	0
2	24000	44064
4	28224	96288
6	32736	157248
8	37536	227520
10	42624	307680
12	48000	398304

Storage Area Volume Curves



Storage Node : Stor-01 (continued)

Output Summary Results

Peak Inflow (cfs)	141.22
Peak Lateral Inflow (cfs)	0
Peak Outflow (cfs)	0
Peak Exfiltration Flow Rate (cfm)	0
Max HGL Elevation Attained (ft)	1088
Max HGL Depth Attained (ft)	10
Average HGL Elevation Attained (ft)	1086.82
Average HGL Depth Attained (ft)	8.82
Time of Max HGL Occurrence (days hh:mm)	0 13:13
Total Exfiltration Volume (1000-ft^3)	0
Total Flooded Volume (ac-in)	73.72
Total Time Flooded (min)	647
Total Retention Time (sec)	0

Exhibit 3. NOAA Atlas 14 Rainfall Frequency Estimates

NOAA Atlas 14, Volume 1, Version 5 BULLHEAD CITY
Station ID: 02-1050
Location name: Bullhead City, Arizona, USA*
Latitude: 35.1411°, Longitude: -114.5678°
Elevation:
Elevation (station metadata): 540 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	**0.128** (0.107-0.156)	**0.173** (0.144-0.211)	**0.259** (0.215-0.316)	**0.328** (0.270-0.400)	**0.432** (0.350-0.528)	**0.521** (0.416-0.640)	**0.622** (0.487-0.769)	**0.736** (0.564-0.919)	**0.912** (0.676-1.16)	**1.07** (0.772-1.38)
10-min	**0.195** (0.163-0.237)	**0.263** (0.219-0.322)	**0.393** (0.327-0.480)	**0.499** (0.410-0.609)	**0.657** (0.533-0.804)	**0.792** (0.633-0.973)	**0.946** (0.741-1.17)	**1.12** (0.857-1.40)	**1.39** (1.03-1.76)	**1.63** (1.17-2.09)
15-min	**0.241** (0.202-0.294)	**0.326** (0.272-0.399)	**0.488** (0.405-0.595)	**0.618** (0.509-0.755)	**0.815** (0.660-0.997)	**0.982** (0.785-1.21)	**1.17** (0.919-1.45)	**1.39** (1.06-1.74)	**1.72** (1.28-2.19)	**2.02** (1.46-2.60)
30-min	**0.325** (0.271-0.396)	**0.440** (0.366-0.537)	**0.656** (0.546-0.802)	**0.833** (0.685-1.02)	**1.10** (0.889-1.34)	**1.32** (1.06-1.62)	**1.58** (1.24-1.95)	**1.87** (1.43-2.34)	**2.32** (1.72-2.94)	**2.72** (1.96-3.49)
60-min	**0.402** (0.336-0.490)	**0.544** (0.453-0.665)	**0.812** (0.675-0.992)	**1.03** (0.848-1.26)	**1.36** (1.10-1.66)	**1.64** (1.31-2.01)	**1.96** (1.53-2.42)	**2.31** (1.77-2.89)	**2.87** (2.12-3.64)	**3.36** (2.43-4.32)
2-hr	**0.482** (0.402-0.585)	**0.646** (0.540-0.783)	**0.956** (0.791-1.16)	**1.21** (0.992-1.47)	**1.60** (1.29-1.94)	**1.94** (1.54-2.35)	**2.33** (1.81-2.83)	**2.77** (2.10-3.40)	**3.44** (2.53-4.29)	**4.04** (2.90-5.10)
3-hr	**0.533** (0.451-0.638)	**0.711** (0.599-0.850)	**1.04** (0.868-1.24)	**1.31** (1.09-1.56)	**1.70** (1.39-2.04)	**2.05** (1.65-2.46)	**2.44** (1.93-2.94)	**2.90** (2.24-3.52)	**3.61** (2.71-4.45)	**4.25** (3.11-5.28)
6-hr	**0.640** (0.550-0.752)	**0.848** (0.728-0.997)	**1.22** (1.04-1.43)	**1.52** (1.29-1.78)	**1.96** (1.63-2.30)	**2.33** (1.91-2.74)	**2.74** (2.21-3.24)	**3.19** (2.52-3.80)	**3.92** (3.02-4.74)	**4.58** (3.44-5.60)
12-hr	**0.754** (0.652-0.869)	**1.00** (0.867-1.15)	**1.43** (1.23-1.64)	**1.76** (1.52-2.02)	**2.24** (1.90-2.58)	**2.64** (2.21-3.04)	**3.06** (2.52-3.55)	**3.51** (2.85-4.11)	**4.21** (3.33-5.00)	**4.85** (3.76-5.84)
24-hr	**0.970** (0.802-1.17)	**1.27** (1.05-1.53)	**1.74** (1.44-2.10)	**2.11** (1.75-2.54)	**2.64** (2.17-3.17)	**3.07** (2.51-3.68)	**3.52** (2.84-4.23)	**4.00** (3.20-4.82)	**4.69** (3.69-5.65)	**5.24** (4.08-6.36)
2-day	**1.02** (0.862-1.22)	**1.33** (1.13-1.58)	**1.81** (1.53-2.16)	**2.19** (1.85-2.62)	**2.72** (2.29-3.26)	**3.14** (2.62-3.77)	**3.58** (2.96-4.31)	**4.05** (3.30-4.91)	**4.71** (3.77-5.73)	**5.30** (4.15-6.41)
3-day	**1.07** (0.912-1.26)	**1.39** (1.18-1.64)	**1.90** (1.61-2.23)	**2.29** (1.95-2.69)	**2.82** (2.40-3.32)	**3.25** (2.74-3.84)	**3.70** (3.10-4.38)	**4.17** (3.45-4.97)	**4.84** (3.94-5.80)	**5.40** (4.33-6.48)
4-day	**1.12** (0.962-1.30)	**1.45** (1.24-1.69)	**1.98** (1.70-2.30)	**2.38** (2.05-2.76)	**2.93** (2.51-3.39)	**3.37** (2.87-3.90)	**3.82** (3.24-4.45)	**4.30** (3.60-5.02)	**4.97** (4.11-5.87)	**5.50** (4.50-6.55)
7-day	**1.26** (1.08-1.46)	**1.64** (1.42-1.90)	**2.23** (1.92-2.57)	**2.67** (2.29-3.08)	**3.26** (2.79-3.76)	**3.72** (3.18-4.29)	**4.20** (3.57-4.86)	**4.69** (3.95-5.45)	**5.39** (4.49-6.29)	**5.93** (4.89-6.96)
10-day	**1.33** (1.13-1.54)	**1.74** (1.48-2.01)	**2.39** (2.04-2.76)	**2.88** (2.45-3.31)	**3.54** (3.01-4.08)	**4.06** (3.45-4.69)	**4.60** (3.88-5.35)	**5.15** (4.32-6.00)	**5.95** (4.93-6.99)	**6.58** (5.41-7.81)
20-day	**1.56** (1.33-1.82)	**2.06** (1.75-2.39)	**2.82** (2.40-3.27)	**3.40** (2.89-3.95)	**4.17** (3.54-4.85)	**4.77** (4.02-5.55)	**5.37** (4.50-6.28)	**5.99** (4.99-7.03)	**6.82** (5.62-8.06)	**7.47** (6.11-8.90)
30-day	**1.82** (1.52-2.13)	**2.41** (2.01-2.82)	**3.33** (2.80-3.89)	**3.99** (3.35-4.64)	**4.86** (4.08-5.65)	**5.52** (4.62-6.44)	**6.18** (5.14-7.24)	**6.84** (5.67-8.04)	**7.71** (6.33-9.12)	**8.37** (6.82-9.95)
45-day	**2.06** (1.70-2.44)	**2.73** (2.26-3.23)	**3.79** (3.15-4.48)	**4.56** (3.78-5.42)	**5.58** (4.61-6.61)	**6.35** (5.21-7.53)	**7.13** (5.82-8.49)	**7.90** (6.40-9.45)	**8.93** (7.18-10.7)	**9.70** (7.74-11.7)
60-day	**2.26** (1.82-2.72)	**3.01** (2.42-3.64)	**4.20** (3.39-5.06)	**5.07** (4.07-6.10)	**6.21** (4.98-7.46)	**7.07** (5.64-8.48)	**7.94** (6.31-9.56)	**8.81** (6.96-10.7)	**9.97** (7.81-12.1)	**10.8** (8.40-13.3)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

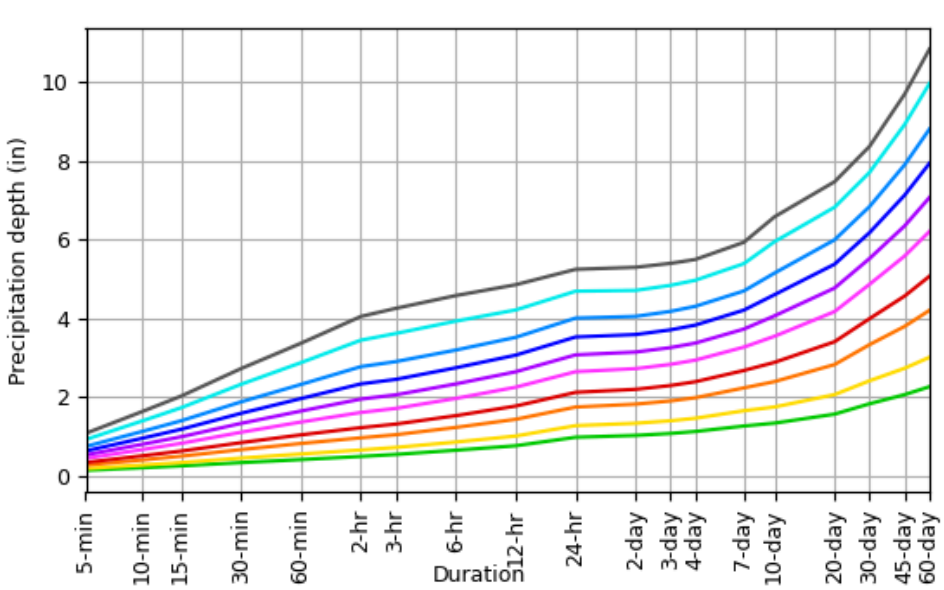
Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

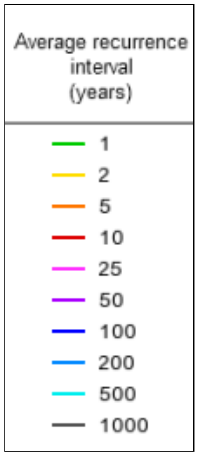
Please refer to NOAA Atlas 14 document for more information.

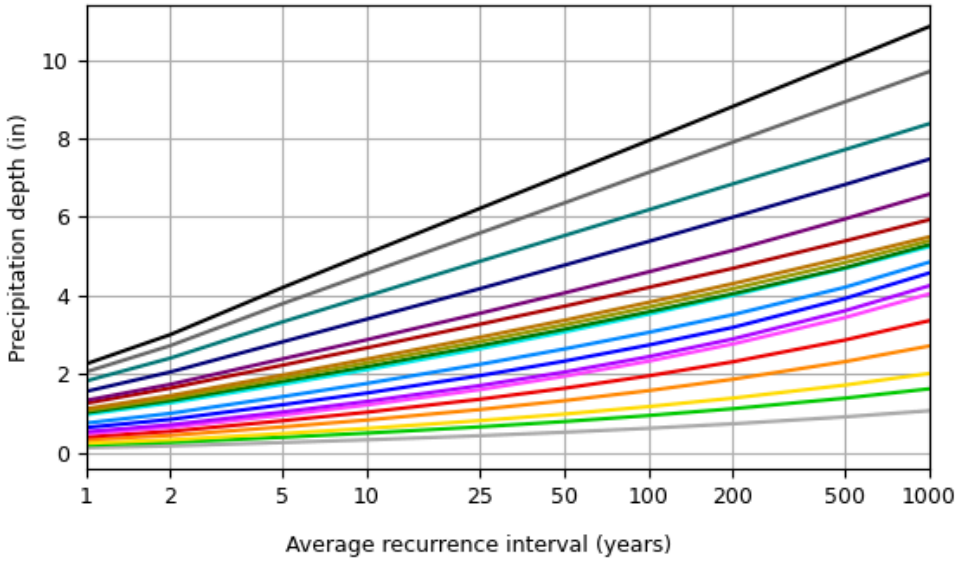
Back to Top

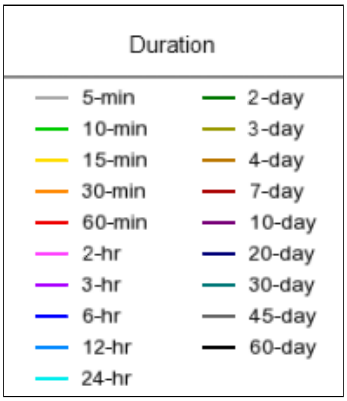
PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 35.1411°, Longitude: -114.5678°









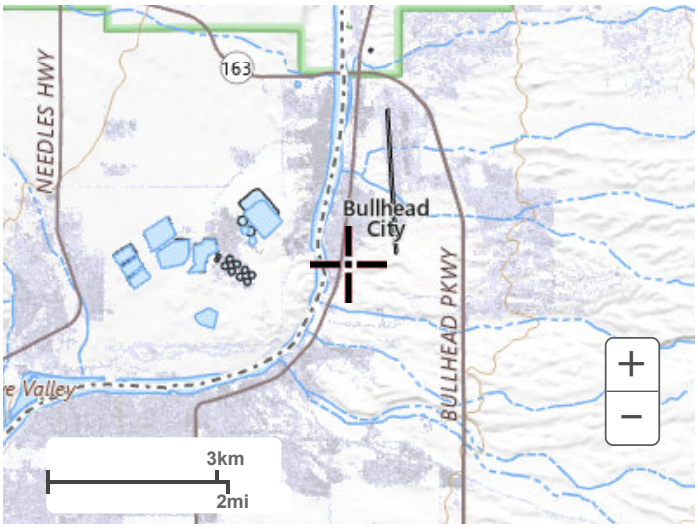
NOAA Atlas 14, Volume 1, Version 5

Created (GMT): Wed Dec 10 18:03:19 2025

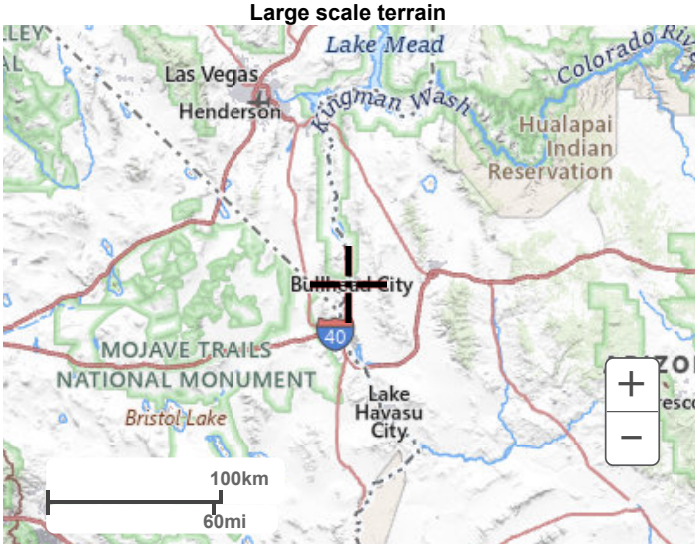
Back to Top

Maps & aerials

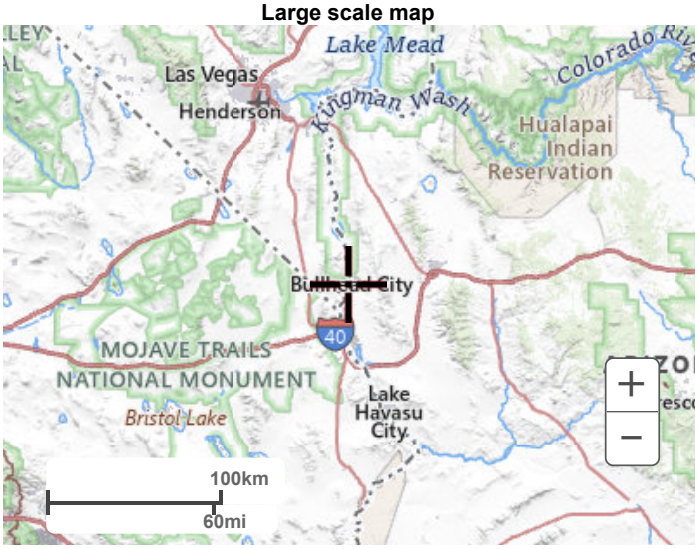
Small scale terrain



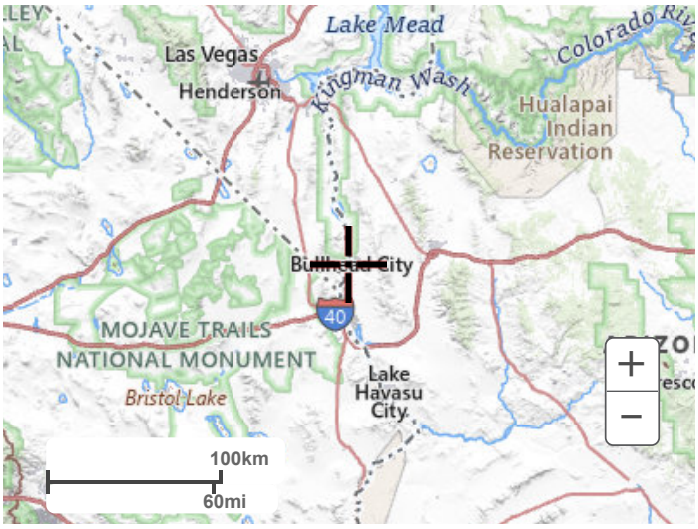
Large scale terrain



Large scale map



Large scale aerial



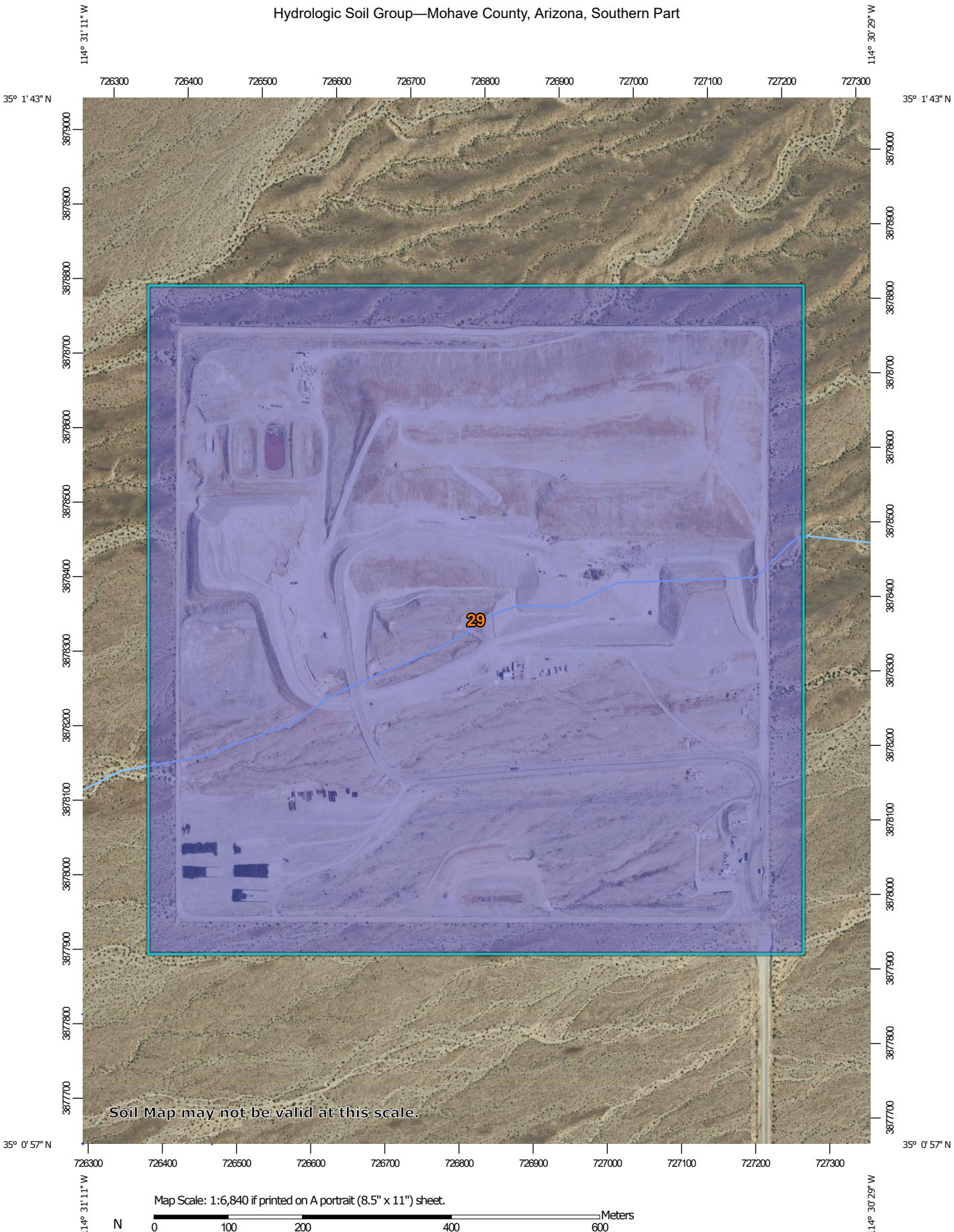
Back to Top

US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

Exhibit 4. NRCS Web Soil Survey

Hydrologic Soil Group—Mohave County, Arizona, Southern Part



Map Scale: 1:6,840 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 100 200 400 600

Feet: 0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Lines

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Soil Rating Points

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mohave County, Arizona, Southern Part
Survey Area Data: Version 21, Aug 26, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 17, 2020—May 21, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
29	Chuckawalla-Riverbend complex, 2 to 15 percent slopes	B	196.4	100.0%
Totals for Area of Interest			**196.4**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

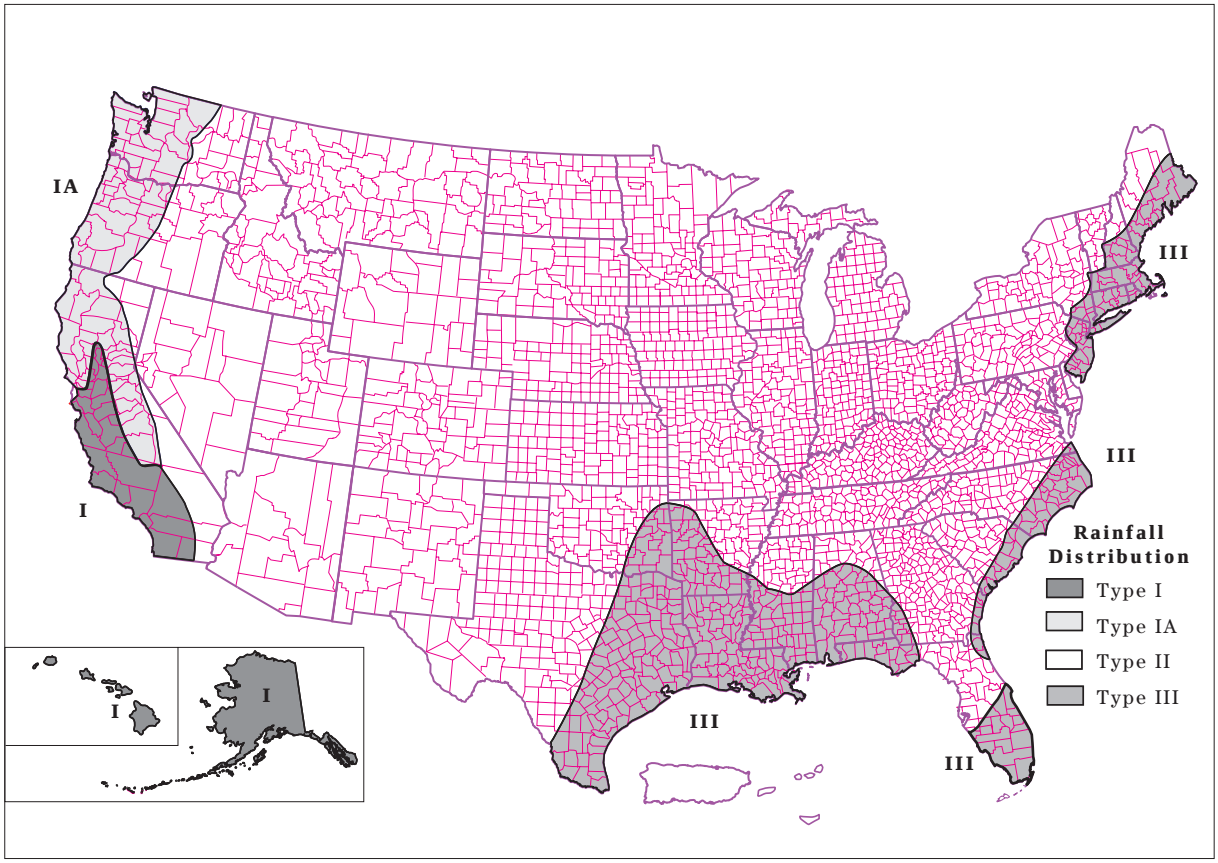
Exhibit 5. TR-55 Manual Data

Table 2-2d Runoff curve numbers for arid and semiarid rangelands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition [2/]	A [3/]	B	C	D
Herbaceous—mixture of grass, weeds, and low-growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak-aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor		66	74	79
	Fair		48	57	63
	Good		30	41	48
Pinyon-juniper—pinyon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

1 Average runoff condition, and I_a, = 0.2S. For range in humid regions, use table 2-2c.
2 Poor: <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: > 70% ground cover.
3 Curve numbers for group A have been developed only for desert shrub.

Figure B-2 Approximate geographic boundaries for NRCS (SCS) rainfall distributions



Rainfall data sources

This section lists the most current 24-hour rainfall data published by the National Weather Service (NWS) for various parts of the country. Because NWS Technical Paper 40 (TP-40) is out of print, the 24-hour rainfall maps for areas east of the 105th meridian are included here as figures B-3 through B-8. For the area generally west of the 105th meridian, TP-40 has been superseded by NOAA Atlas 2, the Precipitation-Frequency Atlas of the Western United States, published by the National Ocean and Atmospheric Administration.

East of 105th meridian

Hershfield, D.M. 1961. Rainfall frequency atlas of the United States for durations from 30 minutes to 24 hours and return periods from 1 to 100 years. U.S. Dept. Commerce, Weather Bur. Tech. Pap. No. 40. Washington, DC. 155 p.

West of 105th meridian

Miller, J.F., R.H. Frederick, and R.J. Tracey. 1973. Precipitation-frequency atlas of the Western United States. Vol. I Montana; Vol. II, Wyoming; Vol III, Colorado; Vol. IV, New Mexico; Vol V, Idaho; Vol. VI, Utah; Vol. VII, Nevada; Vol. VIII, Arizona; Vol. IX, Washington; Vol. X, Oregon; Vol. XI, California. U.S. Dept. of Commerce, National Weather Service, NOAA Atlas 2. Silver Spring, MD.

Alaska

Miller, John F. 1963. Probable maximum precipitation and rainfall-frequency data for Alaska for areas to 400 square miles, durations to 24 hours and return periods from 1 to 100 years. U.S. Dept. of Commerce, Weather Bur. Tech. Pap. No. 47. Washington, DC. 69 p.

Hawaii

Weather Bureau. 1962. Rainfall-frequency atlas of the Hawaiian Islands for areas to 200 square miles, durations to 24 hours and return periods from 1 to 100 years. U.S. Dept. Commerce, Weather Bur. Tech. Pap. No. 43. Washington, DC. 60 p.

Puerto Rico and Virgin Islands

Weather Bureau. 1961. Generalized estimates of probable maximum precipitation and rainfall-frequency data for Puerto Rico and Virgin Islands for areas to 400 square miles, durations to 24 hours, and return periods from 1 to 100 years. U.S. Dept. Commerce, Weather Bur. Tech. Pap. No. 42. Washington, DC. 94 P.

Exhibit 6. KHA Run-on Diversion Channel and Basin Design Report

FINAL TECHNICAL DRAINAGE MEMORANDUM

Mohave County Landfill Basin

Prepared for:

Mohave County Flood Control District
3250 Kino Avenue
Kingman, AZ 86402

Prepared by:

Kimley-Horn
1661 E. Camelback Road
Suite 400
Phoenix, Arizona 85016

191750020
December 2025

FINAL TECHNICAL DRAINAGE MEMORANDUM

MOHAVE COUNTY LANDFILL BASIN

DECEMBER 2025

Prepared By:

Kimley»Horn

Contents

1.0 Introduction....4
2.0 Project Location....4
3.0 Site Description and Proposed Development....4
4.0 FEMA Floodplain Classification....4
5.0 Offsite Drainage Description....8
Background....8
Proposed Offsite runoff Management....8
6.0 Hydrology....10
7.0 Hydraulics....10
8.0 References....10

Figures

Figure 1. Location Map....5
Figure 2. Vicinity Map....6
Figure 3. FEMA FIRM Panel 4770H....7
Figure 4. Offsite Drainage Map....9

Appendices

Appendix A – Hydrology
Appendix B – Hydraulics

1.0 INTRODUCTION

The purpose of this memorandum is to document the drainage design associated with the Mohave County Landfill Basin and summarize hydraulic analysis. The project location currently is located in the floodplain and the purpose of these improvements is to mitigate flooding and help convey offsite runoff from the landfill.

The infrastructure associated with the improvements will include:

- Detention basin to capture and control offsite flow and direct it south.
- Culvert to convey flow under Robie Road.
- Concrete ford crossing to convey flow over Robie Road.

This memorandum has been prepared based on the following criteria:

- Drainage Design Manual for Mohave County (September 2022) (DDMMC)

2.0 PROJECT LOCATION

The Site is located in Mohave Valley, approximately 4.5 miles east of Fort Mohave, AZ. The Site is located north of County Highway 153 and east of Interstate 95 off Robie Road. The proposed basin will run along the east boundary of the site and the culvert will cross Robie Road at the southeast corner of the property. The property adjacent to the Site is owned by Arizona State Land Department (ASLD) to the west and south, and by the Bureau of Land Management to the east.

More specifically, the Site lies within Section 21 of Township 19 North, Range 21 West of the Gila and Salt River Meridian, APN: 221-33-010. See **Figure 1** for a Location Map and **Figure 2** for a Vicinity Map.

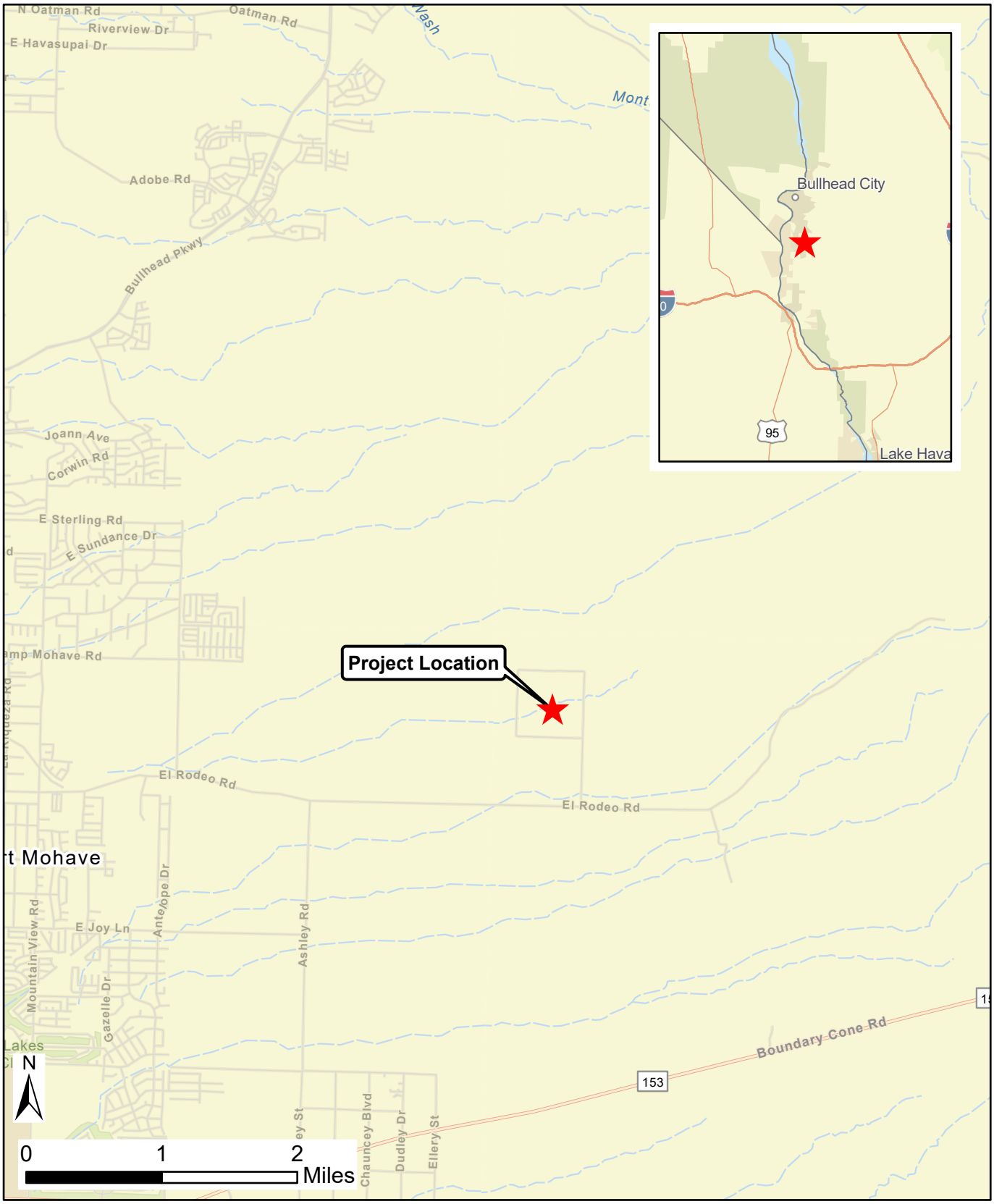
3.0 SITE DESCRIPTION AND PROPOSED DEVELOPMENT

There is currently no existing drainage infrastructure within the project limits.

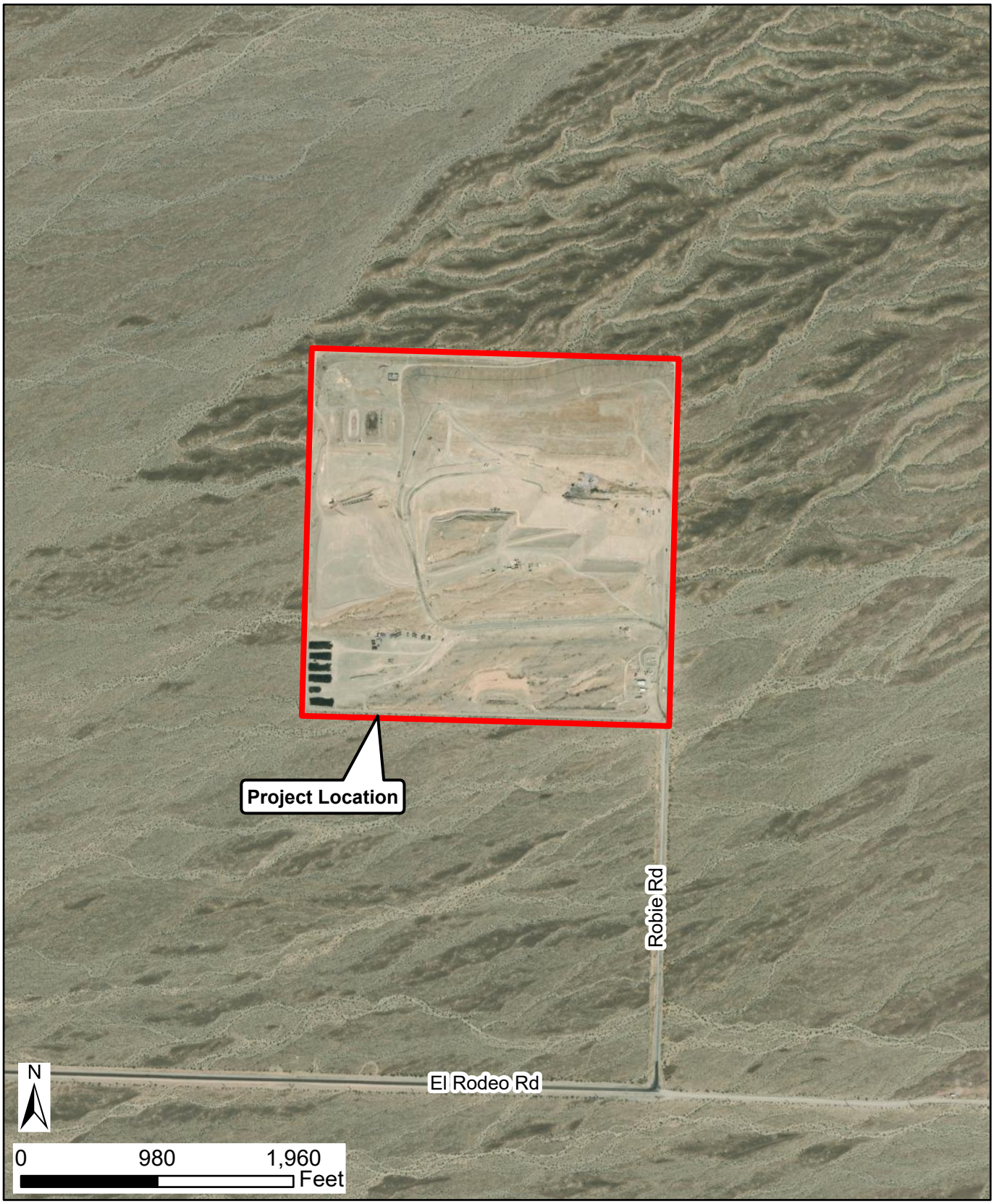
The basin and culvert will be constructed to capture offsite runoff and reduce the amount of flooding in the landfill area and direct runoff to the south. In large storm events the Ford crossing will provide stabilization for the road when the basin overflows and weirs over the road.

4.0 FEMA FLOODPLAIN CLASSIFICATION

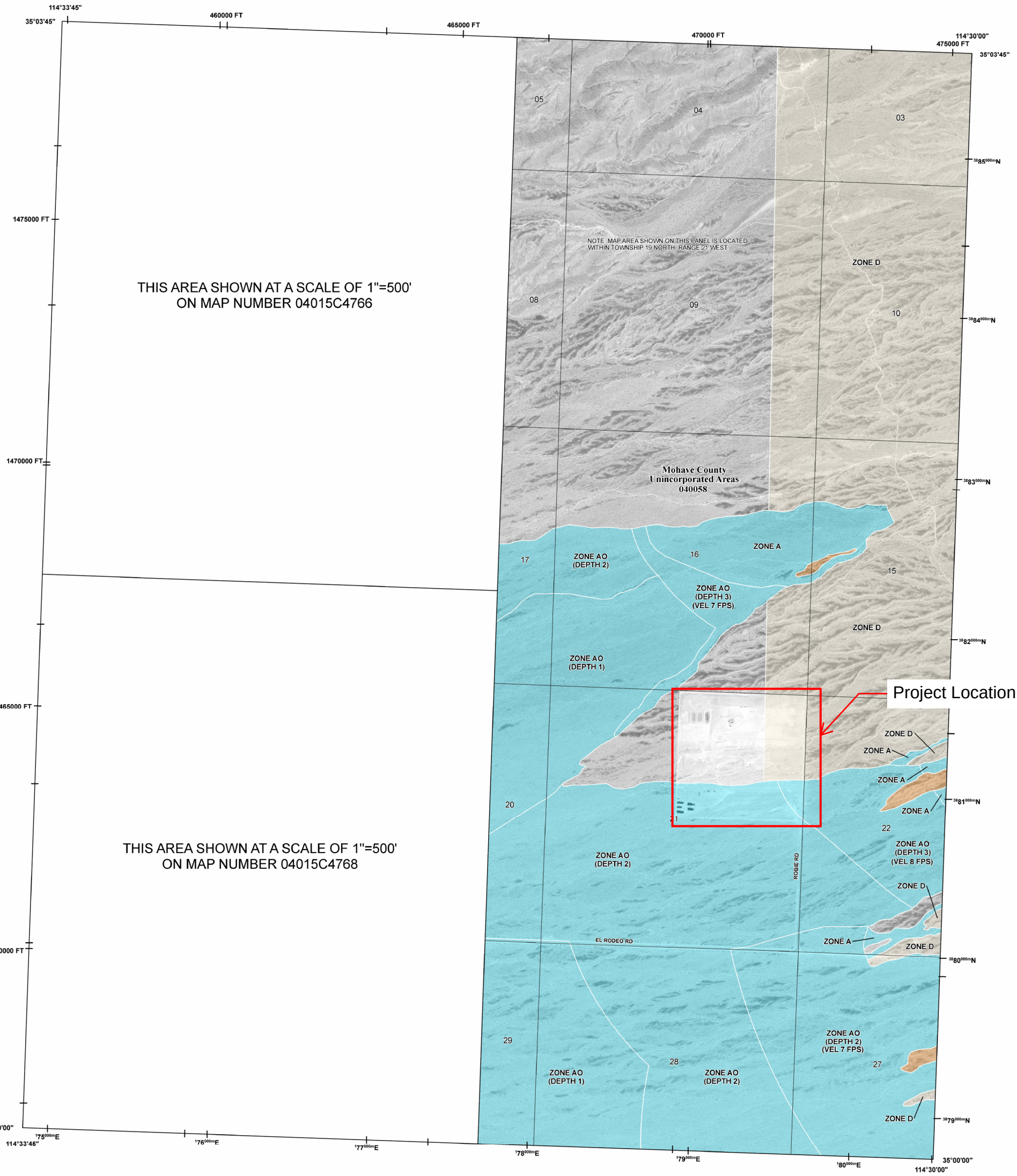
The project is in Flood Insurance Rate Map (FIRM) for Mohave County, Arizona and incorporated areas, Panel Number 04015C4770H, revised December 2, 2015. The project improvements are located in Zone “X” (shaded) and Zone AO. The FIRM Panels are included as **Figure 3**.



Kimley»Horn Expect More. Experience Better.	**Mohave Valley Landfill Channel**	**Mohave County, AZ**
	Figure 1. Location Map	



Kimley»Horn Expect More. Experience Better.	Mohave Valley Landfill Channel	Mohave County, AZ
	Figure 2. Vicinity Map	



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT HTTP://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) *Zone A, V, A99*
	With BFE or Depth *Zone AE, AO, AH, VE, AR*
	Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
	Future Conditions 1% Annual Chance Flood Hazard *Zone X*
	Area with Reduced Flood Risk due to Levee See Notes *Zone X*
OTHER AREAS	NO SCREEN Areas of Minimal Flood Hazard *Zone X*
	Area of Undetermined Flood Hazard *Zone D*
GENERAL STRUCTURES	Channel, Culvert or Storm Sewer
	Accredited or Provisionally Accredited Levee, Dike or Floodwall
	Non-accredited Levee, Dike or Floodwall
	(E) 18.2 Cross Sections with 1% Annual Chance
	17.5 Water Surface Elevation (BFE)
	(8) Coastal Transect
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature
	513 Base Flood Elevation Line (BFE)
OTHER FEATURES	Limit of Study
	Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Users may determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was derived from digital orthophotography collected by Keeney Aerial Mapping Inc. flown 12/6/2009-12/8/2009 with .33' ground sample distance, and from digital orthophotography collected by the U.S. Department of Agriculture Farm Service Agency flown in 2013 and produced with a 1-meter ground sample distance.

SCALE

N

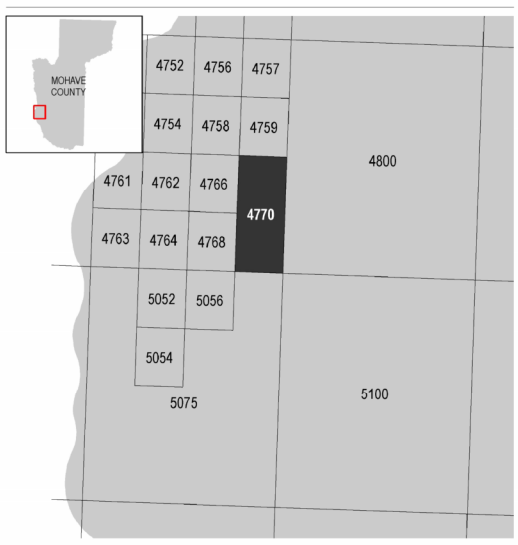
Map Projection:
Universal Transverse Mercator 12N; North American Datum 1983;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 1,000 feet 1:12,000

0 1,000 2,000 4,000 Feet

0 250 500 1,000 Meters

PANEL LOCATOR



FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

MOHAVE COUNTY, ARIZONA
and Incorporated Areas
Panel 4770 of 6700

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
MOHAVE COUNTY	040058	4770	H

VERSION NUMBER
2.3.2.1

MAP NUMBER
04015C4770H

MAP REVISED
DECEMBER 2, 2015

5.0 OFFSITE DRAINAGE DESCRIPTION

BACKGROUND

The Mohave County Landfill is impacted by significant offsite runoff from the east. Initially, the design solution proposed an onsite channel that would wrap around the east and south edges of the landfill property, with an outfall to the west. This design was brought to 95% plans and CLOMR but was ultimately not pursued to final design due to the high associated costs. Instead, a basin option was selected for its lower construction cost and the advantage of repurposing the excavated material for landfill expansion.

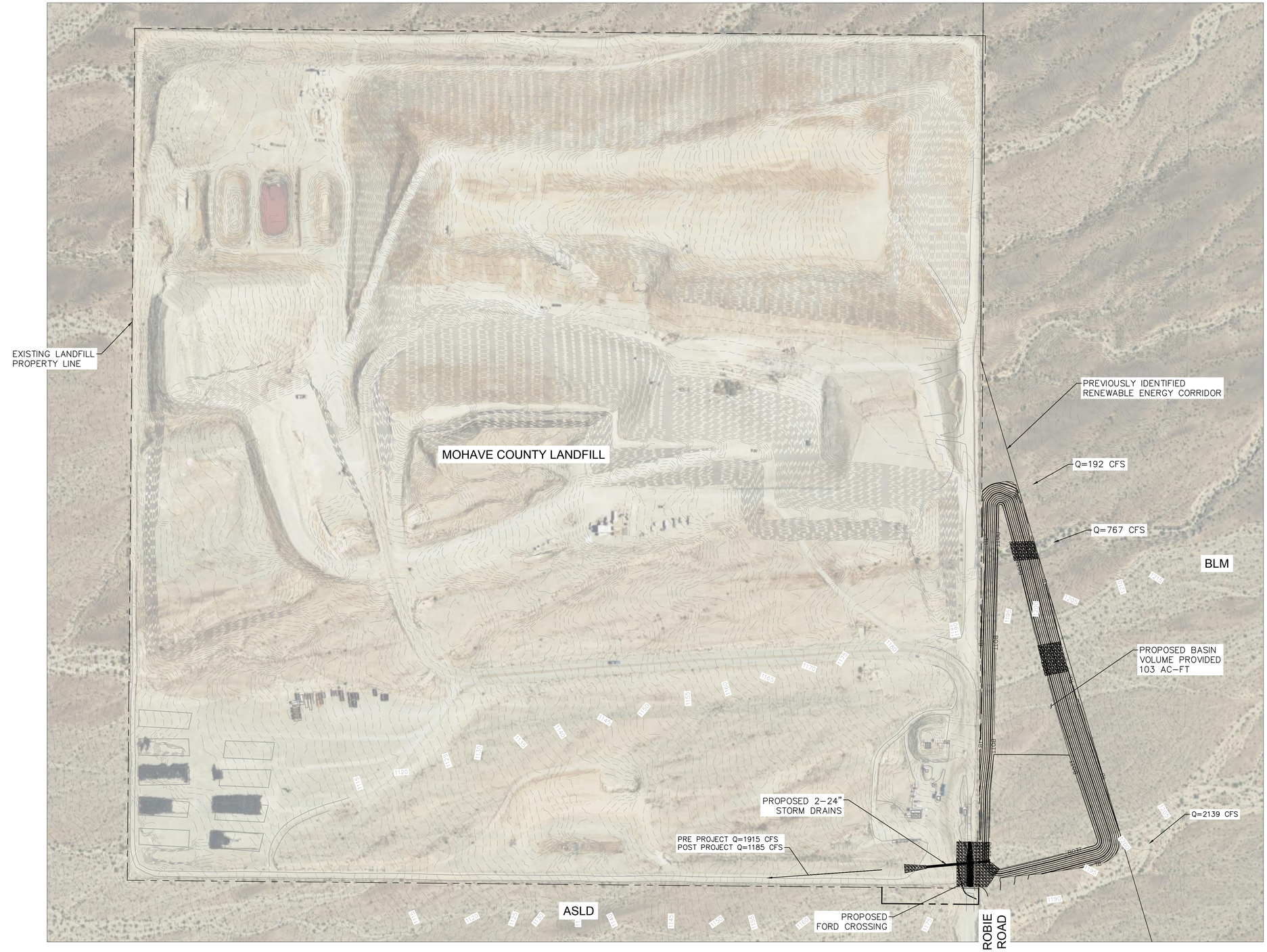
PROPOSED OFFSITE RUNOFF MANAGEMENT

The detention basin design for the Mohave County Landfill will capture offsite runoff originating from the east side of the property. Two (2) culverts will be installed at the south end of the basin and property to discharge runoff to the southwest, allowing it to follow its historical path. In the event of a large storm and basin overtopping, the ford crossing on Robie Road will help stabilize the road and direct runoff to the southwest, away from the landfill operations area. Refer to **Figure 4** for the Overall Drainage Map.

FIGURE 4. OVERALL DRAINAGE MAP

NORTH

GRAPHIC SCALE IN FEET
0 75 150 300



K:\PHX_WaterResources\191750020 - Mohave County Landfill Basin\CADD\Exhibits\Overall drainage exhibit\Figure 4 Overall drainage map.dwg Dec 15, 2025 Bob.Robinson
XREFs: 20ft_191750020_SC-191750020_SRC-191750020_XTOP-191750020

6.0 HYDROLOGY

Hydrology for the project was taken from the FLO-2D model developed by JE Fuller as part of the Mohave Valley Risk MAP project (FEMA Case No. 11-09-0704S) in August 2011. Additional information was provided in conceptual reports prepared by WEST.

The worst-case scenario FLO-2D model was used to determine the peak discharges entering the basin along the east property line. These peak discharges represent the maximum flow that could reach the basin from the active alluvial fan. Refer to **Appendix A** for the inflow cross-section locations map from the FLO-2D model and excerpts from the WEST report. All runoff entering the basin will discharge to the southwest along its historical flow path, either through the weir or the culvert.

7.0 HYDRAULICS

The hydraulics for this detention basin design were modeled in PCSWMM to size the basin, culverts, and weir length. The inflow hydrograph from the FLO-2D model was imported into PCSWMM to accurately represent the runoff from the design storm. This allowed us to size the detention basin and pipes effectively to maintain a controlled weir length that fits within the site. Refer to **Appendix B** for PCSWMM results.

8.0 REFERENCES

Flood Control District of Maricopa County, *Drainage Design Manual for Maricopa County, Arizona – Hydrology,* revised 2018.

Flood Control District of Maricopa County, *Drainage Design Manual for Maricopa County, Arizona – Hydraulics,* revised 2018.

Flood Control District of Maricopa County, *Drainage Policies and Standards for Maricopa County, Arizona*, revised 2018.

Flood Control District of Mohave County, *Drainage Design Manual for Mohave County, Arizona*, September 2022.

FLO-2D model developed by JE Fuller as part of the Mohave Valley Risk MAP project (FEMA Case No. 11-09-0704S) in August 2011

Appendix A – Hydrology

- Excerpts from WEST Report
- FLO-2D cross sections

MOHAVE VALLEY LANDFILL DRAINAGE IMPROVEMENTS

CONTRACT 12-PS-08-02

PHASE I AND II DESIGN UPDATE

Date: March 11, 2016

To: Randall Gremlich, Project Manager – Mohave County FCD

From: Brent Travis, Project Manager – WEST Consultants, Inc.
Suzie Monk – WEST Consultants, Inc.

Background

WEST has been tasked with a conceptual analysis and design of drainage channels around the Mohave Valley landfill. Phase I addresses local flow into the landfill by designing a diversion channel to convey the 100-year flow originating in Wash A on the east side of the property south and away from the property. Phase II investigates constructing another, much longer, diversion channel to divert flow around the southern portion of the landfill that is currently designated as floodplain. The goal of Phase II is to minimize the property area that is designated as floodplain and a CLOMR will be needed. Both tasks account for how water will exit the property with the overarching goal to keep return flow depths below current conditions.

Design Alternatives

HEC-RAS (v.4.1.0) was used to evaluate different alternatives for creating the channels for Phase I and II. The alternatives and tentative results will be presented in this section.

Inflow hydrographs were determined from the 26 FLO-2D models developed by J.E. Fuller and finalized in 2014 (Fuller 2014). These models accounted for numerous scenarios, including "with" and "without" levee conditions, 6-hour versus 24-hour storms, and other factors. J.E. Fuller used these models to determine the most extreme floodplain limits throughout the region of study. However, investigation by WEST found that in the vicinity of the landfill, only six of these models were needed to determine the worst case scenario.

With the six dominating models identified, inflows were determined by placing floodplain cross sections along the south and east landfill property boundaries. These floodplain cross sections track all the flow that goes through the designated cells in the desired direction, outputting peak flows as well as hydrographs for each cross section.

To ensure that the return flows do not worsen existing conditions in Phase I (the entirety of which is out of the floodplain), the outflow hydrograph was compared to the current conditions hydrograph.

To ensure that the return flows do not worsen existing conditions in Phase II, the FEMA floodplain at the west property boundary as determined by JE Fuller (2014) was considered. With a designation of AO2, the floodplain in the area is considered "shallow flooding" with depths between 1.5 to 2.5 feet. Hence, return flows along the west property were must meet two requirements:

1. The extent of return flow cannot increase the floodplain limits to the north;
2. The depth of flow must be less than or equal to 2.5 feet.

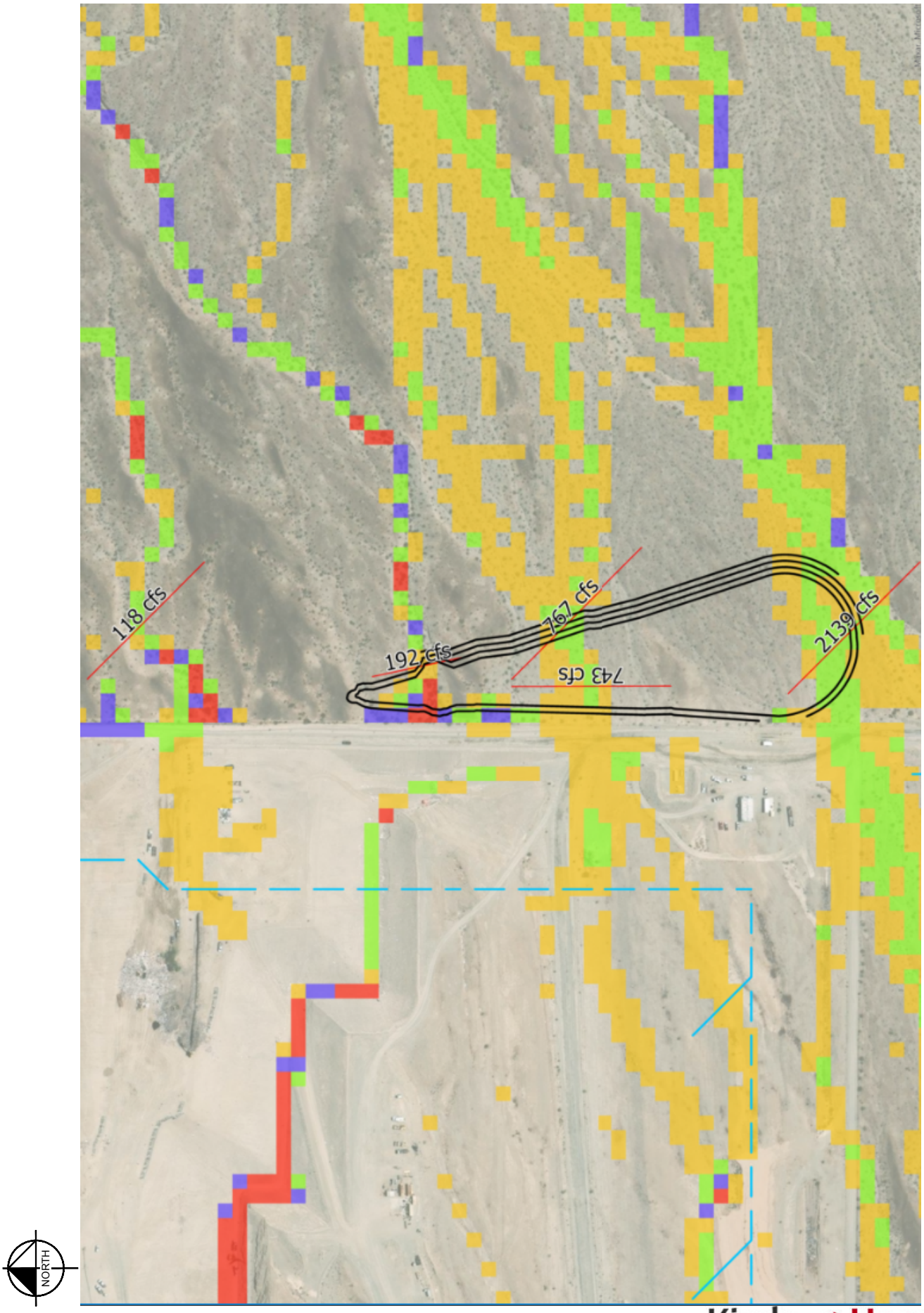
- The project will produce approximately 50,000 cubic yards of cut material. Stockpiling of the removed material will is an important consideration for the project.

- A FEMA representative should be contacted as soon to discuss the project and ensure that the design constraints will be acceptable to them.

Reference

JE Fuller (2014) "Mohave Vally [sic] Risk MAP Project Technical Support Data Notebook", FEMA Case No. 11-09-0704S, original submittal August 2011, finalized April 2014.

FLO-2D Cross Sections



Kimley»Horn

Expect More. Experience Better.

Appendix B – Hydraulics

- PCSWMM Report

PCSWMM Report

Mohave landfill

Model Mohave Valley Landfill Basin_Wier option.inp

Kimley-Horn and Associates Inc.

December 15, 2025

Table of Contents

Summaries

Summary 1: Results statistics 3

Maps

Figure 1: Extent 1 4

Graphs

Figure 2: depth inflow and flow 5

Profiles

Figure 3: Node SU1 to Node OF2 6

Tables

Table 1A: Outfalls 7

Table 1B: Outfalls 7

Table 1C: Outfalls 7

Table 1D: Outfalls 7

Table 2A: Storages 8

Table 2B: Storages 8

Table 2C: Storages 8

Table 2D: Storages 8

Table 2E: Storages 9

Table 2F: Storages 9

Table 3A: Orifices 9

Table 3B: Orifices 9

Table 4A: Weirs 10

Table 4B: Weirs 10

Table 4C: Weirs 10

Summary 1: Results statistics

Name	Mohave Valley Landfill Basin_Wier option
Max. subcatchment total runoff (MG)	n/a
Max. subcatchment peak runoff (cfs)	n/a
Max. subcatchment runoff coefficient	n/a
Max. subcatchment total precip (in)	n/a
Min. subcatchment total precip (in)	n/a
Max. node depth (ft)	6.4
Num. nodes surcharged	0
Max. node surcharge duration (hours)	0
Max. node height above crown (ft)	0
Min. node depth below rim (ft)	0
Num. nodes flooded	0
Max. node flooding duration (hours)	0
Max. node flood volume (MG)	0
Max. node ponded volume or depth (acre-in/1000 ft³/ft)	0
Max. storage volume (1000 ft³)	1967.983
Max. storage percent full (%)	98.4
Max. outfall flow frequency (%)	87.13
Max. outfall peak flow (cfs)	1185.24
Max. outfall total volume (MG)	63.667
Total outfall volume (MG)	63.667
Max. link peak flow (cfs)	1185.24
Max. link peak velocity (ft/s)	9.68
Min. link peak velocity (ft/s)	9.68
Num. conduits surcharged	0
Max. conduit surcharge duration (hours)	0
Max. conduit capacity limited duration (hours)	0

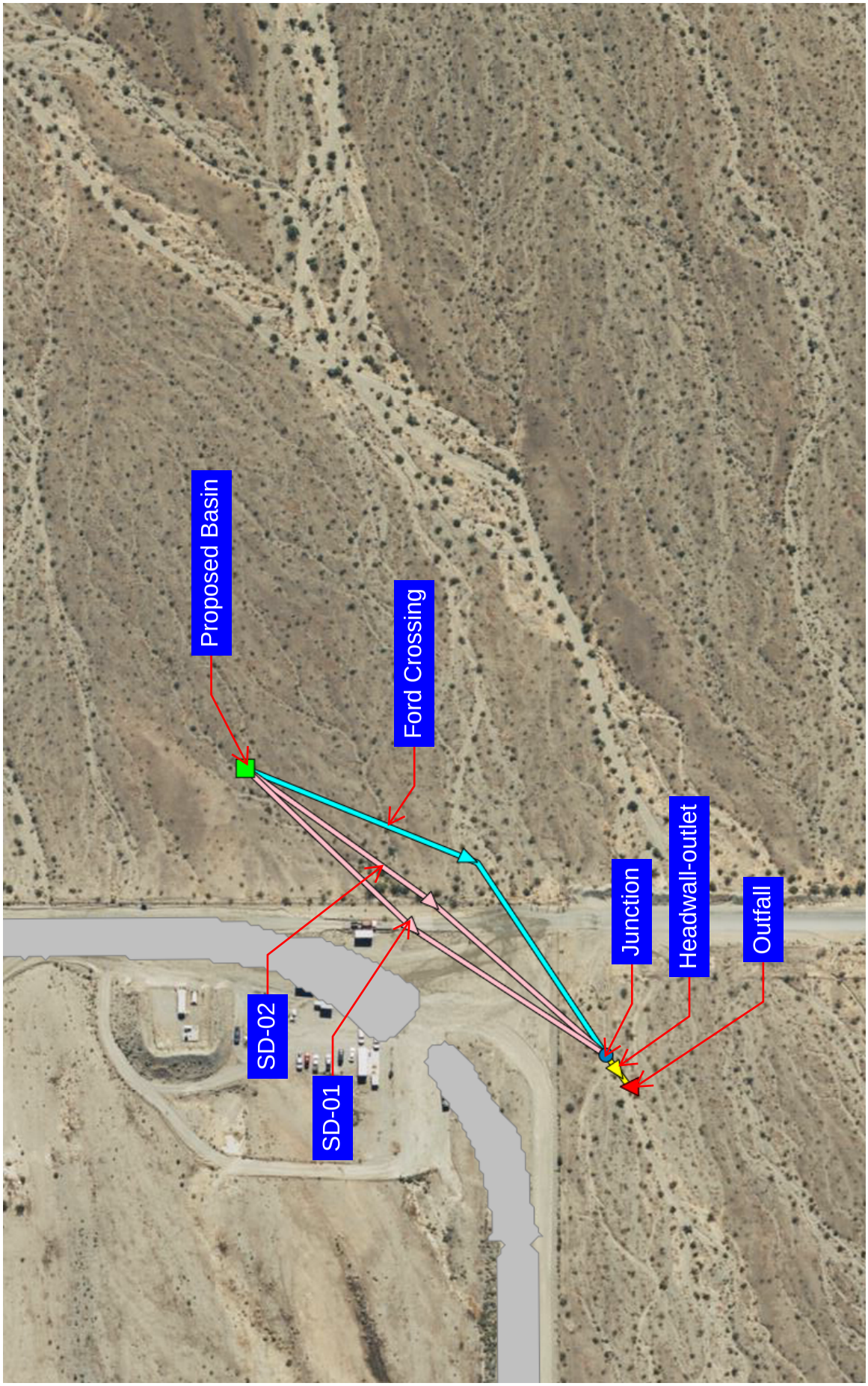


Figure 1: Extent 1

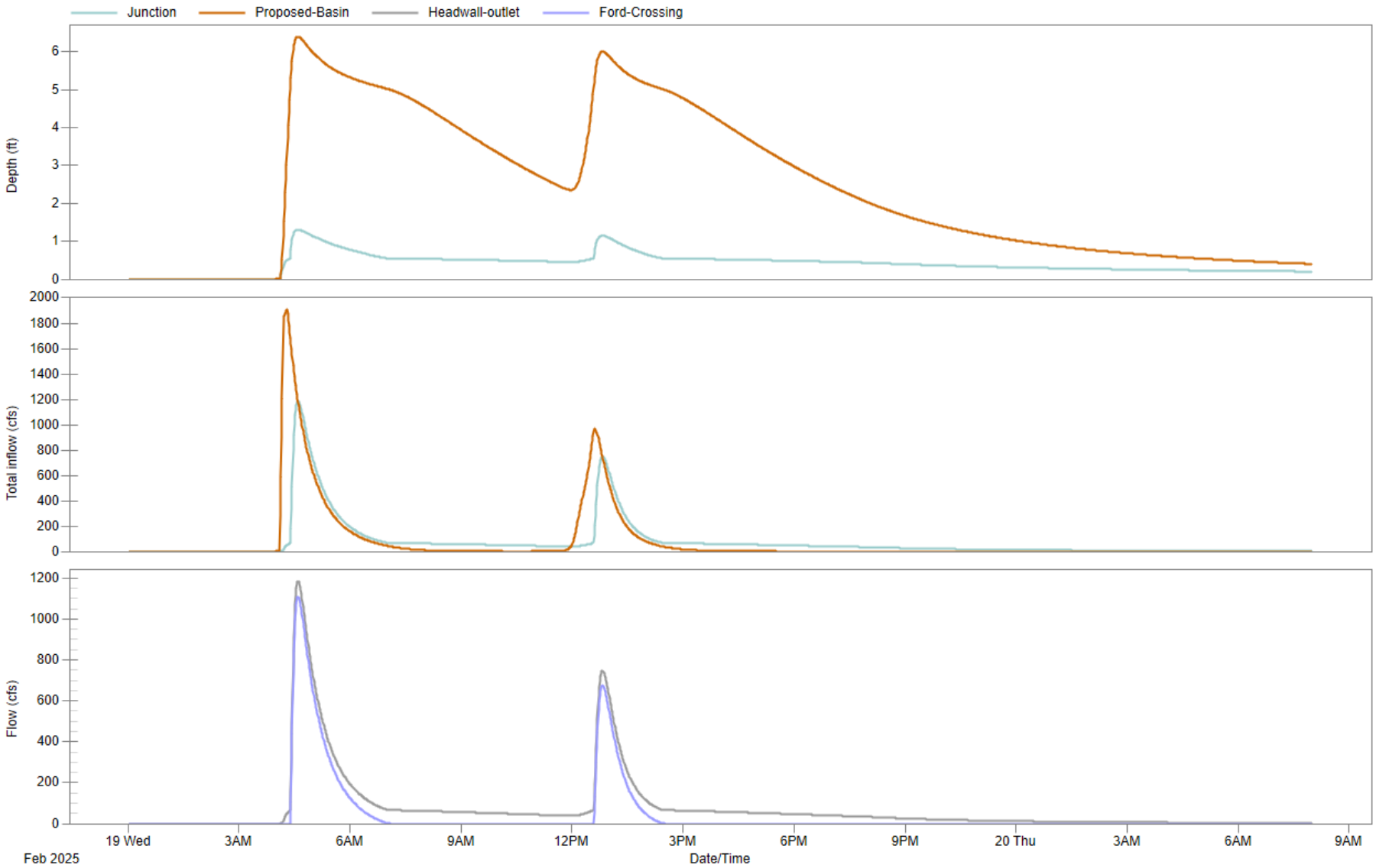


Figure 2: depth inflow and flow

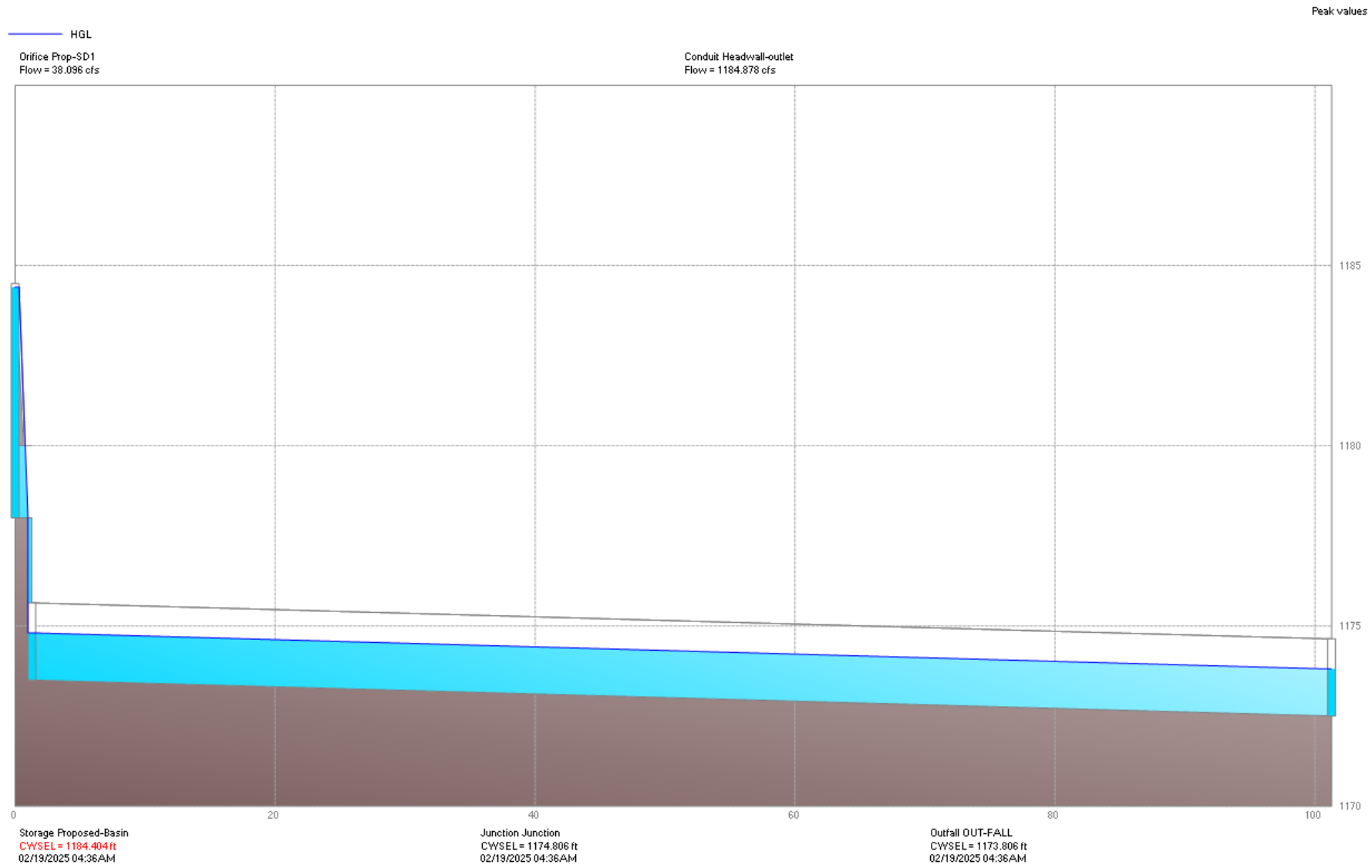


Figure 3: Node SU1 to Node OF2

Table 1A: Outfalls

Name	X-Coordinate	Y-Coordinate	Tag	Inflows	Treatment	Invert Elev. (ft)	Rim Elev. (ft)	Tide Gate	Route To	Type	Fixed Stage (ft)	Curve Name	Series Name	Outlet	Baseline (cfs)	Baseline Pattern
OUT-FALL	-76692.233	1472128.898		NO	NO	1172.5	0	NO		NORMAL	0	*	*		0	

Table 1B: Outfalls

Name	Time Series	Scale Factor	Average Value (cfs)	Time Pattern 1	Time Pattern 2	Time Pattern 3	Time Pattern 4	Hydrograph	Sewershed Area (ac)	Avg. Depth (ft)	Max. Depth (ft)	Max. HGL (ft)	Time Max. HGL (M/D/Y)	Rep. Max. Depth (ft)
OUT-FALL		1	0						0	0.4	1.31	1173.81	02/19/2025 04:35 AM	1.31

Table 1C: Outfalls

Name	Max. Lat. Inflow (cfs)	Max. Total Inflow (cfs)	Total Lat. Inflow (MG)	Total inflow (MG)	Flow Error (%)	Hours Surcharged (h)	Max. Surcharge (ft)	Min. Freeboard (ft)	Hours Flooded (h)	Max. Flood Rate (cfs)	Total Flood Vol. (MG)	Max. Ponded Depth (ft)	Flow Frequency	Avg. Flow (cfs)	Max. Flow (cfs)	Total Flow (MG)
OUT-FALL	0	1185.24	0	63.7	0	0	0	0	0	0	0	0	87.13	84.79	1185.24	63.667

Table 1D: Outfalls

Name	Contributing Area (ac)	Contributing Imp. Area (ac)	Max. Unit Flow (cfs/ac)	GIS_LENGTH (m)	GIS_AREA (m²)	GIS_PARTS
OUT-FALL	0	0	0	0	0	1

Table 2A: Storages

Name	X-Coordinate	Y-Coordinate	Tag	Inflows	Treatment	Invert Elev. (ft)	Rim Elev. (ft)	Depth (ft)	Initial Depth (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Evap. Factor (fraction)	Storage Curve
Proposed-Basin	-76298.849	1472576.944		YES	NO	1178	1184.5	6.5	0	0	0	0	TABULAR

Table 2B: Storages

Name	Coefficient	Exponent	Constant (ft²)	Curve Name	Major Length (ft)	Minor Length (ft)	Side Slope	Height (ft)	Baseline (cfs)	Baseline Pattern	Time Series	Scale Factor	Average Value (cfs)	Time Pattern 1
Proposed-Basin	1000	0	0	1	0	0	0	0	0		Timeseries	1	0	

Table 2C: Storages

Name	Time Pattern 2	Time Pattern 3	Time Pattern 4	Hydrograph	Sewershed Area (ac)	Suction Head (in)	Conductivity (in/hr)	Initial Deficit (fraction)	Avg. Depth (ft)	Max. Depth (ft)	Max. HGL (ft)	Time Max. HGL (M/D/Y)
Proposed-Basin					0	0	0	0	2.36	6.4	1184.4	02/19/2025 04:35 AM

Table 2D: Storages

Name	Rep. Max. Depth (ft)	Max. Lat. Inflow (cfs)	Max. Total Inflow (cfs)	Total Lat. Inflow (MG)	Total inflow (MG)	Flow Error (%)	Hours Surcharged (h)	Max. Surcharge (ft)	Min. Freeboard (ft)	Hours Flooded (h)	Max. Flood Rate (cfs)	Total Flood Vol. (MG)	Max. Ponded Depth (ft)	Avg. Volume (1000 ft³)	Avg. Percent Full (%)
Proposed-Basin	6.4	1915.32	1915.32	64.5	64.5	0	0	0	0.1	0	0	0	0	698.209	34.9

Table 2E: Storages

Name	Evaporation Loss (%)	Infiltration Loss (%)	Total Percent Loss (%)	Max. Volume (1000 ft³)	Max. Percent Full (%)	Max. Outflow (cfs)	Contributing Area (ac)	Contributing Imp. Area (ac)	Max. Unit Flow (cfs/ac)	GIS_LENGTH (m)	GIS_AREA (m²)
Proposed-Basin	0	0	0	1967.983	98.4	1185.11	0	0	0	0	0

Table 2F: Storages

Name	GIS_PARTS
Proposed-Basin	1

Table 3A: Orifices

Name	Inlet Node	Outlet Node	Tag	Type	Cross-Section	Height (ft)	Width (ft)	Inlet Offset (ft)	Discharge Coeff.	Flap Gate	Time to Open/Close (h)	Control Rules	Max. |Flow| (cfs)	Time Max. Flow (M/D/Y)
Prop-SD1	Proposed-Basin	Junction		SIDE	CIRCULAR	2	0	-4	0.65	NO	0	NO	38.1	02/19/2025 04:35 AM
Prop-SD2	Proposed-Basin	Junction		SIDE	CIRCULAR	2	0	-4	0.65	NO	0	NO	38.1	02/19/2025 04:35 AM

Table 3B: Orifices

Name	Max/Full Depth	Contributing Area (ac)	Contributing Imp. Area (ac)	Max. Unit Flow (cfs/ac)	GIS_LENGTH (m)	GIS_AREA (m²)	GIS_PARTS
Prop-SD1	1	0	0	0	167.985	0	1
Prop-SD2	1	0	0	0	168.489	0	1

Table 4A: Weirs

Name	Inlet Node	Outlet Node	Tag	Type	Height (ft)	Length (ft)	Side Slope (ft/ft)	Inlet Offset (ft)	Discharge Coeff. (CFS)	Flap Gate	End Contractions	End Coeff. (CFS)	Can Surcharge	Coeff. Curve
Ford-Crossing	Proposed-Basin	Junction		TRANSVERSE	1.5	200	0	5	3.33	NO	0	0	YES	

Table 4B: Weirs

Name	Road Width (ft)	Road Surface	Control Rules	Max. |Flow| (cfs)	Time Max. Flow (M/D/Y)	Max/Full Depth	Contributing Area (ac)	Contributing Imp. Area (ac)	Max. Unit Flow (cfs/ac)	GIS_LENGTH (m)	GIS_AREA (m²)
Ford-Crossing	0	PAVED	NO	1108.92	02/19/2025 04:35 AM	0.94	0	0	0	175.491	0

Table 4C: Weirs

Name	GIS_PARTS
Ford-Crossing	1

Exhibit 7. Figure Displaying Northern Run-on Diversion Channel

Base topographic map prepared by Nevada Aerial Mapping, Inc., Reno, Nevada. Date of photography, May 21, 1998.

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

EXISTING TOPOGRAPHY AND FACILITIES

Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No 2 | File Name D-SW-102-B | Revision B

Rev No	Revision	Designed by	Drawn by	Checked by	App'd	Date	Vector
A	SUBMITTED FOR CLIENT REVIEW	JDC	JDC	CDM		12/30/96	
B	SUBMITTED FOR REGULATORY APPROVAL					1/28/97	

This drawing has not been published but rather has been prepared by Vector Engineering, Inc. for use by the client named in the title block, solely in respect of the construction operation, and maintenance of the facility named in the title block. Vector Engineering, Inc. shall not be liable for the use of this drawing on any other facility or for any other purpose

VECTOR ENGINEERING, INC.
Grass Valley, CA • El Dorado Hills, CA • Carson City, NV • Denver, CO
1601 Fairview Dr. Suite H. Carson City, NV 89701 (702) 883-7065

Appendix K

1993 Conceptual Hydrogeologic Model of Mohave Valley Landfill Site

BASIN & RANGE HYDROGEOLOGISTS

AN ARIZONA CORPORATION

TECHNICAL MEMORANDUM

TO: Michael P. Hendrix, P.E.
Mohave County Public Works

FROM: BASIN & RANGE HYDROGEOLOGISTS, INC. and Vector Engineering, Inc.

DATE: June 24, 1993

SUBJECT: CONCEPTUAL HYDROGEOLOGIC MODEL OF MOHAVE VALLEY LANDFILL SITE

REGIONAL HYDROGEOLOGIC SETTING

Geography, Climate and Vegetation

The Mohave Valley Landfill is located within Mohave Valley, a northwest-trending alluvial valley within the Basin and Range Physiographic Province. The Landfill site is situated at an average elevation of about 1150 feet above mean sea level (MSL) on a west-sloping alluvial fan flanking the Colorado River (*Exhibit 1*). About 3.8 miles northeast of the Landfill, a ridge of the Black Mountains rises to an elevation of 3000 feet above MSL. The main crest of the Black Mountains lies approximately 11 miles northeast of the Landfill, and contains peaks that rise over 5000 feet above MSL.

Temperatures in Mohave Valley range from 41° to 80° (F) in the winter months, and 71° to 112° (F) in the summer months. The area experiences an average of 117 days per year when temperatures exceed 100°F, and 3 days per year when temperatures drop below 32°F. Average annual precipitation in the Valley is about 5 to 6 inches on the Colorado River floodplain and piedmont slopes, and about 10 inches within mountain front areas. Most of the rain occurs during the winter and late summer as a result of high intensity storms (*Metzger and Loeltz, 1973*). Predominant vegetation in the vicinity of the Mohave Valley Landfill is Creosote Bush, White Bursage, White Brittlebush, and Triangle Bursage. The density of vegetative cover typically is less than ten percent.

Regional Geology

The primary geologic features in the vicinity of the Mohave Valley Landfill are the Black Mountains and the Mohave Valley Basin (*Exhibit 1*). According to BASIN & RANGE's interpretation of the "Geologic Map of Arizona" by S.J. Reynolds (1988), the Black Mountains are composed primarily of Oligocene to Miocene volcanic rocks, although areally restricted outcrops of Tertiary granite and Early Proterozoic rocks are present in places. The Black Mountains were elevated to their present position during periods of intense faulting and erosional activities which resulted in the

formation of the Basin and Range Physiographic Province during the Miocene and Pliocene epochs *(Dickinson, 1989)*.

The Mohave Valley Basin originated during the Miocene and Pliocene periods of geologic faulting described above. The basin floor probably is composed of rocks that are similar to those in the adjacent Black Mountains. The basin contains accumulations of sediments that have been subdivided by local workers into a Miocene(?) basal fanglomerate consisting of cemented sand, gravel and silt; the Pliocene Bouse Formation consisting of sand, clay limestone and tufa; and Late Pliocene to Holocene alluvium consisting of sand, gravel, silt and clay *(Metzger and Loeltz, 1973)*. Deposition of the Miocene(?) basal fanglomerate pre-dated development of the modern Colorado River, and may have occurred in response to formation of the Mohave Valley Basin. The Pliocene Bouse Formation was deposited in response to initial formation of the Gulf of California and a rift embayment in westernmost Arizona *(Dickinson, 1989)*. The Late Pliocene to Holocene alluvium was deposited by the tributaries and trunk stream of the Colorado River, which occupied the previously formed rift embayment approximately 5 million years ago *(Dickinson, 1989)*.

Regional Ground Water Occurrences and Flow Patterns

The subsurface hydrology of Mohave Valley is summarized in a report on the geohydrology of the Needles Area by D. G. Metzger and O. J. Loeltz (1973). That report indicates that Mohave Valley is underlain by an elongate north-south oriented ground-water reservoir that coincides areally with the Colorado River. A contour map of water levels collected from 1962 to 1969 is shown in *Exhibit 2*.

Metzger and Loeltz (1973) indicate that sources of recharge to the aquifer underlying Mohave Valley are the Colorado River, precipitation and irrigation water supplied to the mountains and alluvial plains flanking the Colorado River, and underflow from bordering areas. The authors reported that the Colorado River represents the principal source of recharge.

According to Metzger and Loeltz (1973), the water-bearing geologic units in the Mohave Valley area are the Miocene(?) fanglomerate, the Pliocene Bouse Formation, and the Late Pliocene to Holocene alluvium of the Colorado River and its tributaries (described above). The authors stated that there is no evidence to indicate any sizable potential for ground-water development in the bedrock. As an example, they cite one of the few local wells known to be producing from bedrock; the well was drilled into consolidated Tertiary sedimentary rocks and delivered a maximum yield of 1.5 gallons per minute.

Regional Surface Water Features

Surface water features in Mohave Valley include a number of east-west oriented ephemeral streams and the Colorado River. The ephemeral streams drain the Black Mountains during infrequent periods of intense rain, and flow west-southwest across alluvial fans into the Colorado River. The stretch of the Colorado River closest to the Mohave Valley Landfill is located 6.5 miles east of the Landfill site. At that location, the Colorado River is highly sinuous in form, and its riverbanks are situated at an average elevation of approximately 500 feet above MSL.

CONCEPTUAL MODEL OF SITE HYDROGEOLOGY

Soils

A soil survey of Mohave County was performed by Richmond and Richardson (1974). According to that survey, the general area containing the Mohave Valley Landfill is characterized by predominantly hyperthermic arid soils. This is a broad grouping of soils with mean annual soil temperatures of more than 72° F that are subject to less than 10 inches of annual precipitation. The Landfill site is situated on a sloping alluvial fan that is mantled by Laveen-Carrizo-Antho Association soils; this Association is described below.

The Laveen-Carrizo-Antho Association is comprised of about 40 percent Laveen soils, 25 percent Carrizo soils, 25 percent Antho soils, and 10 percent other miscellaneous soil types. Laveen soils have pale brown surface layers 10 to 15 inches thick. Those surface layers overlie brown loam substrata containing many soft to hard masses of lime to a depth of 60 inches or greater. Local areas are alkali (sodic) or saline-alkali. Carizzo soils have very pale brown loamy fine sand surface layers up to 6 inches thick. Those surface layers overlie stratified very gravelly coarse sand substrata that extend to a depth of 60 inches or greater. Local areas are gravelly to very gravelly on the surface. The Antho soils have brown or light yellowish-brown sandy loam or gravelly sandy loam surface layers. These surface layers are underlain to a depth of 60 inches or greater by stratified sandy loam, fine sandy loam, or gravelly sandy loam substrata with thin layers of silt loam, loamy sand, or gravelly loamy sand. Carizzo and Antho soils are subject to brief flooding in local areas (*Richmond and Richardson, 1974*).

Geologic Units

Information on the geologic units underlying the Mohave Valley Landfill was generated during drilling of an exploratory well located one-half mile south of the Landfill site in SW1/4 SW1/4 SE1/4 Sec. 21, T19N, R21W. That well was drilled by Mohave County during April 1987 to estimate the depth to ground water in the vicinity of the landfill. A lithologic borehole log of the well prepared by Mohave County personnel is provided as *Exhibit 3*; a schematic cross section showing the geologic units beneath the Landfill site is shown in *Exhibit 4*. According to the lithologic log, alluvium extends from the ground surface to a depth of 262 feet (i.e., ground surface elevation at the well is 1,070 feet above MSL) at the site. Clasts derived from both volcanic and granitic source rocks were present within the alluvium, and fragment sizes were largest between 0 and 75 feet below ground surface. Bedrock was encountered at a depth of 262 feet below ground surface (*Exhibit 3*) and displayed a relatively consistent composition from 262 feet to the bottom of the exploratory borehole (i.e., 400 feet below ground surface). Bedrock lithologies were reported to include an altered, greenish-white, fine-grained rock type interpreted to represent a latite or granite, and a purplish-brown rock type interpreted to represent a latite or dike material. Ground water reportedly was not encountered during drilling of the exploratory well.

Lithologic data also are available for a well that was drilled and installed about 5 miles east of the facility at NW1/4 NE1/4 NE1/4 Sec. 26, T19N, R22W. Rock types encountered

during drilling of that well were reported by Metzger and Loeltz (1973). The well borehole penetrated alluvium of the Colorado River and its tributaries from 0 to 211 feet below ground surface (i.e., ground surface elevation at the well is 610 feet above MSL), and strata of the Pliocene Bouse Formation from 211 feet to the bottom of the borehole at 228 feet below ground surface.

Ground Water Occurrences and Flow Patterns

Water-level data for well sites within three miles of the Mohave Valley Landfill are plotted in *Exhibit 5*. The data shown include all sites for which water-level information are recorded in the ADWR Operations Division well registry. For purposes of discussion, the well sites have been arbitrarily subdivided with respect to distance from the mountain front into proximal, medial and distal sites, as indicated on *Exhibit 5*. In general, available lithologic logs indicate that the proximal wells were drilled through a surficial (i.e., less than 50 feet thick) veneer of alluvium into bedrock, while the distal wells were drilled into a thick sequence of sediments and did not encounter bedrock. The only lithologic log available from a medial well site is from the exploratory well (*Exhibit 3*) installed at Mohave Valley Landfill which encountered bedrock at a depth of 262 feet below ground surface.

The geometry of the aquifer cannot be reliably estimated from the information presented in *Exhibit 5* because that data set includes water-level measurements made during an approximate 10-year time span. As such, the data are complicated by long-term water level fluctuations. To gain more meaningful depictions of the potentiometric surface in the vicinity of the Mohave Valley Landfill, two additional maps were generated, each displaying data collected during one particular calendar year. A map displaying data collected during 1982 is shown in *Exhibit 6*, and a map of 1991 data is shown in *Exhibit 7*. Calendar years 1982 and 1991 were selected because measurements collected during those years were well represented within the registry data.

Based on interpretations of the maps shown in *Exhibits 6 and 7*, it is evident that west-southwest directed ground-water flow (i.e., gradient up to 25 feet per mile) was present in the area encompassing the Mohave Valley Landfill during 1982 and 1991. This suggests that, in addition to the south-flowing ground water supplied by infiltration along the Colorado River (*Metzger and Loeltz, 1973*), a significant component of westerly flow away from the Black Mountains and toward the Colorado River may have been recharging the local aquifer. However, it is not possible to determine the magnitude of this recharge contribution, or whether the westerly ground-water flow was intermittent or constant. Also, it appears, from the data presented in *Exhibit 6*, that ground water was present within 1.5 miles of the Mohave Valley Landfill (beneath the Kunkel well site) during 1982. Both of the above observations contrast with the conceptual hydrologic model developed for the Mohave Valley Landfill by the Arizona Department of Environmental Quality (ADEQ) (1988). That model, which is shown in *Exhibit 8*, assumed that infiltration along the Colorado River was the only source of recharge to the local aquifer. Consequently, ADEQ's model predicted an absence of ground water at medial well sites (i.e., Mohave Valley Landfill well) and a regionally flat ground-water gradient. Although this scenario may be representative of dry periods, mountain-front recharge during wetter years may exert greater hydraulic influence than suggested by ADEQ's model.

Although available data suggest that ground water may be present (perhaps intermittently) in the vicinity of the Mohave Valley Landfill, it is still uncertain whether or not ground water is present immediately beneath the exploratory well and the Landfill site. Because the exploratory well was drilled 120 feet deeper than the alluvium-bedrock interface and was reportedly "*dry*" during tests conducted on April 21, 1987 and May 3, 1993, it is possible that ground water beneath the site is contained within localized zones of fractured bedrock. As mentioned previously, such ground-water occurrences have been documented at a few localities elsewhere within Mohave Valley (*Metzger and Loeltz, 1973*). Another possibility is that bedrock beneath the Landfill site serves as an impervious boundary, and no ground water is present beneath the exploratory well and nearby Landfill despite its occurrence at the Kunkel well site (*Exhibit 6*). A reasonable model that would explain these relationships is based on the premise that the exploratory well and Mohave Valley Landfill are situated above a structurally elevated block of bedrock. According to this scenario, ground water flows through alluvium surrounding the bedrock high, and consequently appears only in wells peripheral to the block, such as the Kunkel well. Although lithologic data that could be used to directly determine whether the well produced from alluvium were not reported for the Kunkel well, its recorded well yield (8 gallons per minute) is five times the value reported for the bedrock-producing well described by Metzger and Loeltz (1973).

Ground Water Quality

Water quality analyses have been performed annually since 1988 at four wells located several miles downgradient from the Mohave Valley Landfill (*Exhibit 1*). The monitored sites include a well registered to W. Donahue (Sec. 14, T19N, R22W), R. Harrison (Sec. 23, T19N, R22W), B. Maples (Sec. 26, T19N, R22W), and J. Bloor (Sec. 25, T19N, R22W). Ground-water samples collected from those wells were analyzed for inorganic compounds, volatile and semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, acrolein and acrylonitrile, dioxin, and radionuclides. Results of those analyses indicated that volatile and semi-volatile organic compounds, organochlorine pesticides, chlorinated herbicides, acrolein and acrylonitrile, and dioxin have not been detected at concentrations exceeding laboratory reporting limits in samples collected from the subject monitor wells. Additionally, with the exception of fluoride and selenium, inorganic compounds and radionuclides have consistently been detected at concentrations below the maximum contaminant levels (MCLs) established by the U. S. Environmental Protection Agency (EPA). However, concentrations of total fluoride were reported between 4.0 and 4.3 milligrams per liter (mg/L) in samples collected from the Bloor well during 1988, 1989, 1991 and 1992, and concentrations of selenium were reported to be 0.012 and 0.035 mg/L in samples collected from the Bloor well during 1988 and 1991. The MCLs established by EPA for fluoride and selenium are 4.0 mg/L and 0.01 mg/L, respectively.

Local Surface Water Features

The Mohave Valley Landfill is traversed by two ephemeral washes that flow west-southwest during periods of heavy rainfall. Those washes drain the western flank of the Black Mountains and discharge directly into the Colorado River. According to a map prepared by the Federal Emergency Management Agency (*Exhibit 9*), the

projected 100-year flood boundaries for those washes do not extend beyond their existing channels, and the Landfill site is subject to minimal associated flood hazard.

As stated previously, the Mohave Valley Landfill lies approximately 6.5 miles east of the Colorado River. BASIN & RANGE contacted the U.S. Bureau of Reclamation (USBR) to learn whether or not the River might have a potential impact on the Landfill. Mr. Mike Baker (USBR), who reported that he has extensive knowledge of all investigations to date concerning flood conditions in western Arizona, stated that the Mohave Valley Landfill is outside all zones of designated flood hazard associated with the Colorado River.

REFERENCES

Arizona Department of Environmental Quality, 1988. *Interoffice Memorandum from Michael Leach to Miguel Santiago concerning the Mohave Valley Landfill*, March 15.

Dickinson, W.R., 1989. *Tectonic Setting of Arizona through Geologic Time*, in Jenny, J.P., and Reynolds, S.J (eds.), *Geologic Evolution of Arizona*, Arizona Geological Society Digest 17.

Federal Emergency Management Agency, 1988. *Flood Zone Map*, Community Parcel Number 0400-582435D, September.

Metzger, D.G., and Loeltz, O.J., 1973. *Geohydrology of the Needles Area, Arizona, California, and Nevada*, U.S. Geological Survey Professional Paper 486-J.

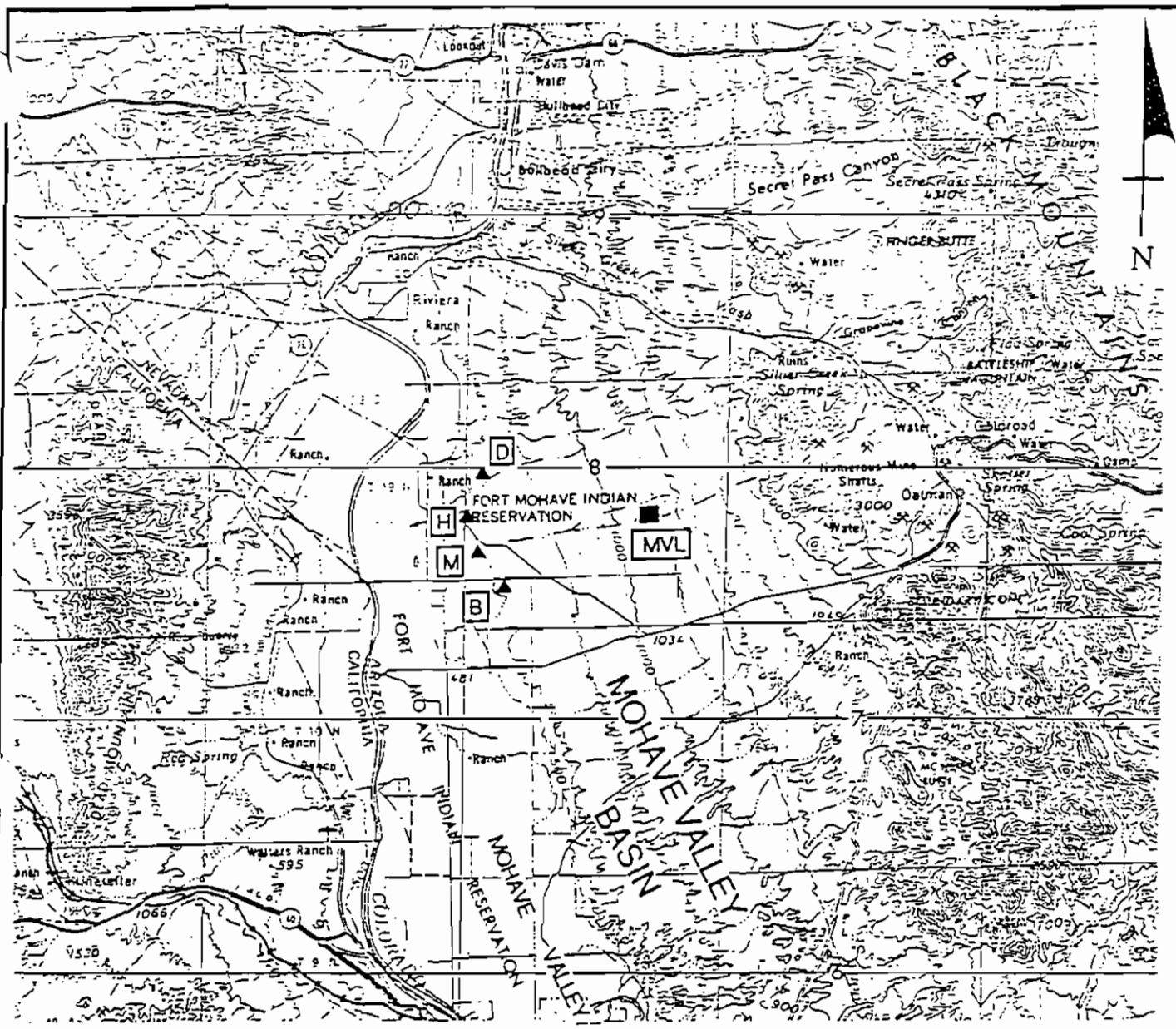
Mohave County, 1987. *Interoffice Memorandum from Michael P. Hendrix, P.E. to Harol J. Garryo, P.E. concerning Determination of Depth to Water at the El Rodeo Road Landfill Site*, May 13.

Reynolds, S.J., 1988. *Geologic Map of Arizona*, Arizona Geological Survey Map 26.

Richmond, D.L., and Richardson, M.L., 1974. *General Soil Map and Interpretations, Mohave County, Arizona*, U.S. Department of Agriculture Soil Survey Map.

U.S. Geological Survey, 1954. *1:250,000 Scale Topographic Map, Kingman, Arizona, Nevada, and California*, revised 1969.

U.S. Geological Survey, 1956. *1:250,000 Scale Topographic Map, Needles, California and Arizona*, revised 1969.

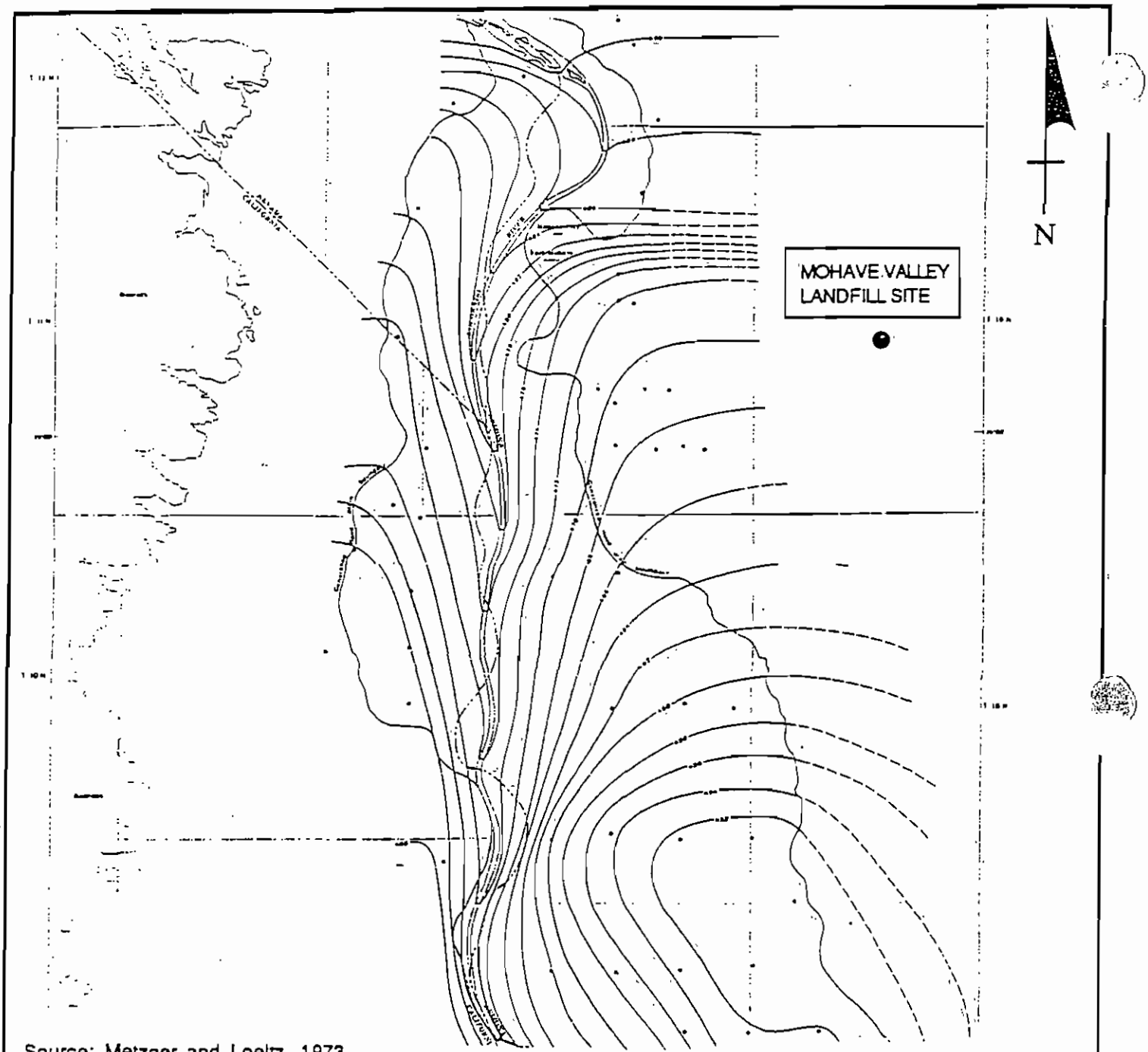


Source: U.S. Geological Survey, 1954 and 1956.

EXPLANATION

- D ▲ Well registered to W. Donahue
- H ▲ Well registered to R. Harrison
- M ▲ Well registered to B. Maples
- B ▲ Well registered to J. Bloor
- MVL ■ Location of Mohave Valley Landfill site

CLIENT: MOHAVE COUNTY PUBLIC WORKS	GENERAL LOCATION MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 1
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



Source: Metzger and Loeltz, 1973.

EXPLANATION

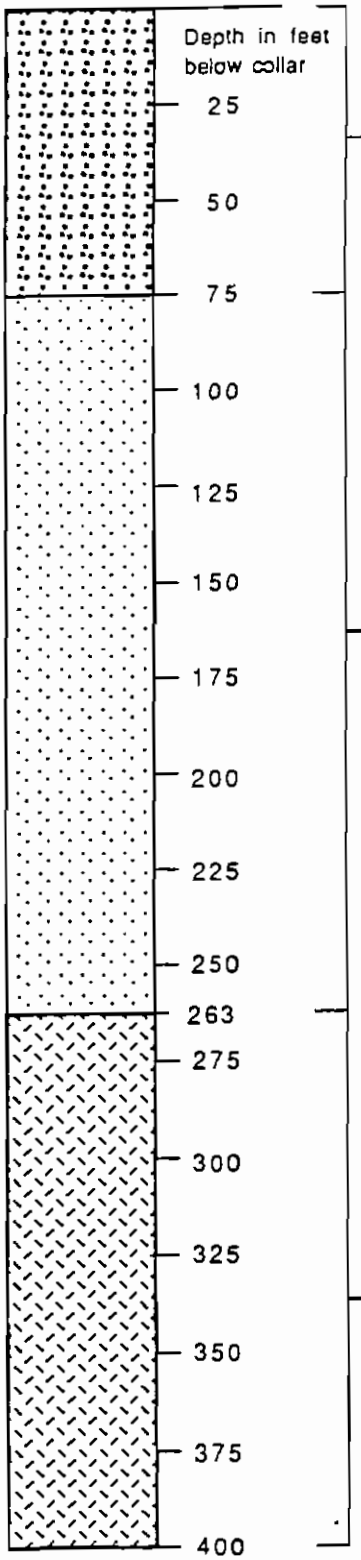
Well used for control for water-level contours. Water levels collected from 1962 to 1969.

Water level contour, shows altitude of water level surface; dashed where approximately located. Contour interval, in feet, is variable. Datum is mean sea level.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	REGIONAL WATER LEVEL CONTOUR MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 2
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



COLLAR

Alluvium, large fragments - mixture of several rock types including volcanic and granitic rocks

Alluvium - smaller fragments of both volcanic and granitic rocks. Large rock fragments indicate sample contamination from 0 to 75 depth interval.

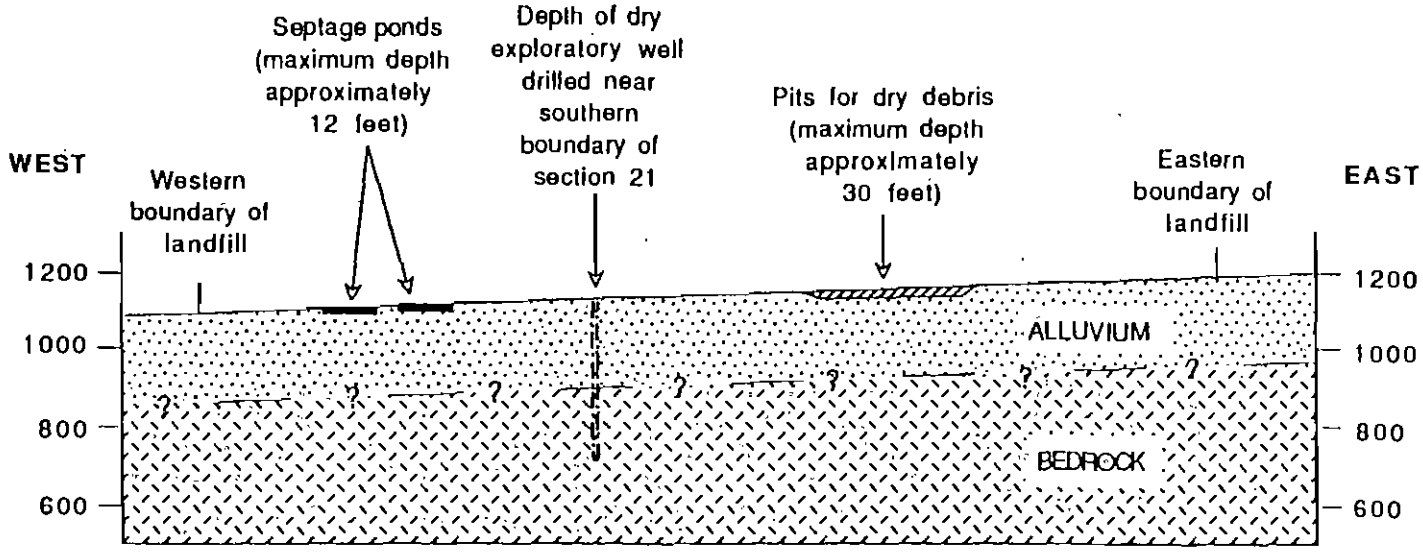
Alluvium/bedrock contact

Rock chips consist of two distinct rock types, 60%-80% greenish-white, altered fine-grained unit which appears to be either an altered latite or a fine-grained granitic unit. The second rock type is a purplish-brown latite, possibly occurring as a dike.

Bottom of hole

Source: Modified after Mohave County, 1987.

CLIENT: MOHAVE COUNTY PUBLIC WORKS	LITHOLOGIC LOG OF EXPLORATORY WELL MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 3
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



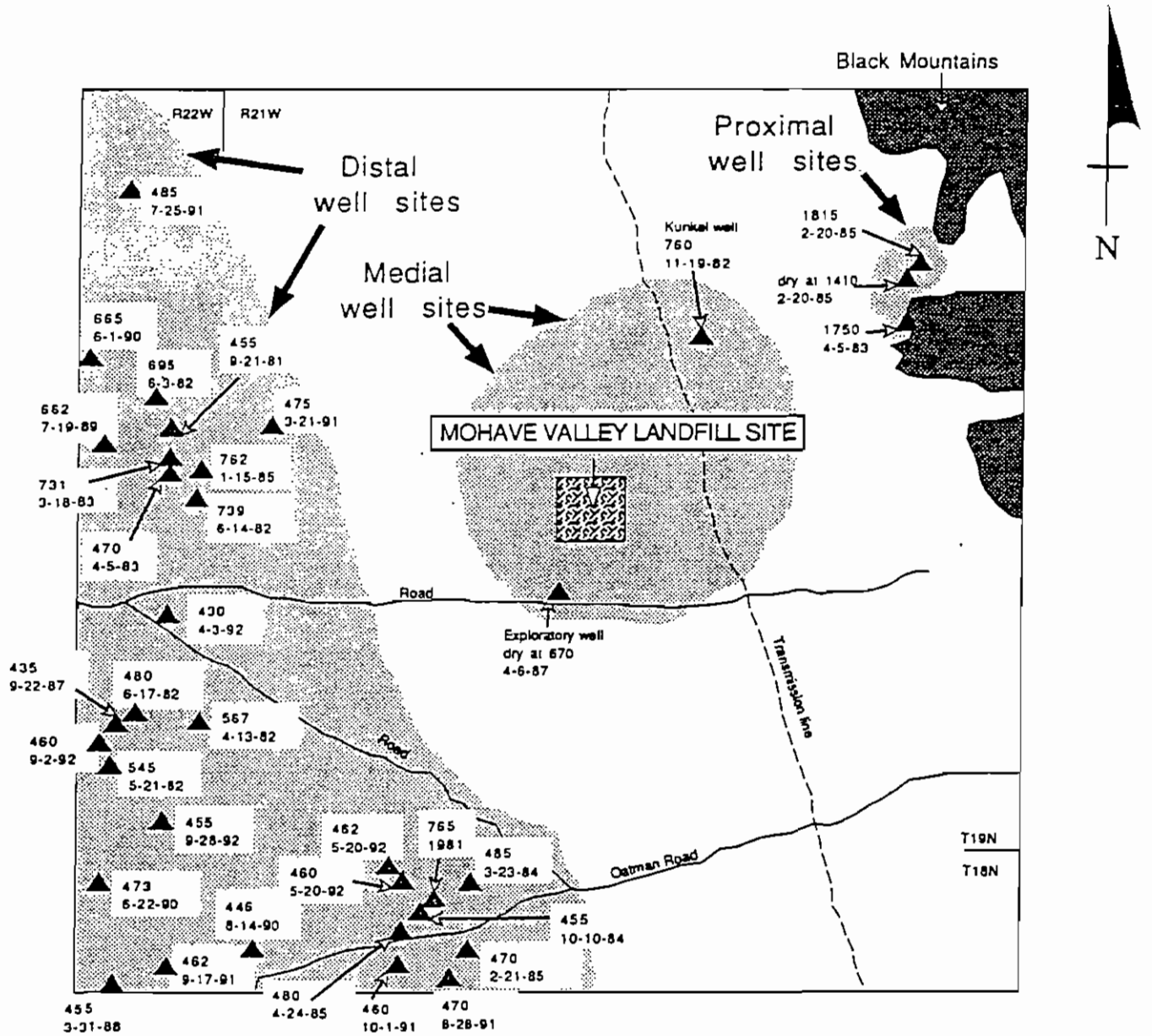
Note: Line of section oriented approximately east-west across the northern portion of landfill site. Elevations are shown in feet above mean sea level.

0 250 500

APPROXIMATE SCALE IN FEET

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	SCHEMATIC CROSS SECTION MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA
JUNE 24, 1993	FILE NO.: 93-309		

EXHIBIT 4



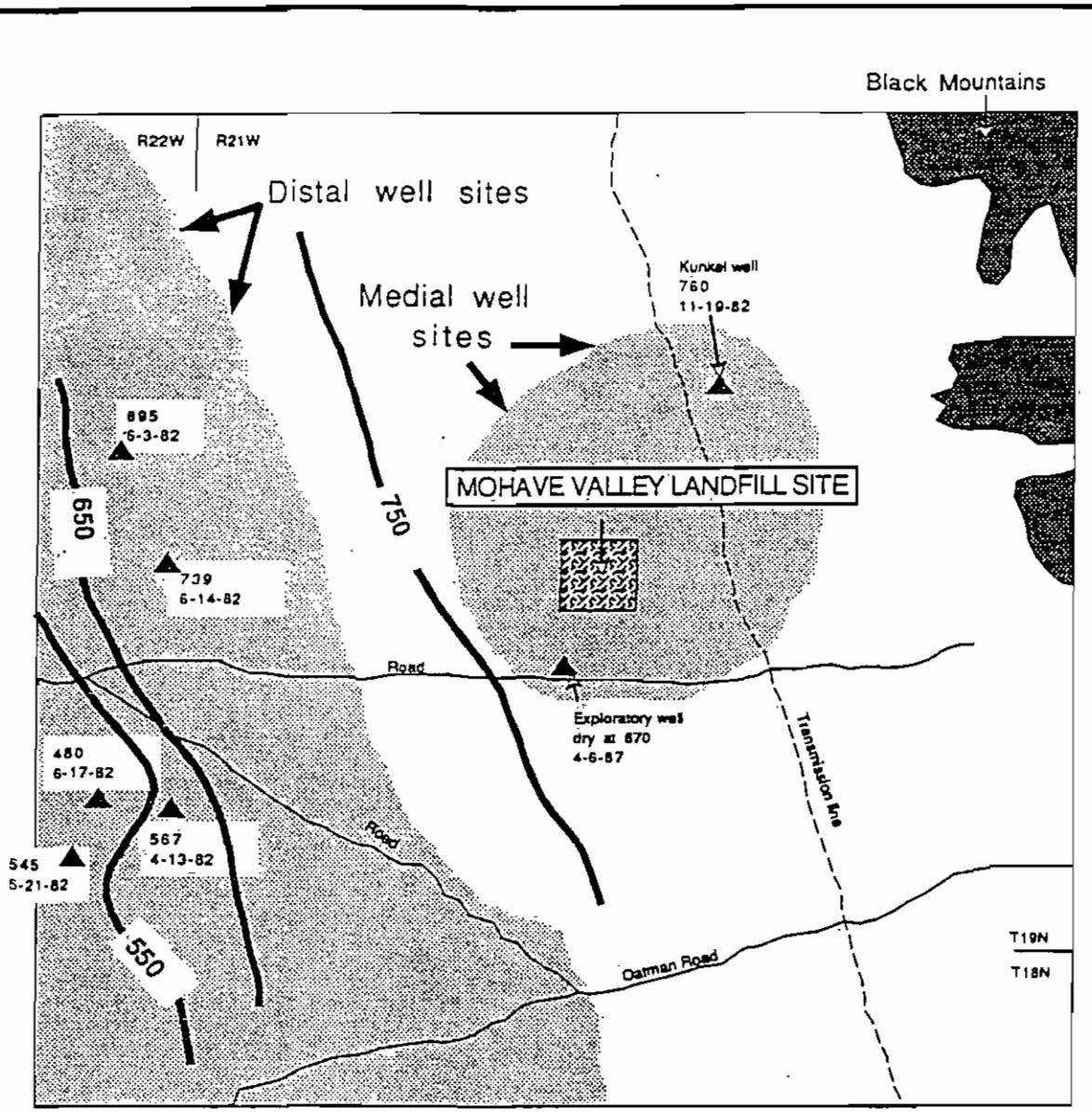
EXPLANATION

▲ 455 3-31-88 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	WELL LOCATION MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 5
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



EXPLANATION

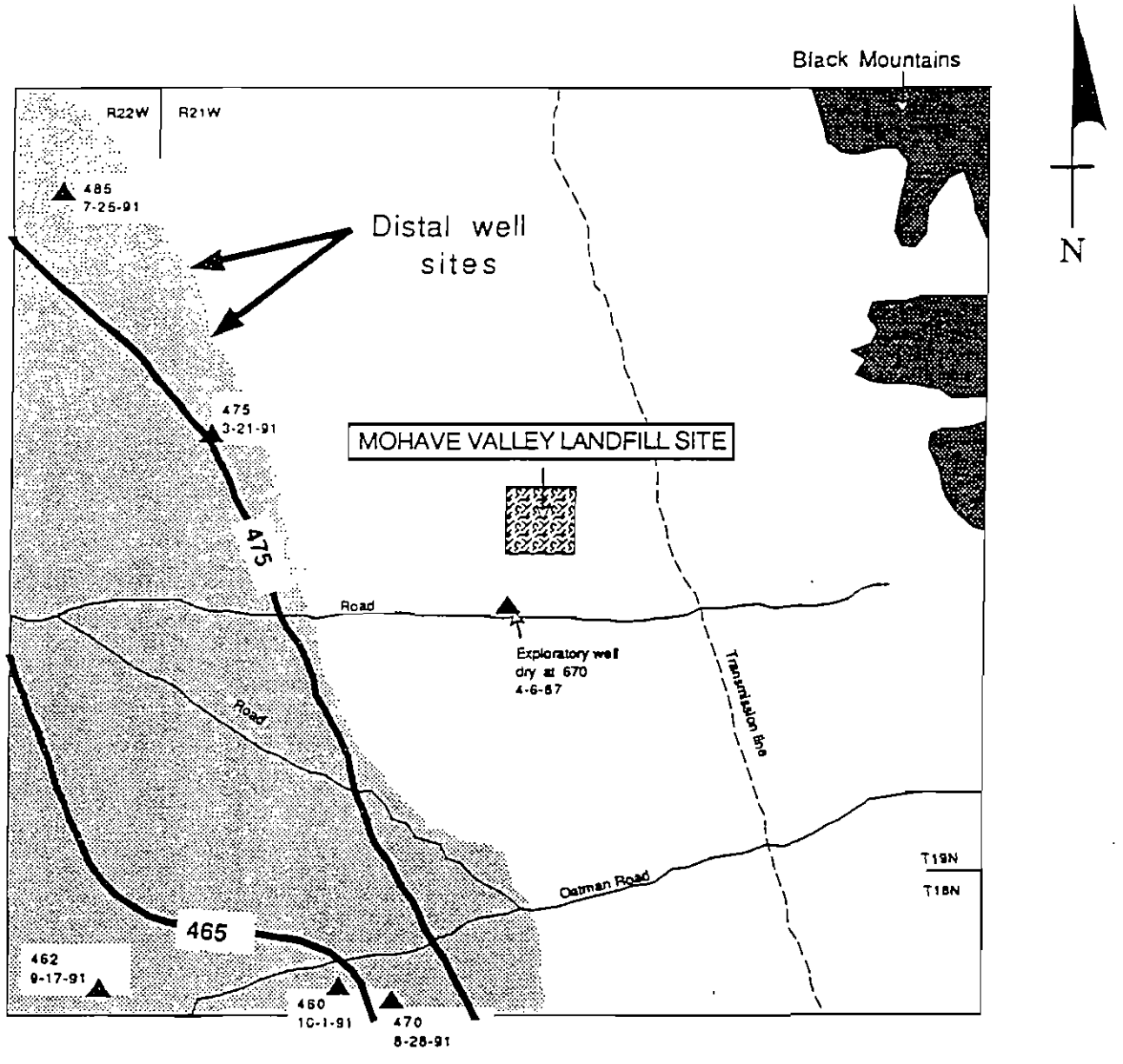
▲ 545 5-21-82 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

550 — Water level elevation contour in feet above mean sea level. *Contour interval* is 100 ft.

0 1 2

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS	CONTOUR MAP OF 1982 WATER LEVELS MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 6
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



EXPLANATION

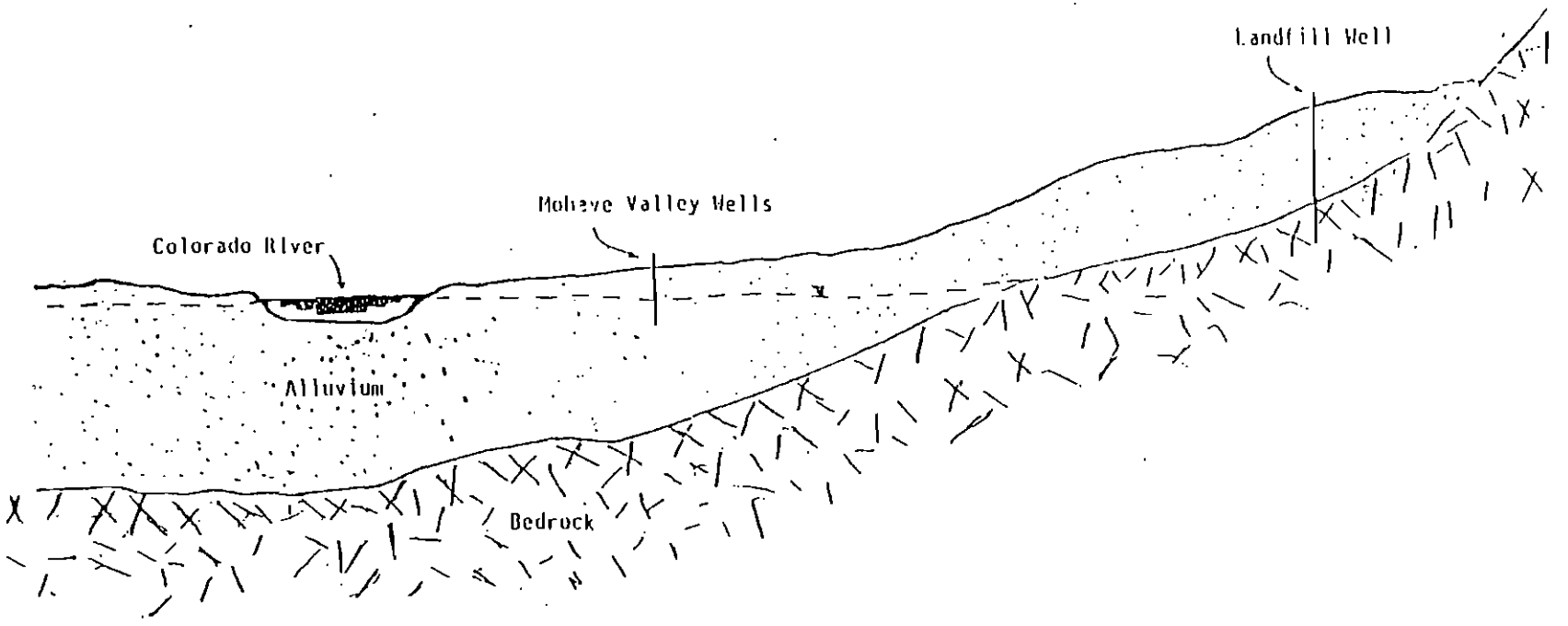
▲ 462 9-17-91 — Approximate well location, water table elevation (feet above mean sea level), and date measured. "Dry" indicates that no ground water was encountered; the elevation of the bottom of the well is indicated at each dry hole.

465 — Water elevation contour in feet above mean sea level. Contour interval is 10 ft.

0 1 2

APPROXIMATE SCALE IN MILES

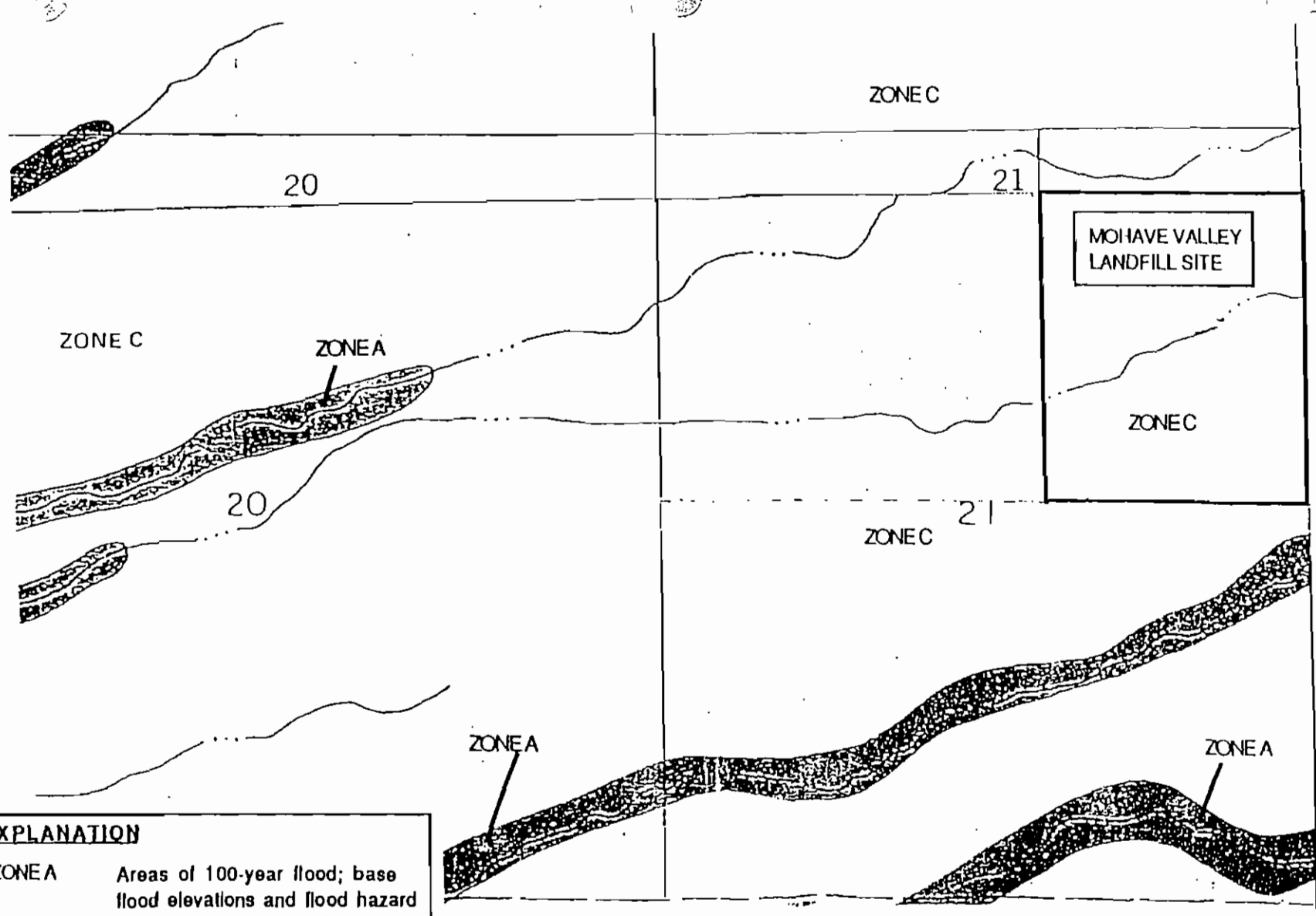
CLIENT: MOHAVE COUNTY PUBLIC WORKS	CONTOUR MAP OF 1991 WATER LEVELS MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 7
FILE NO.: 93-309	BASIN & RANGE	DATE: JUNE 24, 1993



Source: Arizona Department of Environmental Quality, 1988.

NO SCALE

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY'S CONCEPTUAL HYDROLOGIC MODEL MOHAVE VALLEY LANDFILL	EXHIBIT 8
JUNE 24, 1993	FILE NO.: 93-309			



EXPLANATION

ZONE A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
ZONE C	Areas of minimal flooding. (No shading)

Source: Modified after Federal Emergency Management Agency, 1988.

0 1/8 1/4

APPROXIMATE SCALE IN MILES

CLIENT: MOHAVE COUNTY PUBLIC WORKS		BASIN & RANGE	FLOOD ZONE MAP MOHAVE VALLEY LANDFILL MOHAVE COUNTY, ARIZONA	EXHIBIT 9
JUNE 24, 1993	FILE NO.: 93-309			

Appendix L

Closure and Post-Closure Cost Documentation

Appendix L-1

Closure and Post-Closure Cost Estimate

Mohave Valley Landfill
2025 Closure and Post-Closure Care Cost Estimates - Detailed Breakdown

Prepared By: SCS Engineers

Inflation Factor Calculation

	GDP Implicit Price Deflator (IPD)	
Quarter	**FY 2011**	**FY 2025**
Quarter III (prior year)	89.743□	125.70
Quarter IV (prior year)	90.26	126.45
Quarter I	90.73	127.58
Quarter II	91.326□	128.25
Average for the FY	**90.495**	**126.993**

Inflation Factor for FY 2011 to FY 2025 (FY2025 Average IPD/FY2011 Average IPD) = 1.4033 [1]

	GDP Implicit Price Deflator (IPD)	
Quarter	**FY 2023**	**FY 2025**
Quarter III (prior year)	119.03	125.70
Quarter IV (prior year)	120.16	126.45
Quarter I	121.29	127.58
Quarter II	121.92	128.25
Average for the FY	**120.601**	**126.993**

Inflation Factor for FY 2023 to FY 2025 (FY2025 Average IPD/FY2023 Average IPD) = 1.0530

General Site Information

Name of Solid Waste Landfill	**MOHAVE VALLEY LANDFILL**
Facility Operator	**Mesa Disposal, Inc.**
Site Owner	**Mohave County Development services**
Site Location (coordinates, township & range or longitude/latitude, preferred)	Longitude: -114.514193 Latitude: 35.022376
Assessors Parcel Number	221-33-010
Site Address	3999 El Rodeo Road Fort Mohave, Arizona 86426

CLOSURE COSTS	COST/DATA SOURCE	
I. Final Cover System Design and Construction		
1. Estimated Engineering, Design, and CQA and Testing Cost		
a. Engineering and Design	Engineer's Estimate	100,000
b. CQA Program Implementation, Certification, and Report	Engineer's Estimate	480,000
c. Total Cost of Engineers, Design and CQA	(Line 1a+1b)	**$580,000**
2. Mobilization Cost (Assumes 5% of all other Costs)		
		$262,220
3. Grading and Surface Preparation		
a. Final Cover 3D Surface Area	Engineer's Estimate/SQ.FT	4,900,000
b. Cost Per Acre	Average Cost/AC/RSMEAN 25	$2,500
c. Total Cost of Surface Preparation (Line 3a x 3b)		**$281,221**
4. 1.5 FT. Thick Compacted Barrier Layer (Mix of 50% on-site clay-rich material and 50% general on-site soil)		
Acquisition of Soil		
a. Volume of soil to be placed (CY)	Line 3a x 1.5 / 27	272,222
b. Cost to purchase soil	Vector 2010 CPCC	$0.00
c. Sub - Total Cost of Soil Acquisition (Line 4a x 4b)		**$0**
Placement		
d. Pick up clay/general soil	$2.0 (Vector 2010 CPCC) * IF * 50% of 4a	382,009
e. Transport clay/general soil from source to mixing pad in main borrow	$2.5 (Vector 2010 CPCC) * IF * 50% of 4a	477,512
f. Cost of mixing and haul to the cap area with scraper	$3.0 (Vector 2010 CPCC) * IF * 50% of 4a	573,014
g. Cost to moisture condition soil and compact in place	$3.0 (Vector 2010 CPCC) * IF * 50% of 4a	573,014
h. Sub - Total Cost of Placement Grading and Compaction		**$2,005,548**
i. Total Cost of Barrier Layer (Line 4c + 4h)		**$2,005,548**
5. 0.5 FT. Thick Cover / Vegetative Layer		
Acquisition of Soil		
a. Volume of soil to be placed (CY)	Line 3a x 0.5 / 27	90,741
b. Cost to purchase soil	Vector 2010 CPCC	$0.00
c. Sub - Total Cost of Soil Acquisition (Line 4a x 4b)		**$0**
Placement		
d. Pick up, haul, and place	$2.5 (Vector 2010 CPCC) * IF * 5a	318,342
e. Sub - Total Cost of Placement Grading and Compaction		**$318,342**
f. Hydroseeding	Engineer's Estimate ($5000/AC) Line 3a/43560*5000	562,443
g. Sub - Total Cost of Hydroseeding		**$562,443**
h. Total Cost of Vegetative Layer (Line 5c + 5e + 5g)		**$880,785**
6. Septage Ponds Clean Closure		
a. Septage Pond Clean Closure Cost Estimate	Engineer's Estimate 2023 * IF	601,170
b. Total Cost of Septage Pond Clean Closure (Line 6a)		**$601,170**
7. Estimated Costs for Miscellaneous Items Required to Close Landfill		
a. Additional Groundwater Monitor Well Construction	Assume groundwater wells will be installed before clos	$0
b. Additional Gas Monitor Well Construction	Assume gas wells will be installed before closure	$0
c. Drainage Improvements	Letdown structures – 2,200 LF; engineer's estimate: $70/LF slope diversion channels – 16,000 LF; engineer's estimate: $40/LF	$794,000
d. Structure Removal	$1200 (Vector 2010 CPCC) * IF	$1,684
e. Leachate Pond Closure	Engineer's Estimate	$100,000
f. Total Cost of Miscellaneous Items (Line 7a + 7b + 7c + 7d + 7e)		**$895,684**
TOTAL COST OF CLOSURE		**$5,506,628**

POST-CLOSURE CARE COSTS		
1. Post Closure Plan Preparation Cost		
a. Total Post Closure Plan Cost	Engineer's Estimate	$60,000
b. Total Cost of Post Closure Plan Preparation (Line 1a)		**$60,000**
I. Environmental Monitoring		
2. Groundwater Monitoring (Semi-Annual)		
a. Annual groundwater monitoring costs	A Groundwater Monitoring Program (GMP) for the Mohave Valley Landfill is being develop by the County under a separate permit modification.	$0
b. Total Cost of Groundwater Monitoring (Line 2a)		**$0**
3. Groundwater Well Maintenance		
a. Annual groundwater monitoring costs	A Groundwater Monitoring Program (GMP) for the Mohave Valley Landfill is being develop by the County under a separate permit modification.	$0
b. Total Cost of Groundwater Maintenance (Line 3a)		**$0**
4. Leachate Sampling and Testing (Annual)		
a. Number of samples	Engineer's Estimate	4
b. Sampling and Testing Costs per Sample	Engineer's Estimate	$2,500
c. Frequency of sampling per year	Engineer's Estimate	2
d. Sub-total Annual Sampling and Testing Cost (Line 4a x 4b x 4c)		**$20,000**
5. Leachate Management System Operation and Maintenance		
a. Average Monthly Electric Bill for LCRS	Engineer's Estimate	$250
b. Months per year		12
c. Sub-Total Annual Electric Bill (Line 4a x 4b)		$3,000
d. Annual Estimate Cost of System Maintenance	Engineer's Estimate	$13,000
e. Pump Replacement	Engineer's Estimate, 1 / 10 yr, $10,000 each	$2,000
f. Sub-Total Estimated Cost of Operating and Maintaining LCRS (Line 5c + 5d + 5e)		**$16,000**
6. Landfill Gas Monitoring		
a. Inspection	$18000 (Vector 2010 CPCC) * IF / 30yr	$842
b. Gas monitoring wells replacement	$52500 (Vector 2010 CPCC) * IF / 30yr	$2,456
c. Gas monitoring	$252000 (Vector 2010 CPCC) * IF / 30yr	$11,788
d. GCCS O&M	Engineer's Estimate	$102,000
e. LFG well replacement	Engineer's Estimate, 1 / 3yr, $50,000 each	$16,667
f. Flare replacement	Engineer's Estimate, 1 / 20yr, $500,000 each	$25,000
g. Air permitting	Engineer's Estimate	$45,000
h. Sub-Total Annual LFG Monitoring and Reporting (Line 6a + 6b + 6c + 6d + 6e + 6f + 6g)		**$203,752**
II. Landfill Routine Site Inspections and Surface Maintenance		
7. Post-Closure Care Inspection (Assume Semi-annual) and Maintenance and Repair of Final Cover and Drainage		
a Estimated Cost for Post-Closure Care Inspection of Entire Site	Engineer's Estimate	$3,000
b. Annual Frequency	According to Vector 2011 SWFP	2
c. Annual Inspection Costs Post-closure Care	(Line 1a x 1b)	$6,000
d. Number of years in Post-closure Period	According to 40 CFR § 258.61	30
e. Cost to Conduct Inspections over the Post-closure Care Period	(Line 1c x 1d)	$180,000
f. Estimated Annual Final Cover Repair Cost	30% of Closure Cost #4 and 5 / 30	$28,863
g. Maintenance of drainage	50 hrs of equipment with operator x $200 hrs	$10,000
h. Total Annual Landfill Surface Inspection and maintenance Cost (Line 7e + 7f + 7g)		**$44,863**
TOTAL ANNUAL COST OF POST CLOSURE CARE		**$344,615**

Mohave Valley Landfill
Summary of Estimated Closure & Post-Closure Costs
Novemeber 2025

TABLE 1. CLOSURE COSTS ESTIMATES

I. Final Cover System Design and Construction

Line	Item	Estimated Costs
1c	Engineering, Design, CQA and Testing Services	$580,000
2	Contractor Mobilization	$262,220
3c	Grading and Surface Preparation	$281,221
4i	1.5 FT. Thick Compacted Barrier Layer	$2,005,548
5g	0.5 FT. Thick Cover / Vegetative Layer	$880,785
6b	Septage Ponds Closure	$601,170
7f	Estimated Costs for Miscellaneous Items Required to Close Landfill	$895,684
	Total Estimated Closure Costs, as of Novemeber 2025	**$5,506,628**

TABLE 2. POST-CLOSURE CARE COST SUMMARY

Line	Item	Estimated Costs
1b	Post Closure Plan	$60,000

I. Environmental Monitoring (Annual Costs)

Line	Item	Estimated Costs
2b	Groundwater Monitoring (Semi-Annual)	$0
3b	Groundwater Well Maintenance	$0
4d	Leachate Sampling and Testing (Annual)	$20,000
5f	Leachate Management System Operation and Maintenance	$16,000
6h	Landfill Gas Monitoring	$203,752
	Sub-Total	**$239,752**

II. Landfill Routine Site Inspections and Surface Maintenance (Annual Costs)

Line	Item	Estimated Costs
7h	Post-Closure Care Inspection (Assume Quarterly) and Maintenance and Repair of Final Cover and Drainage	$44,863
	Sub-Total	**$44,863**
	Total Estimated Annual Post-Closure, as of November 2025 (Post Closure Plan is not included)	**$284,615**
	Post-Closure Care Period (years)	**30**
	Total Estimated Post-Closure Costs for a period of 30 years, as of November 2025 (Post Closure Plan is included)	**$8,598,450**
	Total Closure and Post-Closure Care Cost Estimate as of November 2025	**$14,105,078**

Notes:

1) Costs are based on Inflation Factor calculations based on Table 1.1.9 Implicit Price Deflator for Gross Domestic Product, United States Bureau of Economic Analysis, unless stated otherwise
2) Rates include recordkeeping and reporting services.
3) We combined the inflation factor with the original cost estimates from the "Closure and Post-Closure Cost Estimate" prepared by Vector on June 11, 2010, in cases where RSMeans data were not available. To update these historical figures to 2025 values, we applied the Implicit Price Deflator, an economic tool that adjusts costs for inflation and changes in the purchasing power of money. This approach provides realistic and current values for these specific costs.

Appendix L-2

Financial Assurance Demonstration

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 W. Washington St.
Suite 160
Phoenix, AZ 85007
602-771-2300

KATIE HOBBS
GOVERNOR

KAREN PETERS
DIRECTOR

VIA EMAIL

May 12, 2025
REF: PRU25-078

Mr. Luke G. Mournian, Chief Financial Officer
Mohave County Financial Services
PO Box 7000
Kingman, AZ 86402

Re: Annual Update Approval, Fiscal Year 2024 Financial Assurance Demonstration; Mohave Valley Landfill; Place ID 832; License Time Frames Number 109330.

Dear Mr. Mournian:

The Arizona Department of Environmental Quality (ADEQ), Solid Waste Unit, has received your fiscal year 2024 financial assurance submittal for the Mohave Valley Landfill. ADEQ's review of this application was subject to the requirements of the licensing time frames (LTF) statute under Arizona Revised Statutes (A.R.S.) § 41-1072 through § 41-1079 and the LTF rules under Arizona Administrative Code (A.A.C.) R18-1-501 through R18-1-525. ADEQ has reviewed the cost estimates for closure and post-closure as well as the financial mechanism presented to meet those costs.

The financial assurance for the Mohave Valley Landfill is in the form of a Local Government Financial Test. The amounts are as follows:

Landfill	Closure Cost	Post-Closure Cost
Mohave Valley	$3,770,116	$1,834,275

ADEQ has reviewed the financial mechanism presented to meet those costs and determined that it complies with the requirements of A.R.S. § 49-770 and 40 CFR 258, Subpart G. Therefore, ADEQ approves the FY2024 financial assurance demonstration for the Mohave Valley Landfill. The financial assurance demonstration for FY 2025 is due on December 31, 2025.

This decision is an appealable agency action under A.R.S. § 41-1092. You have a right to request a hearing and file an appeal under A.R.S. § 41-1092.03(B). You must file a written *Request for Hearing* or *Notice of Appeal* within 30 days of your receipt of this letter. A *Request for Hearing* or *Notice of Appeal* is filed when it is received by ADEQ's Hearing Administrator at the following address:

Hearing Administrator
Office of Administrative Counsel

Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

The *Request for Hearing* or *Notice of Appeal* shall identify the party, the party's address, the agency and the action being appealed and shall contain a concise statement of the reasons for the appeal. Upon proper filing of a *Request for Hearing* or *Notice of Appeal*, ADEQ will serve a *Notice of Hearing* on all parties to the appeal. If you file a timely *Request for Hearing* or *Notice of Appeal* you have a right to request an informal settlement conference with ADEQ under A.R.S. § 41-1092.06. This request must be made in writing no later than 20 days before a scheduled hearing and must be filed with the Hearing Administrator at the above address.

If you have any questions regarding this letter, please contact Marina Meza, of my staff, at (602) 771-4670 or at solidwastepermits@azdeq.gov.

Sincerely,

Signed by:
Samantha Roberts
864294D0822F47B...
Samantha Roberts, Manager
Solid/Hazardous Waste Section
Waste Programs Division

cc: Facility File

Appendix M

Stormwater Pollution Prevention Plan (SWPP)

MOHAVE COUNTY PUBLIC WORKS

3875 E. Andy Devine Avenue, Suite C
P.O. Box 7000 KINGMAN, ARIZONA 86402-7000
TELEPHONE (520) 757-0910 FAX (520) 757-0912 TDD 753-0726 E-MAIL mohave@kingman.com

Richard A. Skalicky, P.E. Director/County Engineer
M. P. Hendrix, P.E. Asst. Director
Asst. Co. Engineer B. M. Elters, P.E
Flood Control K. Budhecha, P.E.
County Surveyor David Stretton R. t.. S.
Improvement Districts Z. Wright

March 6, 1998

Mr. Robert Wilson, Storm Water Coordinator
Arizona Department of Environmental Quality
3033 North Central Avenue
Phoenix, Arizona 85012

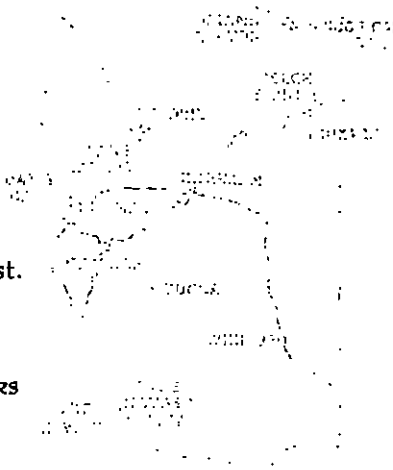
Encl: Storm Water Pollution Prevention Plan

Mr. Wilson:

Please find enclosed the Storm Water Pollution Prevention Plan for Mohave Valley Landfill. This plan is submitted by Vector Engineering, Inc. on behalf of Mohave County Arizona, Owner, and Mesa Disposal, Inc., Operator, of the cited Landfill.

Respectfully,

Linda La Porte, Office Asst.
for
Michael P. Hendrix, P.E.
Asst. Director Public Works



FILE COPY

C:\MyFiles\Mohave Vly LF\StormWaterPlan.wpd

Mesa Disposal Inc.

967 Hancock Rd. Suite 141
Bullhead City, AZ. 86442
(520) 758-0000 Fax (520) 758-2680

February 11, 1998

Mohave County Public Works
3675 Andy Devine Ave Suite C
Kingman, AZ. 86401

Attention : Michael P Hendrix, P.E.
Assistant Director

Subject : Storm Water Pollution Prevention Plan -- Mohave Valley Landfill

References : A) Storm Water Pollution Prevention Plan Dated Jan 1998

Dear Mr. Hendrix:

Attached please find two copies of the reference A plan outlining the stormwater pollution prevention practices at the Mohave Valley Landfill. One copy of this document should be forwarded to :

Arizona Department of Environmental Quality
Office of Water Quality
3003 North Central Ave
Phoenix, AZ 85012
Attention: Robert Wilson
Storm Water Coordinator

The second copy should be retained for your files.

As you can see by inspection of the document, the requirements are rather complicated. We will achieve compliance with the plan by creating an operating procedure and train the landfill employees on the requirements. We will submit this procedure in the near future.

It is our understanding that the Notice of Intent (NOI) has already been filed. The submission of this document should complete this permit item.

FILE COPY

If you have any questions or require further information, please advise.

Sincerely,

John P. Mieding, P.E.
General Manager

cc: Chrono file
Permit file
E Nikirk, Vector Engineering
G Brown, ADEQ SWPRU

STORM WATER POLLUTION PREVENTION PLAN

for the

MOHAVE VALLEY SANITARY LANDFILL

Mohave County, Arizona

prepared for:

MESA DISPOSAL, INC.
967 Hancock Road, Suite 141
Bullhead City, Arizona, 86442
(520) 758-0000

and

THE COUNTY OF MOHAVE
3675 E. Andy Devine, Suite C
Kingman, Arizona 86401
(520) 757-0910

prepared by:

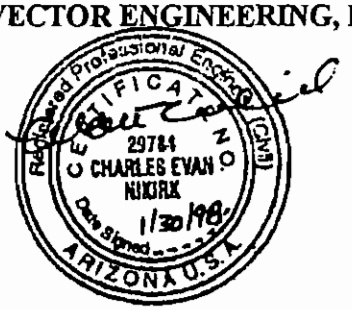
VECTOR ENGINEERING, INC.
1601 Fairview Avenue, Suite H
Carson City, Nevada 89701
(702) 883-7065

Project No. 965014.02 (9)
January, 1998

SIGNATURE PAGE

This Storm Water Pollution Prevention Plan was prepared in accordance with generally accepted civil, environmental, and geotechnical engineering practices applicable at the time the report was prepared. Vector Engineering, Inc. (Vector), makes no other warranties, either expressed or implied, as to the professional advice provided under the terms of this agreement and as described in this report. The enclosed report, figures, drawings, and supporting documentation were prepared either directly by, or under the direct supervision of, the undersigned professional engineer. This document was prepared to satisfy the requirements of the National Pollutant Discharge Elimination System (NPDES), for general permitting of discharges associated with industrial activities, and those established by the Arizona Department of Environmental Quality, Office of Water Quality.

VECTOR ENGINEERING, INC.



Evan Nikirk, R.C.E. No. 29784
Project Manager

TABLE OF CONTENTS

Page

1.0 INTRODUCTION AND CERTIFICATION 1

2.0 FACILITY DESCRIPTION 3
- 2.1 Climate 3
- 2.2 Geography and Vegetation 3
- 2.3 Site Soils 3
- 2.4 Facility Operations 4
- 2.5 Waste Characterization 4
  - 2.5.1 Household Waste (40 CFR 258.2) 5
  - 2.5.2 Construction and Demolition Debris 5
  - 2.5.3 Green Waste 5
  - 2.5.4 White Goods 5
  - 2.5.5 Tires 5
  - 2.5.6 Batteries 6
  - 2.5.7 Dead Animals 6
  - 2.5.8 Sewage Sludge 6
  - 2.5.9 Septage 6
  - 2.5.10 Pesticide and Other Empty Containers 7
  - 2.5.11 Medical Waste (ARS 49-701.20) 7

3.0 POLLUTION PREVENTION TEAM 8

4.0 POTENTIAL POLLUTANT SOURCES 8
- 4.1 Drainage 8
- 4.2. Inventory of Exposed Materials 9
  - 4.2.1 Sediment and Solid Waste 10
  - 4.2.2 Septage Drying Ponds 12
  - 4.2.3 Flammable and Hazardous Materials 12
- 4.3 Spills and Leaks 13
- 4.4 Existing Sampling Data 13
- 4.5 Risk Identification 13

5.0 MEASURES AND CONTROLS 13
- 5.1 Good Housekeeping 13
- 5.2 Waste Stream Inspection 14
- 5.3 Preventive Maintenance 15
- 5.4 . Spill Prevention and Response 15
  - 5.4.1 Discovery of Unknown Waste Material 16
  - 5.4.2 Release of Hazardous and Toxic Materials 16
- 5.5 Periodic Site Inspections 16
- 5.6 Employee Training 16
- 5.7 Recordkeeping 17
- 5.8 Non-Storm Water Discharges 18

TABLE OF CONTENTS (cont.)

Page

5.9 Erosion Control and Run-off Management 18
5.9.1 Perimeter Drainage 18
5.9.2 Waste Footprint Drainage 18
5.9.3 Berms 19
5.9.4 Silt Fences and Sedimentation Basins 19
5.9.5 General Erosion Control Methods 19

6.0 SITE COMPLIANCE EVALUATIONS 20

7.0 STORM WATER SAMPLING AND MONITORING 20
7.1 Analytical Monitoring Requirements 21
7.1.1 Analysis Requirements 21
7.1.2 Sampling Procedures 21
7.1.3 Sampling Waivers 21
7.1.4 Reporting Discharge Monitoring Results 23
7.2 Quarterly Visual Examination of Storm Water Quality 24
7.2.1 Visual Observation Requirements 24
7.2.2 Waivers for Visual Monitoring 24

8.0 CERTIFICATION 25

9.0 REFERENCES 26

LIST OF TABLES

		Page
Table 1	Flammable and Hazardous Materials List	11
Table 2	Timeline for Storm Water Pollution Prevention Monitoring Tasks	17
Table 3	Storm Water Discharge Bi-Annual Monitoring Requirements	22

LIST OF APPENDICES

		Page
Appendix 1	Notice of Intent	attached
Appendix 2	Facility Design Drawings	attached

1.0 INTRODUCTION AND CERTIFICATION

As required by the 1987 amendments to the Clean Water Act, in November 1990, the United States Environmental Protection Agency initiated the National Pollutant Discharge Elimination System (NPDES) storm water permitting program. Under the program, NPDES permits are required for storm water associated with industrial activity, including landfills that accept waste generated by industrial processes.

In partial fulfillment of the requirements of the NPDES Multi-Sector General Permit, a Notice of Intent to discharge storm water from the Mohave Valley Sanitary Landfill has been submitted to the EPA and Arizona Department of Environmental Quality (ADEQ). A copy of the Notice of Intent prepared and submitted by the Mohave County Department of Public Works has been included in Appendix 1. Additional requirements for inclusion under the Multi-Sector General Permit include the development and implementation of a Storm Water Pollution Prevention Plan (SWPPP). Therefore, this SWPPP has been developed and implemented at the Mohave Valley Sanitary Landfill by the landfill operator, Mesa Disposal, Inc.

This SWPPP for the Mohave Valley Sanitary Landfill describes the local environment, activities occurring at the site, the potential for storm water pollution, management practices that will be employed to minimize storm water pollution, required monitoring and reporting activities, and the individuals responsible for implementation of the plan. Based on procedures outlined in this SWPPP, the plan will be updated annually as required. Therefore, personnel responsible for its implementation should review the plan on an annual basis. A full set of facility design drawings has been included in Appendix 2 to provide a comprehensive understanding of the existing site drainage, as well as the storm water management system design for future operations.

A copy of the SWPPP will be maintained on-site at all times and made available to facility personnel for review on an as-needed basis. All SWPPP applications, reports, monitoring data and certifications will be maintained in the facility operating record and will be made available to the public and to the Director of the NPDES or authorized representatives of the County and ADEQ when requested.

Storm Water Pollution Prevention Plan Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11 FEB 98

John P. Mieding, P.E.
General Manager
Mesa Disposal, Inc.

Date

2.0 FACILITY DESCRIPTION

The Mohave Valley Sanitary Landfill is a municipal solid waste landfill located on El Rodeo Road approximately 4.5 miles east of Arizona State Route 95 in Mohave County, Arizona. The El Rodeo Road and Highway 95 junction is located approximately two miles south of the city limits of Bullhead City, Arizona, in northwestern Arizona. Drawing 1 in Appendix 2 illustrates the general site location and surrounding area. The landfill property is described as the NW¼, section 21, Township 19 North, Range 21 West, Gila and Salt River Base Line and Meridian. Property boundaries for the site encompass approximately 160 acres.

2.1 Climate

The Mohave Valley Sanitary Landfill is located in the Sonoran Desert. The climate in this region is characterized by very low average annual precipitation, very high annual evaporation, and large temperature extremes with extremely hot summers. Based on climatological data for Davis Dam, located approximately 12 miles north of the site, the average annual precipitation for the site is approximately 4.2 inches per year (Sellers and Hill, 1974). Summer storms can be severe with intense rains and high winds. In the twenty-four year period extending from 1949 to 1972, annual precipitation failed to total more than two inches during five different years, and a total of only 0.07 inches was recorded in 1956. Based on Sellers and Hill (1974), the average annual pan evaporation rate at Davis Dam is 154 inches per year, second only to Death Valley in the United States. Temperatures in the Mohave Valley range from 41°F to 80°F in the winter months and 71°F to 112°F in the summer months. The area experiences an average of 117 days per year when temperatures exceed 100°F, and only three days per year when the temperature drops below 32°F.

2.2 Geography and Vegetation

The landfill is located within the Mohave Valley, a northwest trending alluvial valley within the Basin and Range Physiographic Province. The topography in the vicinity of the site is represented by very uniform terrain. The site is situated on an alluvial fan having a gradual slope of approximately three percent from northeast to southwest in the vicinity of the landfill. The primary geologic features in the vicinity of the landfill are the Black Mountains and the Mohave Valley Basin. The predominant vegetation types in the vicinity of the Mohave Valley Sanitary Landfill include Creosote Bush, White Bursage, White Brittlebush, and Triangle Bursage. The density of vegetative cover is typically less than ten percent.

2.3 Site Soils

Soils in the vicinity of the Mohave Valley Sanitary Landfill possess physical properties that are typical of alluvial fans with slopes of less than five percent. According to a soil survey of Mohave County by Richmond and Richardson (1974), the general area containing the landfill is characterized by predominantly hyperthermic, arid soils. This is a broad grouping of soils with mean annual soil temperatures of more than 72° F that are subject to less than 10 inches of annual precipitation.

The soils in the area are generally referred to as Chuckawalla soils, which are characterized as deep, well-drained soil formed in mixed alluvium and derived predominantly from andesite and granite. Typically, the surface is covered with 85 to 95 percent pebbles and is generally a very pale brown color. The upper 15 inches of soil is composed of very gravelly silt loam and very gravelly clay loam. These surface layers are underlain to a depth of 60 inches or greater by stratified sandy loam, fine sandy loam, or gravelly sandy loam substrata with thin layers of silt loam, loamy sand, or gravelly loamy sand. The permeability of this soil is reported as moderately slow (Richmond and Richardson, 1974). Run-off is rapid, and the hazard of water or wind erosion is slight.

2.4 Facility Operations

The Mohave Valley Sanitary Landfill is owned by the County of Mohave and operated under contract by Mesa Disposal, Inc. The majority of daily landfill operations includes the excavation of future landfill cells and the disposal, compaction, and covering of municipal solid waste. Additional activities which occur at the site include waste tire disposal, recycling, septage drying and disposal, temporary waste oil and battery storage, and equipment maintenance. The site was originally operated using the trench method of disposal in a series of parallel, un-lined trenches. Disposal operations subsequently progressed above ground surface in a vertical expansion over the established footprint utilizing the area-fill method of disposal. Cover soil was excavated from a soil borrow area south of, and adjacent to, the current disposal area. A new disposal cell was recently excavated by the site operator and is expected to provide disposal capacity for a minimum of 21 years. Soil which is excavated from a disposal cell and is not immediately needed is temporarily stockpiled on site for later use as daily cover, final cover upon closure of the cell, or as fill for miscellaneous projects on site. Soil stockpiles will reach heights of up to 40 feet with sideslopes of 3:1, horizontal to vertical, or flatter.

2.5 Waste Characterization

This section describes the wastes accepted at the facility, as well as procedures for the acceptance of special wastes. The following types of wastes are accepted for disposal at the Mohave Valley Sanitary Landfill:

- household waste as defined in 40 CFR 258.2;
- construction and demolition debris (with the exception of asbestos);
- green waste, wood and brush waste;
- white goods;
- tires;
- batteries;
- dead animals;
- sewage sludge (from WWTP);
- septage (pumpings from septic tanks);
- pesticide and other empty containers; and,
- medical waste as defined in A.R.S. 49-701.20.

The following types of wastes are not accepted for disposal at the Mohave Valley Sanitary Landfill:

- automobiles;
- asbestos (friable and non-friable);
- special waste petroleum contaminated soil;
- solid waste petroleum contaminated soil;
- industrial and commercial process waste (liquid and solid);
- hazardous waste from households and conditional exempted small quantity generators.

2.5.1 Household Waste (40 CFR 258.2)

Municipal solid waste including household waste, commercial solid waste, and industrial solid waste as defined in 40 CFR 258.2, is accepted for disposal at the Mohave Valley Sanitary Landfill. Household waste typically originates from single- and multi-family dwellings. This waste is primarily composed of paper, green waste, glass, food waste, and plastics. The commercial and industrial solid waste typically originates from offices, retail establishments, manufacturing plants, and processing facilities.

2.5.2 Construction and Demolition Debris

Construction and demolition debris that does not include asbestos (friable or non-friable) is accepted for disposal at the facility. This includes waste building materials, packaging and rubble resulting from construction, remodeling, repair, and demolition operations of pavements, houses, buildings, and other structures. Construction debris is worked into the active face of the landfill with municipal solid waste.

2.5.3 Green Waste

Yard clippings, brush, and other green wastes are accepted for disposal at the facility. These wastes are disposed of at the working face with the municipal solid waste. If incoming volumes of green waste warrant consideration, composting of yard waste may be instituted or other recycling methods explored.

2.5.4 White Goods

White goods are accepted for disposal or recycling at the facility. A temporary storage area has been designated for large appliances which possess a cost-effective economic value. These items will be stored pending shipment to a recycler. Items for which recycling is not economically feasible will be crushed and disposed of at the active disposal face. Appliances which may contain refrigerants (i.e., household freezers, refrigerators, and air conditioners) will be inspected to verify that the refrigerant is recovered prior to acceptance for recycling or disposal. The removal of any refrigerant will be completed by a certified technician, as defined by 40 CFR 82.

2.5.5 Tires

Waste tires are accepted for disposal at the facility, which has been registered with the state as a Waste Tire Collection Site, in accordance with ARS 44-1303. Whole tires accepted

for recycling are stored on-site in a designated location with adequate aisle space and fire breaks. Arrangements are periodically made for a mechanical shredder, chopper, or cutter to physically alter the tires for off-site recycling or on-site disposal. The Mohave Valley Sanitary Landfill maintains a separate disposal cell for on-site tire disposal. Tires stored at the facility are managed to minimize ponding or accumulation of water and the potential for fire.

2.5.6 Batteries

Lead acid batteries, as defined in ARS 44-1321, are not accepted for disposal at the facility. However, the landfill provides an area for temporary storage of lead acid batteries for recycling. As a contingency, the landfill has been registered with the state as a collection/transfer facility in the event that any lead acid batteries are found in the waste stream. Lead acid batteries which are stored at the facility for recycling will be segregated in a secured area near the entrance to the facility. The batteries will be stored off the ground and in an upright position on a storage pad. There will be no recycling, dismantling, or reuse of batteries at the landfill. At such time as sufficient numbers of batteries are collected, Mesa Disposal will arrange for their shipment to an authorized recycling facility, battery manufacturer, permitted secondary shelter, or their authorized agents. Any leaking batteries which are detected will be placed in a small compatible container and filled with vermiculite, or other absorbent.

2.5.7 Dead Animals

Dead animals from the household waste stream are accepted for disposal at the facility. Any dead animals deposited on the working face of the landfill, as part of the household waste stream, will be immediately covered within the working face. Larger dead animals will also be covered with 24 inches of waste or soil immediately after disposal at the working face of the current waste management unit.

2.5.8 Sewage Sludge

Sewage sludge is conditionally accepted for disposal at the facility. Prior to acceptance, Mesa Disposal will require that the generator or an agent of the generator provide a manifest and documentation which adequately profiles the waste. The waste will only be accepted if it passes the Paint Filter Test (EPA Test Method 9095), TCLP waste characterization test (EPA Test Method 1311), and the generator has provided documentation that the waste is not a hazardous waste. For on-going customers, Mesa Disposal will require the generator to complete a TCLP test for metals (EPA Test Method 1311). After initial acceptance, Mesa Disposal will require the generator of the waste to complete a quarterly analysis. Mesa Disposal will require the generator to inform Mesa Disposal if there has been a material change in the waste source or processing; if so, Mesa Disposal will then require a new characterization. All waste transported to the site will be manifested. Accepted sewage sludge will be incorporated into the working face and may be mixed with other municipal waste.

2.5.9 Septage

Septage derived from septic tank pumpings, motor homes, and other residential sources is accepted for disposal at the facility in one of two active disposal ponds at the Mohave Valley Sanitary Landfill. Customer vehicles discharge their loads into the active disposal pond

(Pond 1 or Pond 2). The disposal pond is filled to an optimum level, which is a function of the amount of solids existing in the pond, the daily volume received at the pond, and the season (summer or winter). Typically, the optimum operating level of the ponds is between four and six feet, but can vary to a maximum depth of eight feet. Ponds 2 and 3 are lined to a depth of 10 feet; however, at least one foot of freeboard is required for rainfall and soil wicking of moisture up the side slopes.

Pond levels are controlled by pumping off liquids to the evaporation pond (Pond 3). Pump suction is drawn from the surface of the pond to ensure liquids (not solids) are removed to the evaporation pond. Liquids transferred to the evaporation pond are routed through a spray bar suspended over the pond surface. The use of the spray bar aerates the incoming liquid and enhances evaporation.

The liquid level in the evaporation pond is maintained as high as possible to maximize surface area and potential evaporation, but does not exceed nine feet in total fluid depth. When the active pond is full of solids, discharge activity is shifted to the other pond (Pond 1 or 2). Free water is pumped from the surface of the pond, and the solids left to dry. The drying cycle in the inactive pond takes approximately six to nine months, depending on weather. Dry solids may be removed from the pond to expose wet solids and promote the drying process. Dry solids removed from the pond are disposed of at the working face of the landfill. Solids must pass the "Paint Filter Test" (EPA method 9095) to ensure they do not contain any free liquids in order to be accepted for disposal. Solids are covered on a daily basis as described in the solid waste handling procedures.

2.5.10 Pesticide and Other Empty Containers

Pesticides and other empty containers which are disposed in accordance with ADEQ regulations are conditionally accepted for disposal at the facility. The pesticide containers are disposed in accordance with R18-8-513, which requires containers of a certain size to be triple-rinsed and either crushed or punctured. Pesticide containers in the form of bags or packages are either to be folded and tied, or enclosed in a secondary container that is appropriately labeled. Empty pesticide containers and other containers which do not contain free liquids are incorporated into the working face of the landfill with the municipal waste. Pesticide containers that are determined to be unacceptable for disposal, or that are found in the waste mass, are routed to the Apex Regional Waste Management Center, located in Las Vegas, Nevada, for proper disposal.

2.5.11 Medical Waste (ARS 49-701.20)

The Mohave Valley Sanitary Landfill does not accept medical wastes that are deposited in containers with other solid wastes. The facility only accepts medical waste in plastic Red Bags which are identified as potential bio-hazards. Medical waste associated with the plastic Red Bag program does not qualify as a special waste, and is disposed of with municipal solid waste.

3.0 POLLUTION PREVENTION TEAM

Mesa Disposal, Inc., and the County of Mohave are responsible for the development, implementation, maintenance, and revision of the SWPPP. The following list of individuals are responsible for carrying out the requirements presented in this document. This includes maintaining an up-to-date Storm Water Monitoring & Reporting Program and Storm Water Pollution Prevention Plan. Titles associated with particular certifications and/or proper actions required by the Storm Water Permitting Regulations are listed below. The following list is current as of January, 1998:

Title	Associated Individual	Responsibilities
Landfill Operations Manager Mesa Disposal, Inc.	John P. Mieding, P.E.	Coordinate all elements of plan development and implementation. Responsible for inspections, report preparation, spill response coordination, and signatory authority.
Landfill Foreman	Michael Coates	Site Inspections, Plan compliance, reporting, recordkeeping.

4.0 POTENTIAL POLLUTANT SOURCES

The pollutant that has the greatest potential to be present in storm water discharges from the site is sediment. Above-grade slopes that are formed as a part of landfill operations pose a potential threat for sediment contamination of surface water run-off. Other pollutants that may be present in storm water in minor quantities could include refuse, leachate, and fuels or lubricants from landfill equipment and storage areas. Storm water contamination from these sources is not expected since these areas are covered, partially surrounded by soil berms, and/or are provided with secondary containment.

4.1 Drainage

A major characteristic of an operating landfill is the constant soil excavation and waste filling, resulting in continuous changes in run-off patterns from active work areas. Due to the progressive development of waste disposal cells, drainage control facilities will be constructed in phases throughout the active life of the Mohave Valley Sanitary Landfill. Current configurations and future drainage control networks are presented on Drawings 1 through 11 in Appendix 2. Specific drainage control measures for the various facilities present at the Mohave Valley Sanitary Landfill are described in Section 6.0 below.

Surface water flows naturally from the northeast to the southwest in the vicinity of the Mohave Valley Sanitary Landfill. A drainage diversion channel will be constructed outside of the facility's eastern property boundary on a right-of-way obtained from the United States Bureau of Land Management. The diversion channel will intercept and redirect potential ephemeral flows

originating in off-site washes around the landfill facility. These diverted flows will be returned to their original natural channels at the southern and western property boundaries. Drawings 6 and 8 in Appendix 2 illustrate the design and location of the diversion channel.

As described above, the landfill is operated using the area-fill method of disposal, and has been designed as a series of parallel excavations (Drawing 5, Appendix 2). Initially, run-off from the active disposal cell (Cell 9) will not affect off-site water quality because the active cell is designed to channel all run-off into the lowest part of the operating cell. Ponding water in the cell will either infiltrate into the subsurface or evaporate. As waste fill is brought above grade in each successive disposal cell, run-off collected from landfill surfaces in a given cell will continue to be diverted to the base of excavation. However, when the toe of waste placement reaches the western toe of a given cell excavation, all storm water run-off will be diverted into perimeter channels and routed to the permanent sedimentation basin constructed at the southwest corner of the site. The permanent sedimentation basin will be installed during the initial stages of Cell 009C operations (Drawings 5 and 7, Appendix 2), which is expected to commence in the year 2011, assuming a seven-year disposal life each for Cells 009A and 009B. Prior to that, a temporary retention basin will be constructed to the west of Cell 009 for the storage, infiltration, and evaporation of storm water run-off collected from landfill surfaces within the existing waste footprint. The location of the temporary basin is shown on Drawings 3 and 4.

At closure, the top deck of the landfill will be divided into a series of surface planes which will be constructed in a ridge and swale configuration to collect and control storm water run-off. Each pair of adjacent ridges will provide a hydrologic boundary, and surfaces will be sloped toward a drainage swale located halfway between the ridges; five distinct drainage basins will be created in this manner on the top deck. Each drainage swale will be constructed with an erosion mat or geotextile overlain by rip-rap lining to provide erosion protection. The drainage swales will route surface flows toward the west end of each basin where a soil headwall berm will collect and concentrate surface and channel flows into a CMP downdrain. Due to the energy generated by water flowing down the 33 percent slope, a tee section will be installed at the bottom of each downdrain and a discharge apron will be constructed in the receiving channel to minimize erosion. The network of downdrains and headwall berms will minimize scouring of sideslopes due to storm water run-off by reducing the potential for sheet flows. In addition, the facility design includes the construction of maintenance benches at approximately every 30 to 40 vertical feet. These benches provide additional slope stability, access for slope maintenance, and drainage collection from sideslope areas; trapezoidal channels or v-ditches will be installed along the inside shoulder of each bench.

4.2 Inventory of Exposed Materials

Materials that could potentially come into contact with storm water run-off are as follows:

- Sediment - Continuous earthwork construction including cell excavation, waste filling operations, soil stockpiles, and access road construction, exposes large areas of disturbed native soil which could contribute sediments to storm water;
- Solid Waste - Solid waste poses a water-borne litter and leachate generation potential in the event that exposed areas of waste are impacted by rainfall;

- Septage Drying Ponds - Three septage drying ponds are located within the landfill property and are designed to contain the volume of precipitation resulting from a 100-year, 24-hour storm event; and,
- Flammable and Hazardous Materials are known to be stored on-site in significant quantities. Table 1 presents an inventory of Flammable and Hazardous Materials known to be stored at the Mohave Valley Sanitary Landfill.

4.2.1 Sediment and Solid Waste

As mentioned in Section 2.2, each municipal solid waste disposal cell will be excavated to a maximum of 60 feet below ground surface and filled to approximately 30 to 50 feet above ground surface. The base of each disposal cell will be sloped to the west. The lowest part of Cell 9, the current operating cell, will be used for the next 14 years as a run-off collection basin for run-off generated within Cell 9. As filling in Cell 9 progresses, additional drainage networks on the top, sides, and perimeter of the waste mass will be constructed to divert run-off into the bottom of Cell 9. Run-off from closed Cells 1 through 6 and 8 (Drawing 5, Appendix 2) will be routed to a temporary sedimentation basin located just west of Cell 9. The outfall from the temporary sedimentation basin has been designated as Sampling Point #2 in this Plan.

When the leading edge of the waste mass approaches the western end of Cell 9 in approximately 14 years, run-off from previously-filled cells and Cell 9 will be diverted to a sedimentation basin constructed in the southwest corner of the site. The sedimentation basin has been designed with sufficient freeboard to control a 24-hour, 100-year storm event for the entire waste footprint at closure. The outfall from this permanent sedimentation basin has been designated as Sampling Point #1. Storm water management for future waste cells will follow a similar pattern of waste placement and drainage system construction. The western end of each newly-excavated cell will be used as a run-off basin until the active disposal face encroaches on the storm water storage capacity of the cell, at which time run-off from the cell will be diverted into the sedimentation basin located at the southwest corner of the facility. From a daily operations standpoint, potential run-off flows which may come into contact with exposed waste at the active disposal face will be contained. Temporary berms are constructed around the active disposal area and the public and commercial tipping areas are graded to direct run-off away from the active face. Any ponding water in the active disposal area is allowed to evaporate. These measures should ensure that contact waters are contained in the active disposal area and do not enter the facility's storm water management system. As a result, storm water which may be contaminated through contact with municipal waste will not be discharged from the facility into off-site drainage channels.

In addition to the disposal of municipal solid waste and septage, the Mohave Valley Sanitary Landfill also monofills waste tires. Tires are initially stockpiled until a sufficient number have accumulated to warrant hiring a tire shredder. Stockpiled tires are then shredded and placed into an excavated cell used exclusively for tire disposal. Run-off from the temporary tire stockpile is contained by a down-slope soil berm designed to contain the predicted flow resulting from a 24-hour, 100-year storm event. The up-slope portion of the monofill has been bermed to prevent run-on flows from impacted the disposal cell. Storm flows entering the monofill cell from sideslope run-off or direct precipitation will either evaporate or infiltrate into

Table 1. Flammable & Hazardous Materials List
Mohave Valley Sanitary Landfill

Material Description	Storage Method	Inventory		ADEQ Reportable Spill Quantity
		Max.	Avg.	
Diesel Fuel	10,000 gal. double wall portable tank located on top of bermed concrete pad	10,000 gals.	5,000 gals.	100 lbs. / 15 gals.
Engine Oil (15W-40)	55 gal. drum stored on bermed concrete pad and service truck	4 drums	2 drums	100 lbs. / 15 gals.
Gear Oil (95W-140)	55 gal. Drum stored on bermed concrete pad	2 drums	1 drum	100 lbs. / 15 gals.
Engine Coolant (50 percent Glycol / 50 percent Water)	55 gal. Drum stored on bermed concrete pad	2 drums	1 drum	Below reportable limits
Chasis Grease	55 gal. drum stored on bermed concrete pad	1 drum	1 drum	100 lbs. / 15 gals.
Brake Fluid	1 gal. can stored in service shed	1 can	1 can	Below reportable limits
Auto Trans. Fluid	1 quart bottles stored in service shed	12 bottles	6 bottles	Below reportable limits
Brake Cleaner	16 oz. spray can stored in service shed	12 cans	6 cans	Below reportable limits
Gasoline	5 gal. jerry can stored in service shed	2 cans	1 can	Below reportable limits
Spray Paint	16 oz spray can stored in service shed	12 cans	6 cans	Below reportable limits

the subsurface. Based on this design, there will be no storm water run-off from the waste tire stockpile area or monofill cell.

Large soil stockpiles will be located along the western boundary of the Mohave Valley Sanitary Landfill. These soil stockpiles will be present during the landfill's operating life and post-closure maintenance period. All soil stockpiles will be moderately compacted to avoid excessive fugitive dust generation and erosion caused by wind or precipitation. Silt fences will surround the downstream portions of each soil stockpile to minimize the amount of sediment in the run-off. Channels and berms up-slope of the soil stockpiles associated with the landfill design will minimize potential run-on flows. V-ditches and sediment traps will be constructed on the downslope side of the soil stockpiles to minimize sediment in discharges. Run-off from these stockpiles will initially be discharged into natural washes along the western boundary of the landfill. Following the construction of the permanent sedimentation basin in the southwest corner of the site, all run-off from the facility, including on-site soil stockpiles, will be routed through the permanent sedimentation basin and past Sampling Point #1 prior to exiting the site. Based on the drainage system design, there may be some surface storm water discharge from the soil stockpiles into natural drainage channels during the next 14 years of operation. However, sediment carried in this run-off will be minimized by employing and maintaining silt fences and sediment traps. During the operating life and the post-closure maintenance period, natural revegetation processes will be encouraged to stabilize the slopes of the remaining soil stockpiles.

Access roads at the Mohave Valley Sanitary Landfill will be constructed with adjacent v-ditches and drainage channels. As the waste footprint expands, additional engineered drainage facilities will be installed. In addition to diverting run-off from closed landfill areas, the adjacent drainage channels will also route flows from the site access roads. To minimize erosion and dust on the access roads, portions of the road have been paved and other parts have been compacted and covered with crushed asphalt pavement. Continual maintenance of the access roads during the operating life and post-closure maintenance period will ensure that dust generation and soil erosion will not become a problem.

4.2.2 Septage Drying Ponds

All septage ponds are, and will continue to be, contained by soil berms. The soil berms divert any potential run-on from entering the septage evaporation ponds. The only storm water entering the ponds will result from direct precipitation falling within the pond perimeter as defined by the berm crest. Based on the pond design, surface storm water discharge will not come into contact with the contents of the septage drying ponds and contact water will not be discharged from the site.

4.2.3 Flammable and Hazardous Materials

Run-off from maintenance, recycling and machinery storage areas at the Mohave Valley Sanitary Landfill will be contained by down-slope berms having sufficient free board to contain a 24-hour, 100-year storm event. Potential run-on flows will be diverted around each of these areas by the construction and maintenance of up-gradient soil berms. Any ponding water in the bermed area will be allowed to evaporate. Based on this design, there is expected to be no

surface storm water discharge from the facility associated with run-off from the maintenance, recycling or machinery storage areas at the Mohave Valley Sanitary Landfill. The used oil/suspect waste, fuel, and battery storage facilities have either secondary containment or are covered. In addition, these facilities are surrounded by both up-slope and down-slope berms designed to divert potential run-on flows around each site and contain a 24-hour, 100-year storm event. Any ponding water in the secondary containment or bermed areas will be allowed to evaporate. Based on this design, there is expected to be no storm water run-off from the used oil/suspect waste, fuel and battery storage facilities.

4.3 Spills and Leaks

Spills and leaks of fuels or lubricants may occur at the landfill during regular maintenance, and/or operation of landfill vehicles. There have not been any known significant leaks or spills in areas of the landfill that are exposed to precipitation or that otherwise drain to a storm water conveyance.

4.4 Existing Sampling Data

No perennial streams or other naturally-occurring water bodies are located within the landfill boundaries. To date, no storm water discharge sampling or analysis has been performed.

4.5 Risk Identification

A list of pollutant sources is provided in Sections 4.2 and 6.0 of this SWPPP. Risk of impact to surface water during a major storm event is significant for erosion, which could result in siltation and sedimentation of downstream washes. Risk of impacts from contaminants other than soil is considered to be low due to effective on-site storage and management practices.

In addition to the known pollutant sources, as identified above, there is a very small risk of surface water contamination from undiscovered or illegally-deposited hazardous waste. This risk is considered minimal because of the management and operational procedures that are in-place to mitigate the inadvertent acceptance of any hazardous waste, as well as the placement of daily, interim, and/or final cover over waste disposed of at the landfill. Visual inspection of incoming waste loads has been established as the primary means for identifying and removing hazardous wastes from the incoming waste stream.

5.0 MEASURES AND CONTROLS

A number of preventative measures and controls are employed at the Mohave Valley Sanitary Landfill to minimize storm water pollution. The following sections describe these practices.

5.1 Good Housekeeping

Good housekeeping is employed at the Mohave Valley Sanitary Landfill and begins with the direction, education, and commitment of the management team at the facility. Good housekeeping is viewed as the primary means for reducing the potential for storm water pollution from on-site flammable and hazardous materials and solid waste contaminants. Good housekeeping methods employed at the landfill include:

- Daily placement of cover over compacted refuse to prevent litter, odors, emergence of vectors, and migration of pollutants off-site;
- Watering and compaction of haul roads on the landfill site to prevent dust generation and soil erosion;
- Direct-line fueling and lubrication of landfill equipment to prevent spills;
- Daily inspection of all equipment for leaks and placement of drip pans under equipment with persistent leaks until repairs can be made;
- Products used on-site will be stored in their original containers with the original manufacturer's label, in a neat, orderly manner, and if possible, under cover or in a secondary containment structure;
- Implementation of a load-checking program to prevent the disposal of hazardous materials at the site;
- Prohibition of on-site washing of refuse vehicles;
- Appropriate management of wastes that are suspected of being hazardous materials, including provisions for temporary storage and ultimate off-site disposal of materials that are found to be hazardous;
- Inspection and maintenance of storm water management structures; and,
- Slope maintenance and promotion of native vegetation growth to increase slope stabilization and minimize the potential for erosion.

5.2 Waste Stream Inspection

Waste stream inspection is employed to prevent the disposal of hazardous or PCB wastes. Owners and operators of all municipal solid waste landfills are required to implement a program for detecting and preventing the disposal of regulated hazardous waste. The hazardous waste exclusion program must also be applied to polychlorinated biphenyl (PCB) wastes. As such, Mesa Disposal will satisfy the requirements of hazardous and PCB waste exclusion through the implementation of several procedures at the facility. These procedures are briefly described below, and are discussed in further detail in the facility's Plan of Operations.

Inspections for hazardous and PCB wastes consist of continuous monitoring at the working face and random inspections of refuse vehicles at a designated location near the discharge area. Landfill equipment operators and trained inspectors continuously monitor incoming waste loads as they are discharged at the active disposal face. In addition to continuous monitoring, random formal inspections of waste haul vehicles are performed. Formal inspections consist of selecting a refuse vehicle at random to be inspected. The vehicle is directed to a pre-determined location to discharge its waste load. The load is spread as required to facilitate inspection of the entire load. Any material failing to meet the acceptability criteria shall be considered "suspect wastes." All suspect wastes shall be returned to the hauler with an explanation of why the material was rejected. Suggestions and referrals to appropriate disposal facilities will be made whenever possible. Any suspect wastes discovered at the active face for which the hauler cannot be identified will be stored in the Suspect Materials Storage Area for identification and proper disposal. The process of waste stream inspection will help to eliminate

potential pollution problems in storm water run-off associated with regulated hazardous and PCB wastes.

5.3 Preventive Maintenance

A preventive maintenance program will be implemented to ensure that site storm water management structures will function properly during storm events. The program involves the periodic inspection and maintenance of storm water conveyance systems that could fail and result in the discharge of polluted storm water from the site. The landfill drainage system consists of:

- top deck drainage swales;
- sideslope benches with v-ditches and overside drains;
- lined and unlined perimeter collection channels;
- sedimentation basin with a standpipe outlet structure; and,
- culverts for off-site discharge.

The drainage system will be routinely inspected, evaluated, and repaired as necessary for the effects of erosion and standing water, sediment blockage in conveyance structures, and sediment build up in the sedimentation basin and sediment traps. The storm water conveyance system and sedimentation basin will be inspected monthly, or within 24 hours after each major storm event that produces storm water discharge. Damage to drainage facilities will be repaired and restored immediately following detection. The sedimentation basin will be dredged as needed to maximize retention capacity.

5.4 Spill Prevention and Response

In addition to good housekeeping management practices discussed earlier, the following spill prevention management practices will be employed.

- All on-site vehicles will be monitored for leaks and will receive regular maintenance to reduce the possibility of leakage;
- All fueling and lubrication of landfill vehicles will take place in specified containment areas;
- Petroleum and paint products will be properly stored in tightly-sealed containers which are clearly labeled;
- Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies;
- Materials and equipment required for spill cleanup will be maintained in the on-site material storage area; and,
- All spills will be cleaned up immediately by properly-trained personnel upon discovery.

5.4.1 Discovery of Unknown Waste Material

In the event that a liquid waste or containerized waste is identified at the working face, the material will be isolated and removed to the temporary on-site hazardous waste storage area for further inspection by trained personnel. If the material is suspected of being hazardous, a hazardous waste transport and disposal facility may be contacted to conduct testing and removal for proper disposal. If the waste is determined to be non-hazardous, it will be disposed of either in the septage pond (for liquids) or at the working face (for solids). Within 30 days of an incident, a report will be submitted to the Arizona Department of Environmental Quality (ADEQ) and entered into the operating record for the site. A contingency plan that addresses the handling procedures for hazardous and other unacceptable wastes is discussed in further detail in the facility's Plan of Operations.

5.4.2 Release of Hazardous and Toxic Materials

In the event of an accidental on-site spill, trained site personnel will attempt to identify the spilled material and clean it up using proper procedures. If the clean-up is beyond the capacity of trained on-site personnel, Mesa Disposal will immediately contact a company specializing in hazardous waste handling (or the Fort Mohave Fire Department, if applicable) to identify and clean up the spill.

In the event of a release, full documentation will be initiated at the first report of the incident. The incident coordinator will be encouraged to tape record his/her actions and communications so that transcripts can be made for insurance and legal purposes. These records will be entered into the Operating Record of the Mohave Valley Sanitary Landfill and reported to ADEQ and Mohave County Public Works Department. In addition, the incident coordinator will immediately notify the ADEQ Water Pollution Compliance Unit in the event that any portion of the Hazardous Materials Incident Contingency Plan is activated. Documentation of the release will be kept on file with the Mohave Valley Sanitary Landfill SWPPP, and information regarding the release will be included in the annual storm water pollution prevention report.

5.5 Periodic Site Inspections

As mentioned in Section 5.2, the storm water conveyance system and siltation fencing at the landfill will be inspected for evidence of erosion, ponding, blockage, and other damage. The storm water conveyance system and siltation fencing will be inspected monthly, or within 24 hours after each major storm event that produces a storm water discharge. Inspections and monitoring tasks are outlined in Table 2, Timeline for Storm Water Pollution Prevention Monitoring Tasks.

5.6 Employee Training

Annual employee training will be conducted and will cover all aspects of the SWPPP, including good housekeeping, spill response, cleaning, best material management practices and record-keeping practices. Records of annual employee training will be maintained in the facility operating record.

Table 2. Timeline for Storm Water Pollution Prevention Monitoring Tasks
Mohave Valley Sanitary Landfill

TASK	Annual Site Compliance Inspection	Periodic Site Inspections	Sampling 2nd & 4th Year	Annual Discharge Monitoring Report	Pollutant Analysis
TO BE PERFORMED BY	Landfill Operations Manager	Manager's Designee	Manager's Designee	Landfill Operations Manager	Manager's Designee
SEASON Month					
Jan. - Mar.		Monthly or within 24 hours of a significant storm event	A minimum of one grab sample from each sampling point.	Should be postmarked no later than the 31st of March, and include DMRs for each outfall and sampling event.	Monitoring requirements in the 2nd and 4th year: Total Suspended Solids (TSS) Total Recoverable Iron
Apr. - Jun.		Monthly or within 24 hours of a significant storm event	A minimum of one grab sample from each sampling point.		4th year monitoring requirements can be waved if 2nd year monitoring results were below Cut Off Concentrations (2)
Jul. - Sep.		Monthly or within 24 hours of a significant storm event	A minimum of one grab sample from each sampling point.		
Oct. - Dec.	X(1)	Monthly or within 24 hours of a significant storm event	A minimum of one grab sample from each sampling point.		

Notes:
1. Annual site compliance inspections may be done at anytime; however, for convenience and effectiveness they should be conducted in conjunction with one of the periodic site inspections during the wet season.
2. See Table 3. Storm Water Discharge Quarterly Monitoring Requirements.

5.7 Record-keeping

Records will be maintained for all site inspections, incidents which involve non-compliance spills or releases, site monitoring data, suggested corrective actions and documentation that recommended actions were performed. Records will also be maintained that describe the quantity and quality of any monitored storm water discharge.

5.8 Non-Storm Water Discharges

Non-storm water discharges have been eliminated by prohibiting washing or rinsing of any refuse haul vehicles on-site. Washing and rinsing of all landfill operations equipment will only be allowed in the vehicle maintenance area which is contained by a soil berm. Any water ponding in the containment berm will be allowed to evaporate.

5.9 Erosion Control and Run-off Management

Construction industry Best Management Practices (BMP) will be utilized to mitigate sedimentation and prevent erosion where possible. As described above, a system of drainage networks and berms will be progressively modified as the waste footprint expands. The objective of the drainage system is to minimize erosion of the cover soil over each cell and to control and/or eliminate any potential run-off containing pollutants or large amounts of sediment. The following sub-sections describe the methods employed for run-off management.

5.9.1 Perimeter Drainage

Drainage facilities will be constructed to divert run-on flows around the Mohave Valley Sanitary Landfill. Surface water flows naturally from the northeast to the southwest in the vicinity of the landfill. By diverting potential run-on flows around the facility and routing them back to their original channels, the potential impacts to storm water quality due to activities within the landfill are minimized. Construction plans and details of the lined trapezoidal diversion channel are presented on Drawings 6 and 8. The channel will be constructed in two phases to accommodate disposal cell construction, which will progress from north to south. Both phases of the diversion channel and its associated culverts will be constructed as part of facility operations.

5.9.2 Waste Footprint Drainage

As previously discussed, run-off from the active disposal cell will drain into the base of the cell for the next 14 years. During this time, run-off from the closed potions of the landfill will be routed into a temporary sedimentation basin located adjacent to, and west of, the existing disposal cell (Cell 9). After 14 years, run-off from closed landfill cells, covered surfaces of the Cell 9 waste mass, and the remainder of the site will be directed to the permanent storm water sedimentation basin in the southwest corner of the site. Based on this design, there will be no storm water discharge off-site from the waste footprint for the first 14 years. After 14 years, storm water discharge will occur from the outlet of the sedimentation basin. To minimize the amount of sediment in the effluent from the storm water sedimentation basin, the following construction procedures will be employed:

- drainage channels will be constructed adjacent to site access roads around the perimeter of the waste footprint;
- the top deck of the waste fill will be constructed with a series of ridges and swales;
- each drainage swale will be constructed with an erosion mat or geotextile fabric overlain by rip-rap lining to provide erosion protection;

- drainage swales will route surface flows toward the west end of each cell or group of cells where an earthen headwall berm will collect and concentrate surface and channel flows;
- downdrains will carry water from the headwall berms on the landfill's top deck to perimeter drains at ground surface;
- lined perimeter channels will route all storm water run-off from the top and sides of the fill to the bottom of an active cell or to the storm water sedimentation basin; and,
- natural revegetation processes will be encouraged on all disturbed soils to minimize the possibility of erosion.

The system of swales and soil headwalls on the top deck of the fill will minimize the potential for sediment transport by limiting the distance of overland flow. The use of downdrains to transport flows over the sideslopes will minimize erosion. Perimeter channels will divert water away from the fill area avoiding any potential erosion at grade level. Finally, the storm water sedimentation basin will allow sediment to settle out before run-off is discharged into natural channels downstream.

5.9.3 Berms

To eliminate run-off from various storage facilities and operations areas at the Mohave Valley Sanitary Landfill, berms will be placed up-slope of each area to divert run-on. In addition, the berms will be constructed down-slope of each area and will provide a storage capacity which is sufficient to contain the predicted flows resulting from a 24-hour, 100-year precipitation event. With evaporation rates well above 100 inches per year and moderately permeable soils in the area, any water ponding in bermed areas should either evaporate or infiltrate into the subsurface. In addition to berms used to prevent run-off, the used oil/suspect waste and fuel storage facilities are provided with secondary containment structures. Therefore, the potential for storm water pollution from these sites is negligible.

5.9.4 Silt Fences and Sedimentation Basins

All soil stockpiles will be moderately compacted and slopes track-walked with a dozer perpendicular to grade to detain flows, thus encouraging infiltration of precipitation. Silt fences will be placed to the west of each soil stockpile and downstream v-ditches will be equipped with sediment traps. V-ditches will divert run-off from the stockpiles to the sedimentation basin before being discharged to natural drainage channels. Silt fences and sediment traps will be inspected, repaired, and cleaned, if necessary, once per month or after any significant precipitation event which generates run-off. Natural revegetation processes will be encouraged on all soil stockpiles.

5.9.5 General Erosion Control Methods

Additional storm water management practices that will be employed at the landfill include:

- periodic silt removal from the erosion control structures;

- placement and maintenance of erosion and siltation control devices within the daily cover excavation area during the wet season;
- placement of daily cover on waste piles to prevent water-borne litter or the potential for leachate generation;
- on-going maintenance of temporary slopes in the waste disposal area to prevent erosion of daily and intermediate cover; and,
- on-going maintenance of all access roads to minimize potential for fugitive dust generation and sediment entrainment during a run-off event.

6.0 SITE COMPLIANCE EVALUATIONS

Annual site compliance evaluations will be performed and will consist of site inspections, plan evaluation, and plan revisions. Activities which will be included in the site inspection are briefly described below.

- Areas which contribute to the storm water discharge will be inspected to identify potential pollutant sources and noncompliance discharges which may have developed since the previous evaluation.
- Measures designed and implemented to reduce pollutant loading will be evaluated to determine their effectiveness.
- Storm water management and sediment control structures will be inspected to ensure that they are operating correctly.
- Available quarterly sampling data and quarterly visual observation reports will be evaluated to help determine the effectiveness of current pollution prevention measures.

Recommendations for improved plan efficiency and effectiveness will be made as necessary based on the results of the inspections. The SWPPP will be modified to reflect these recommendations and the recommendations will be implemented in a timely manner. A report summarizing the scope of the inspection, personnel making the inspection, the date of the inspection, major observations relating to the implementation of the SWPPP, and actions taken to improve the effectiveness of the plan will be prepared and included as part of the SWPPP.

In addition, the annual report will identify any incidents of noncompliance and corrective actions taken to obtain compliance with the current SWPPP. Noncompliance includes, but is not limited to, spills, non-storm water discharges, and situations that may lead to non-compliance. Where a report does not identify any incidences of non-compliance, the report shall contain a signed certification that the Mohave Valley Sanitary Landfill is in compliance with the SWPPP.

7.0 STORM WATER SAMPLING AND MONITORING

The Storm Water Pollution Prevention Team Leader, specified in Section 3.0, will be responsible for ensuring that sampling procedures and protocol are followed during storm event sampling. Based on procedures outlined by the Storm Water Multi-Sector General Permit (Federal Register, Vol. 60, No. 189), monitoring will be accomplished in three steps. These three steps consist of quarterly analytical monitoring, quarterly observations, and annual site compliance evaluations. Procedures for the annual site compliance evaluation were outlined in Section 6.0. Procedures for

quarterly analytical monitoring and quarterly observations are discussed in the following sections. Table 2 contains a schedule of required SWPPP monitoring. Drawing 6 shows the locations from which all samples will be obtained.

7.1 Analytical Monitoring Requirements

Storm water discharges will be sampled on a quarterly basis, except as may be provided by a sampling waiver, during the second and fourth year of permit issuance. Data provided with the sampling report will include: the date and duration of the storm event; sampling location; measured precipitation; the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and, an estimate of the total volume of discharge sampled. Sampling will be conducted in each of the following periods: January through March; April through June; July through September; and, October through December.

7.1.1 Analysis Requirements

In accordance with the final requirements for the Multi-Sector General Permit, analyses of the storm water discharge will include testing for Total Suspended Solids (TSS, in milligrams per liter, mg/L), and Total Recoverable Iron (in mg/L).

7.1.2 Sampling Procedures

A minimum of one grab sample shall be taken from the appropriate sampling point. All such samples will be collected from the discharge which results from a storm event producing greater than 0.1 inch of precipitation and that occurs at least 72 hours from a previously measurable storm event (greater than 0.1 inch). The grab sample will be taken during the first 30 minutes of the discharge. If the collection of a grab sample in the first 30 minutes is impracticable, a grab sample will be taken during the first hour of the discharge, and the Mohave Valley Sanitary Landfill will submit with the Discharge Monitoring Report Form a description of why a grab sample during the first 30 minutes was impracticable.

Sampling Point #2 (Drawing 6), which receives run-off from the soil stockpiles, is expected to be the only sampling point with significant landfill activity for the next 14 years. Therefore, all sampling data will be obtained from this point until the sedimentation basin in the southwest corner of the landfill is completed. Upon completion of the permanent sedimentation basin (Sampling Point #1, Drawing 6), which will eventually receive run-off from the entire facility, grab samples will only be taken from Sampling Point #1. Justification for this action and requirements for representative sampling are discussed in the following section.

7.1.3 Sampling Waivers

Adverse Conditions - When sampling is not possible within a specific sampling period due to adverse climatic conditions, the collection of substitute samples will be attempted from a separate qualifying event in the next period. The data from the substitute sampling event, together with a description of why the samples could not be collected in the previous sampling period, will be submitted with the routine sample data for the current sampling period. Adverse weather conditions that may prohibit the collection of samples include those which create dangerous conditions for personnel or otherwise make collection of a sample impracticable.

Adverse conditions may include flooding, high winds, electrical storms, and other conditions that present unreasonable danger for sample collection. Other conditions that may preclude sampling may include drought or extended frozen conditions.

Low Concentration - A low concentration waiver may be used to eliminate monitoring of one or both of the analysis requirements in the fourth year of the permit. When the average concentration for a pollutant calculated from all monitoring data collected from a sampling point during the second year monitoring period is less than the Cut-Off Concentration for the specific pollutant, then monitoring and reporting requirements for the specific pollutant may be waived in the fourth year monitoring period. Table 3 lists the pollutants that are required to be monitored in the second and fourth years of permit issuance and their respective Cut-Off Concentrations.

Table 3. Storm Water Discharge Bi-Annual Monitoring Requirements
Mohave Valley Sanitary Landfill

Pollutants of Concern	Cut-Off Concentration
Total Suspended Solids (TSS)	100 mg/L
Total Recoverable Iron	1.0 mg/L

In lieu of existing monitoring data, the Mohave Valley Sanitary Landfill will submit certification (see Section 8.0) that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility which drains to Sampling Point #2, for which sampling has been waived.

Representative Discharge - The current design of the drainage system allows for two discharge sampling points, Sampling Points #1 and #2, for run-off derived from active areas of the landfill. However, the two sampling points will be effective during different times of the landfill's active life and post-closure period. For the next 14 years, run-off from disturbed and active areas of the landfill will be routed to the base of Cell 9, and eventually to a temporary sedimentation basin just west of Cell 9. Consequently, the only discharge off-site from an active area of the landfill during the next 14 years will be associated with the soil stockpiles west of Sampling Point #2 (Drawing 5). The only potential pollutant expected in run-off from the stockpiles is sediment. Following the completion of filling activities in Cell 9 in approximately 14 years, run-off from the entire facility including covered surfaces of the active disposal cell, closed waste cells, and soil stockpiles, will be routed to a permanent sedimentation basin (Sampling Point #1) to be constructed in the southwest corner of the site. Once the sedimentation basin is in use, representative samples will be obtained from Sampling Point #1 (Drawings 5 and 6). Based on the relative potential impact of the different activities performed at the landfill and the presence of secondary containment and berms around potential hazardous contaminant pollution sources, it is reasonable to expect that the pollutant content of run-off arriving at both discharge sampling points will be similar and will consist mainly of sediment.

In lieu of submitting sampling data for Sampling Point #1 during the next 14 years of landfill operation, the following will be submitted with each Discharge Monitoring Report for Sampling Point #2:

- a description of the location of the outfall not sampled (Sampling Point #1);
- an explanation of why both outfalls are expected to discharge substantially identical effluents; and,
- an estimate of the size of the drainage area and runoff coefficient.

Due to the relatively high percentage of the landfill property that will have been disturbed over the life of the facility, the final landfill surface is expected to have a high run-off coefficient, possibly greater than 65 percent.

Alternative Certification - If it can be shown that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, or significant materials from past industrial activity are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period, then the Mohave Valley Sanitary Landfill may not be subject to the chemical monitoring requirements. In lieu of submitting required monitoring data, a certification (see Section 8.0) for a given outfall, or a certification developed on a pollutant by pollutant basis must be retained in the facility operating record with the SWPPP and submitted to ADEQ and the EPA in place of required sampling data.

7.1.4 Reporting Discharge Monitoring Results

The Mohave Valley Sanitary Landfill will submit discharge monitoring results obtained during the reporting period in the second year of permit issuance for each discharge sampling point associated with industrial activity or, a certification in accordance with the acceptable waivers described above. The monitoring report will be submitted to the Director of the NPDES program on Discharge Monitoring Report Forms no later than the 31st day of the following March. In addition, monitoring results obtained during the fourth year of permit issuance, or waiver certifications, will be submitted on Discharge Monitoring Report Forms postmarked no later than the 31st day of the following March. For each discharge sampling point, one Discharge Monitoring Report Form will be submitted per storm event sampled. Signed copies of Discharge Monitoring Reports, or waiver certifications, shall be submitted to the Director of the NPDES program at:

United States EPA Region IX
Water Management Division, (W-5-1), Storm Water Staff
75 Hawthorne Street, San Francisco, California 94105

and to the Arizona State Storm Water Coordinator at:

Arizona Department of Environmental Quality
P.O. Box 600
Phoenix, Arizona 85001-0600

7.2 Quarterly Visual Examination of Storm Water Quality

The Mohave Valley Sanitary Landfill will perform and document quarterly visual examinations of storm water discharges associated with industrial activity from each discharge sampling point, except exempt discharges as described below. The examination will be made during daylight hours unless there is insufficient rainfall to produce run-off.

For the next 14 years, Sampling Point #2 (Drawing 5), which receives run-off from soil stockpiles along the western site boundary, is expected to be the only discharge sampling point with significant landfill activity. Therefore, Sampling Point #2 will be visually examined on a quarterly basis until the sedimentation basin in the southwest corner of the landfill is completed. Following completion of the sedimentation basin, which will receive run-off from the entire facility, visual examinations will only be performed at Sampling Point #1. Justification for this sampling schedule is discussed in Section 7.2.2.

Visual examinations of storm water quality will be conducted in each of the following periods: January through March; April through June; July through September; and October through December.

7.2.1 Visual Observation Requirements

Visual examinations will consist of acquiring a sample of storm water discharge within the first 30 minutes of discharge from the sedimentation basins, or as soon as is practical, but not to exceed one hour. The examinations will be conducted in a well lit area and will document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. All such samples will be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where practicable, the same individual may carry out the collection and examination of discharges for the entire permit term. Analytical tests will not be performed on samples collected during quarterly visual inspections. Analytical testing is described in Section 7.1.

Visual examination reports will be maintained in the facility operating record with the SWPPP. Reports will include the examination date and time, personnel conducting the examination, the nature of the discharge (run-off or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination. Information contained in quarterly reports will be used in the annual site compliance evaluation report to determine effectiveness of current storm water pollution prevention program.

7.2.2 Waivers from Visual Monitoring

Adverse Conditions - If weather conditions prevent the visual examination of storm water discharge from an outfall, the Mohave Valley Sanitary Landfill will document the reason for not performing the visual examination and will retain this document on-site with the

records of the visual examinations. Adverse weather conditions which may prohibit the examination of storm water discharges include weather conditions that create dangerous conditions for personnel or otherwise make collection of a sample impracticable. If visual monitoring is not performed because storm events do not occur during a particular quarter, the precipitation record will be documented and will be retained with this plan.

Representative Discharge - The current design of the drainage system allows for two discharge points, Sampling Points #1 and #2 (Drawings 5 and 6), for run-off derived from active areas of the landfill. However, the two sampling points will be effective during different times of the landfill's active life and post-closure period. For the next 14 years, run-off from disturbed and active areas of the landfill will be routed to the base of Cell 9, and eventually to a temporary sedimentation basin just west of Cell 9. Consequently, the only potential off-site discharge from an active area of the landfill during the next 14 years will be associated with the soil stockpiles west of Sampling Point #2 (Drawing 5). The only pollutant expected in run-off from the stockpiles is sediment. Following the completion of filling activities in Cell 9 in approximately 14 years, run-off from the entire facility including covered surfaces of the active disposal cell, closed waste cells, and soil stockpiles, will be routed to a permanent sedimentation basin (Sampling Point #1) to be constructed in the southwest corner of the site. Once the sedimentation basin is in use, representative samples will be obtained from Sampling Point #1 (Drawings 5 and 6). Based on the relative potential impact of the different activities performed at the landfill and the presence of secondary containment and berms around potential hazardous contaminant pollution sources, it is reasonable to expect that the pollutant content of run-off arriving at both discharge sampling points will be similar and will consist mainly of sediment.

In lieu of submitting examination data for Sampling Point #1 during the next 14 years of landfill operation, the following information will be submitted with each Discharge Monitoring Report for Sampling Point #2:

- a description of the location of the outfall (Sampling Point #1) not sampled;
- an explanation of why both outfalls are expected to discharge substantially identical effluents; and,
- an estimate of the size of the drainage area and runoff coefficient.

Due to the relatively high percentage of the landfill property that will have been disturbed over the life of the facility, the final landfill surface is expected to have a high run-off coefficient, possibly greater than 65 percent.

8.0 CERTIFICATION

All Notices of Intent, Notices of Termination, SWPPPs, reports, certifications or information either submitted to the Director, will be properly signed by an authorized representative of Mesa Disposal, Inc., the landfill operator. The current authorized individual who will certify all reports pertaining to the Mohave Valley Sanitary Landfill is:

Name:	Title:	Date:
John P. Mieding, P.E.	Operations Manager	February 5, 1998

All reports required by the permit and other information requested by the Director shall be signed by the individual listed above or by a duly authorized representative of that person. A person is a duly authorized representative only if the authorization is made in writing by the person listed above and submitted to the Director and the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility. A duly authorized representative may be either a named individual or any individual occupying a named position. If the authorization specified above changes because a different individual or position is assigned responsibility for the overall operation of the facility, a **new** Notice of Intent must be submitted to the Director prior to, or together with, any reports, information or applications which must be signed by an authorized representative. Any person signing documents will make the following certification:

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

9.0 REFERENCES

United State Environmental Protection Agency (EPA), 1992, "Final NPDES General Permits for Storm Water Discharges Associated with Industrial Activity," *Federal Register*, Vol. 57, No. 175, September 9, 1992.

United State Environmental Protection Agency (EPA), 1992, *Storm Water Management for Industrial Activities, Developing Pollution Prevention Plans and Best Management Practices*, EPA Publication No. 832-R-92-006, September, 1992.

Reynolds, S.J., 1988, *Geologic Map of Arizona*, Arizona Geological Survey Map 26.

Richmond, D.L., and Richardson, M.L., 1974, *General Soil Map and Interpretations, Mohave County, Arizona*, U.S. Department of Agriculture Soil Survey Map.

Sellers, W.D., and Hill, R.H., 1974, *Arizona Climate, 1931-1972*, Second Edition, University of Arizona Press, Tuscon, Arizona.

APPENDIX 1
Notice of Intent

THIS FORM REPLACES PREVIOUS FORM 3510-6 (8-92)
See Reverse for Instructions

Form Approved OMB No. [illegible]
Approval Expires: 8-31-98

NPDES FORM

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notice of Intent (NOI) for Storm Water Discharges Associated with Industrial Activity Under a NPDES General Permit

Submission of this Notice of Intent constitutes notice that the party identified in Section II of this form intends to be authorized by a NPDES permit issued for storm water discharges associated with industrial activity in the State identified in Section III of this form. Becoming a permittee obligates such discharger to comply such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Permit Selection: You must indicate the NPDES Storm Water general permit under which you are applying for coverage. Check one of these.

Baseline Industrial: [ ]
Baseline Construction: [ ]
Multi-Sector (Group Permit): [X]

II. Facility Operator Information

Name: COUNTY OF MOHAVE, ARIZONA
Phone: 520 757 0910
Address: 3675 E. ANDY DEVINE AVE. PO BOX 7000
Status of Owner/Operator: M
City: KINGMAN
State: AZ
ZIP Code: 86402-7000

III. Facility Site Location

Name: MOHAVE VALLEY LANDFILL
Is the facility located on Indian Lands? (Y or N): N
Address: EL RODEO ROAD
City:
State: AZ
ZIP Code: 86441
Latitude: 35 01 19
Longitude: 114 30 47
Quarter: NE
Section: 21
Township: 19 N
Range: 21 W

IV. Site Activity Information

MS4 Operator Name:
Receiving Water Body: DRY WASHES
If you are filing as a co-permittee, enter storm water general permit number:
SIC or Organized Activity Code: LF
2nds:
Is the facility required to submit monitoring data? (1, 2, 3, or 4): 2
If You Have Another Existing NPDES Permit, Enter Permit Number:

Multi-Sector Permit Applicants Only:

Based on the instructions provided in Addendum H of the Multi-Sector permit, are species identified in Addendum H or proximate to the storm water discharges to be covered under this permit, or the area of BMP construction to control these storm water discharges? (Y or N): N
Will construction (land disturbing activities) be conducted for storm water controls? (Y or N): Y
Is applicant subject to and in compliance with a written historic preservation agreement? (Y or N): Y

V. Additional Information Required for Construction Activities Only

Project Start Date:
Completion Date: 40
Estimated Area to be Disturbed (in Acres):
Is the Storm Water Pollution Prevention Plan in compliance with State and/or Local sediment and erosion plans? (Y or N): Y

VI. Certification: The certification statement in Box 1 applies to all applicants.
The certification statement in Box 2 applies only to facilities applying for the Multi-Sector storm water general permit.

BOX 1

ALL APPLICANTS:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

BOX 2

MULTI-SECTOR STORM WATER GENERAL PERMIT APPLICANTS ONLY:

I certify under penalty of law that I have read and understand the Part I.B. eligibility requirements for coverage under the Multi-Sector storm water general permit, including those requirements relating to the protection of species identified in Addendum H.

To the best of my knowledge, the discharges covered under this permit, and construction of BMP's to control storm water runoff, are not likely to and will not likely adversely affect any species identified in Addendum H of the Multi-Sector storm water general permit or are otherwise eligible for coverage due to previous authorization under the Endangered Species Act.

To the best of my knowledge, I further certify that such discharges, and construction of BMP's to control storm water runoff, do not have an effect on properties listed or eligible for listing on the National Register of Historic Places under the National Historic Preservation Act, or are otherwise eligible for coverage due to a previous agreement under the National Historic Preservation Act.

I understand that continued coverage under the Multi-Sector general permit is contingent upon maintaining eligibility as provided for in Part I.B.

Print Name: RICHARD A. SKALICKY, P.E.
Date: 06/06/96
Signature: Richard A. Skalicky

EPA Form [illegible]

DRY WELL INJECTION WELL REGISTRATION NUMBER(S):

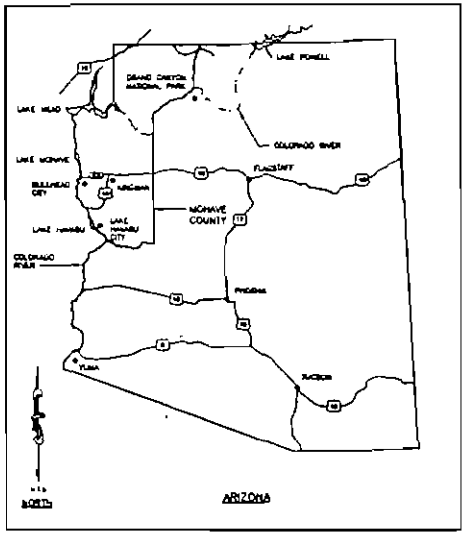
APPENDIX 2
Facility Design Drawings

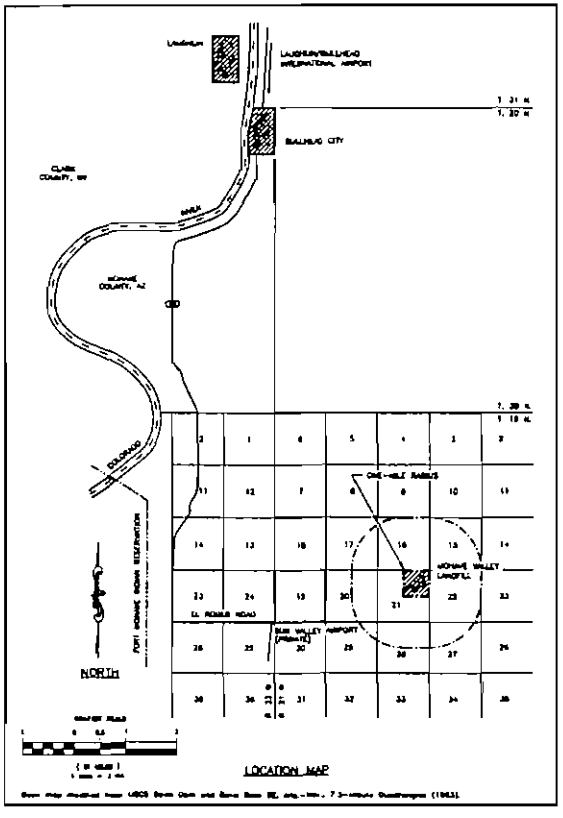
STORM WATER POLLUTION PREVENTION PLAN

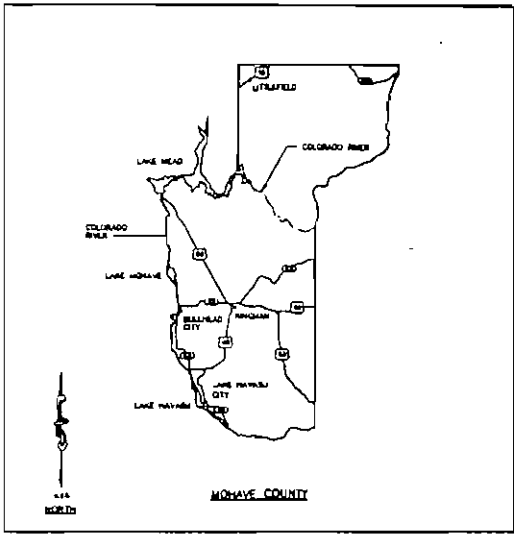
FOR THE

MOHAVE VALLEY LANDFILL

MOHAVE COUNTY, ARIZONA







INDEX OF DRAWINGS

DRAWING NO.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	EXISTING TOPOGRAPHY AND FACILITIES
3	CELL 9A EXCAVATION PLAN
4	CELL 9A FILL / CELL 9B EXCAVATION PLAN
5	FILL SEQUENCING PLAN
6	FINAL GRADING PLAN
7	CROSS SECTIONS
8	DIVERSION CHANNEL CONSTRUCTION PLAN
9	DETAILS, SHEET 1 OF 2
10	DETAILS, SHEET 2 OF 2
11	HYDROLOGIC SUB-AREA LAYOUT

DETAIL REFERENCE SYMBOL

A/9 — DETAIL DESIGNATION / DRAWING REFERENCE

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

TITLE SHEET AND LOCATION MAP

Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

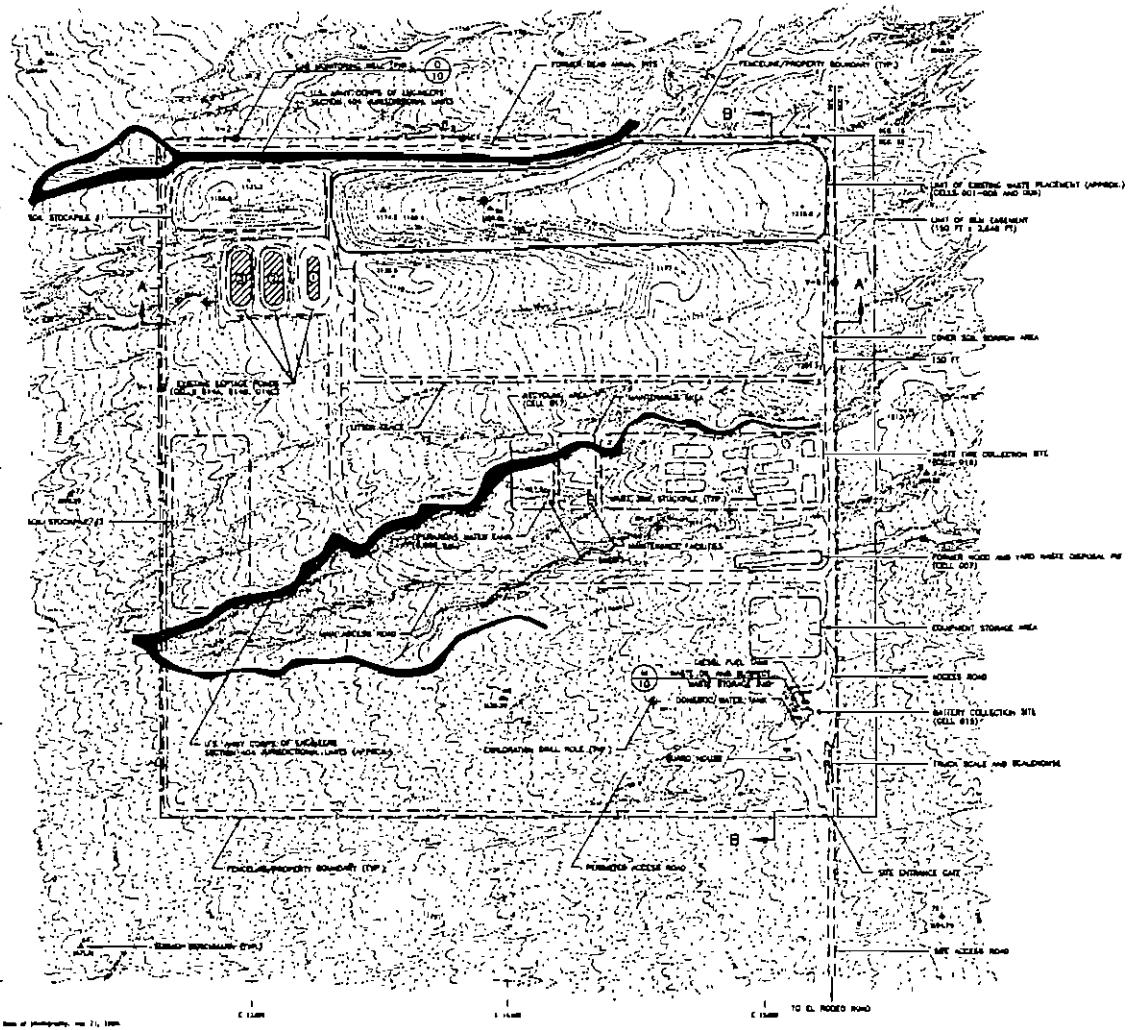
Drawing No. 1

File Name D-SW-101-B A

VECTOR ENGINEERING, INC.

Green Valley CA • El Dorado Hills CA • Carson City NV • Reno NV

1661 Fourview Dr. Suite E. Carson City, NV 89701 (702) 883-7963



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

EXISTING TOPOGRAPHY AND FACILITIES

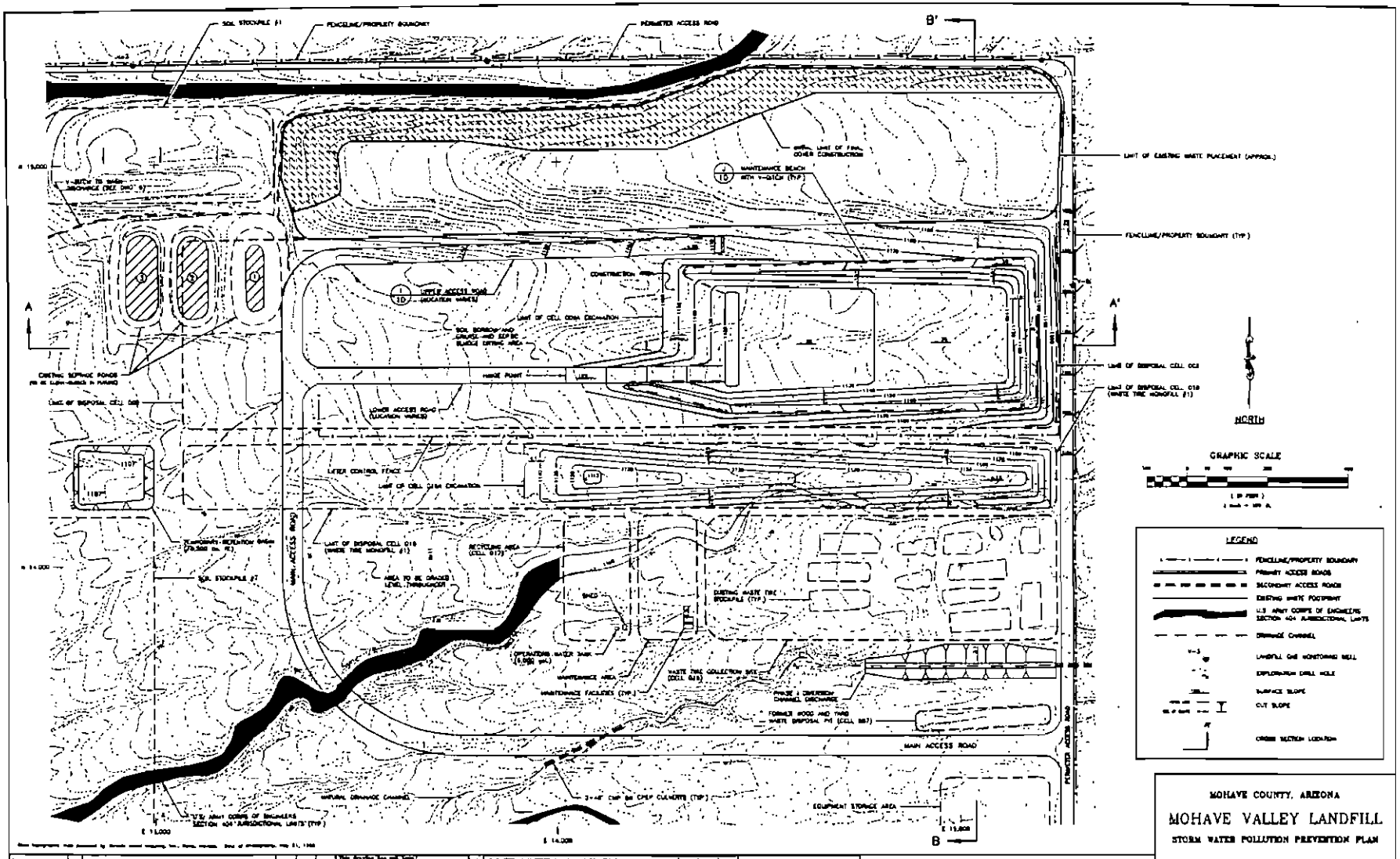
Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 2 | File Name D-9W-102-8 | A

VECTOR ENGINEERING, INC.

1601 Fairview Dr. Suite E, Carson City, NV 89701 (702) 883-7865



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

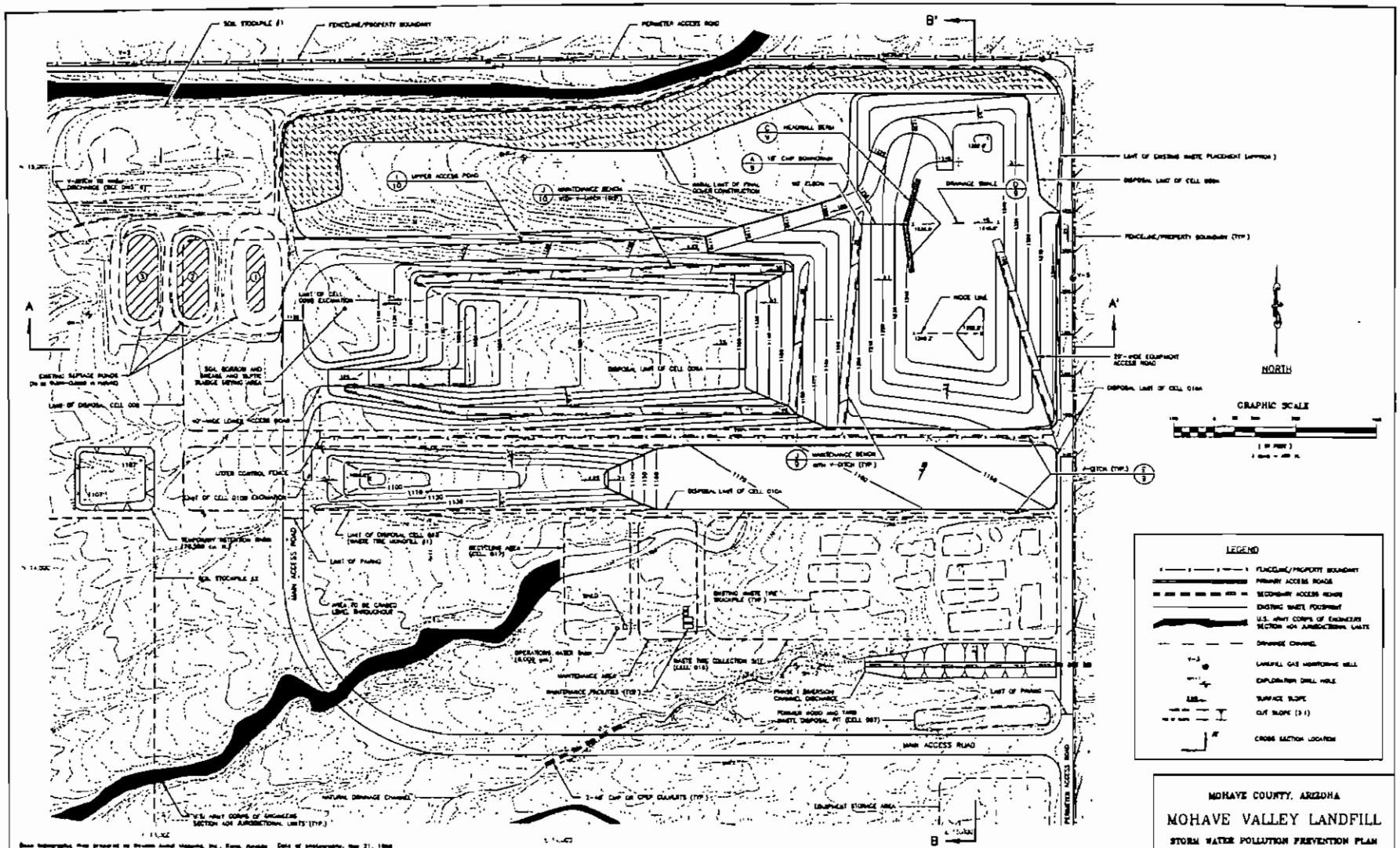
CELL 9A EXCAVATION PLAN

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W

Drawing No. 3 | File Name: D-SW-103-C | A

VECTOR ENGINEERING, INC.

1681 Fairview Dr. Suite H, Carson City, NV 89701 (702) 883-7988



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

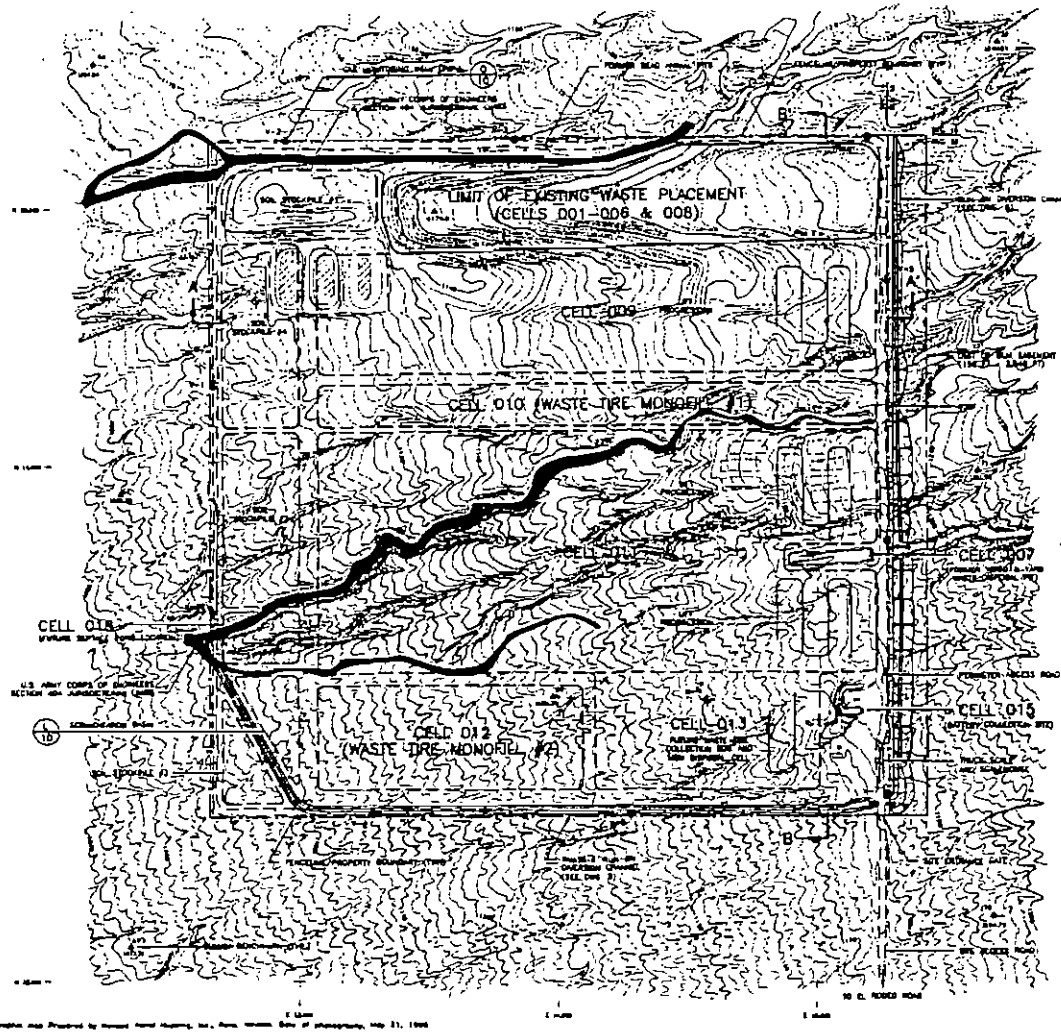
CELL 9A FILL / CELL 9B EXCAVATION PLAN

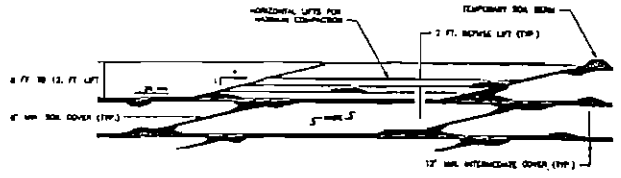
Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

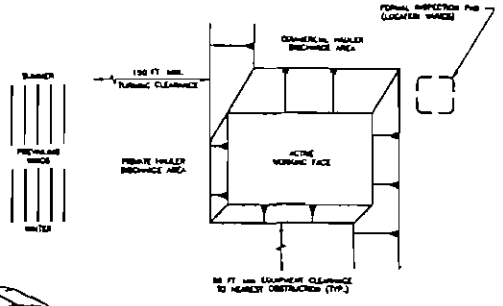
Drawing No. 4 | File Name D-SW-104-B | A

VECTOR ENGINEERING, INC.

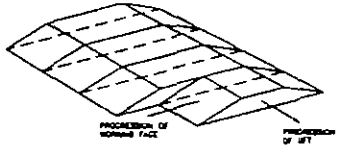




SAMPLE CELL LAYOUT – PROFILE VIEW
N.T.S.



SAMPLE CELL LAYOUT – PLAN VIEW
N.T.S.



SCHEMATIC OF FILL SEQUENCE
N.T.S.

LEGEND

- FENCELINE / PROPERTY BOUNDARY
- EASEMENT BOUNDARY
- ONSITE DIRT ROAD
- EXISTING WASTE FOOTPRINT
- WASTE CELL / STOCKPILE BOUNDARY
- U.S. ARMY CORPS OF ENGINEERS SECTION 404 JURISDICTIONAL LIMITS
- LANDFILL GAS MONITORING WELL
- SURVEY BENCHMARK
- EXPLORATION DRILL HOLE
- CROSS SECTION LOCATION
- CUT SLOPE (3:1)

GRAPHIC SCALE

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

FILL SEQUENCING PLAN

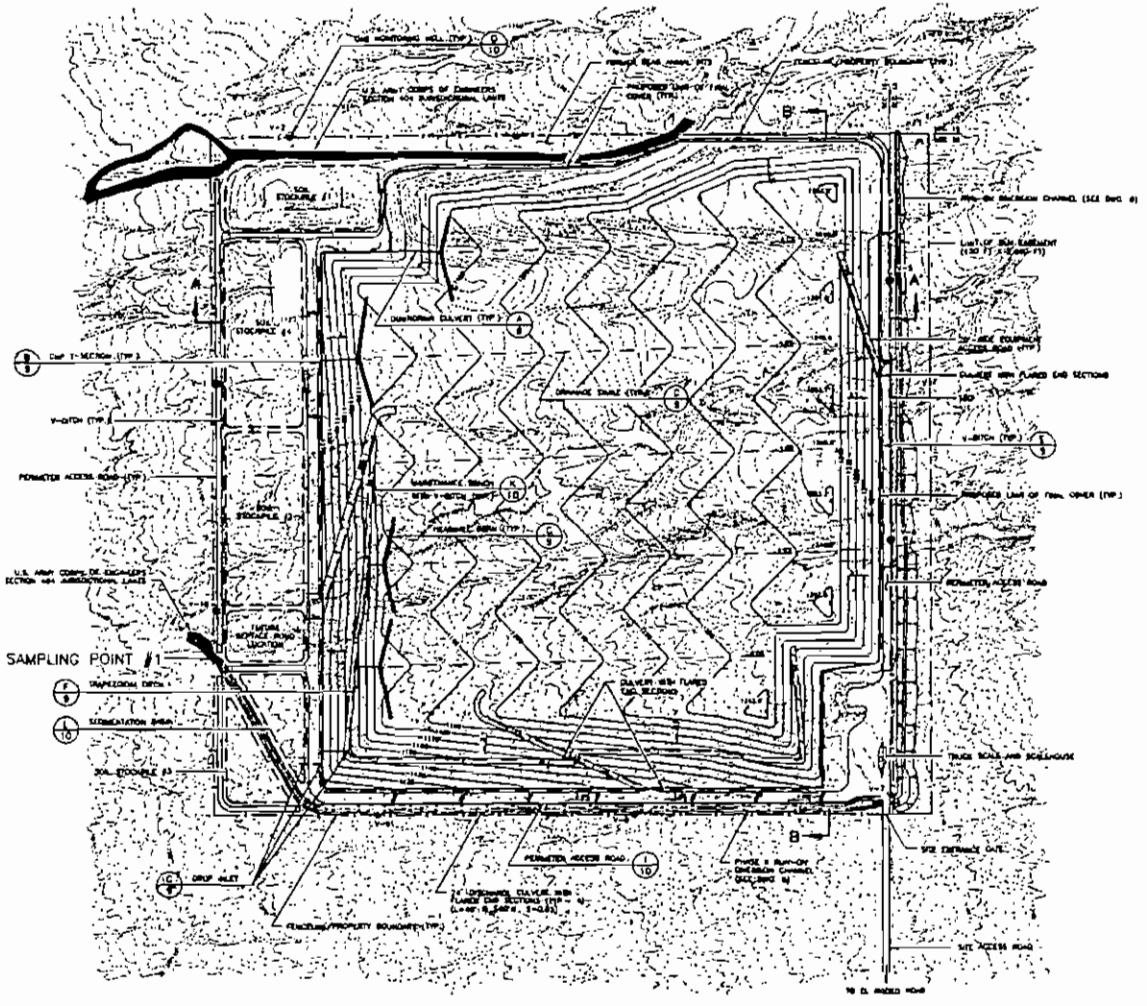
Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 5 | File Name D-SW-105-8 | 8

VECTOR ENGINEERING, INC.

1681 Fairview Dr. Suite B, Carson City, NV 89701 (702) 883-7985



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

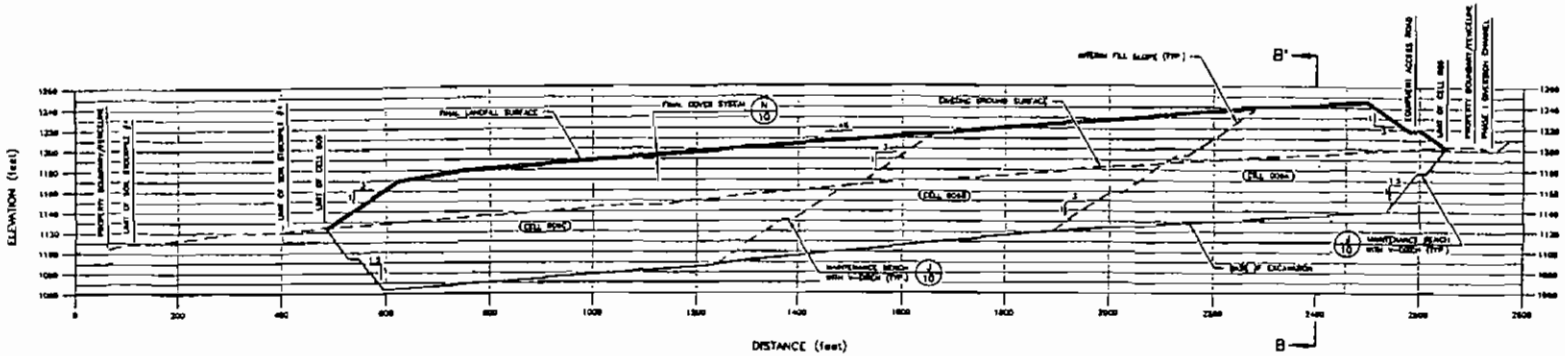
FINAL GRADING PLAN

Drawing Name

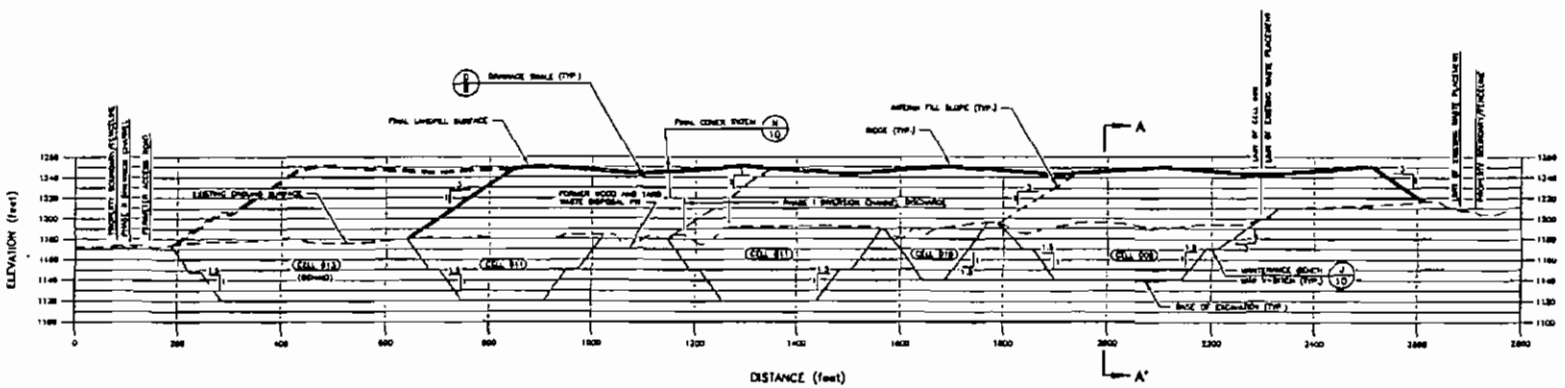
Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 6 | File Name D-19N-20E-B | A

VECTOR ENGINEERING, INC.
1661 Fourteen St. Suite B, Carson City, NV 89701 (702) 888-7868



SECTION A-A'



SECTION B-B'

SCALE
HORIZONTAL 1" = 100'
VERTICAL 1" = 50'

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

SOLID WASTE FACILITIES PLAN

CROSS SECTIONS

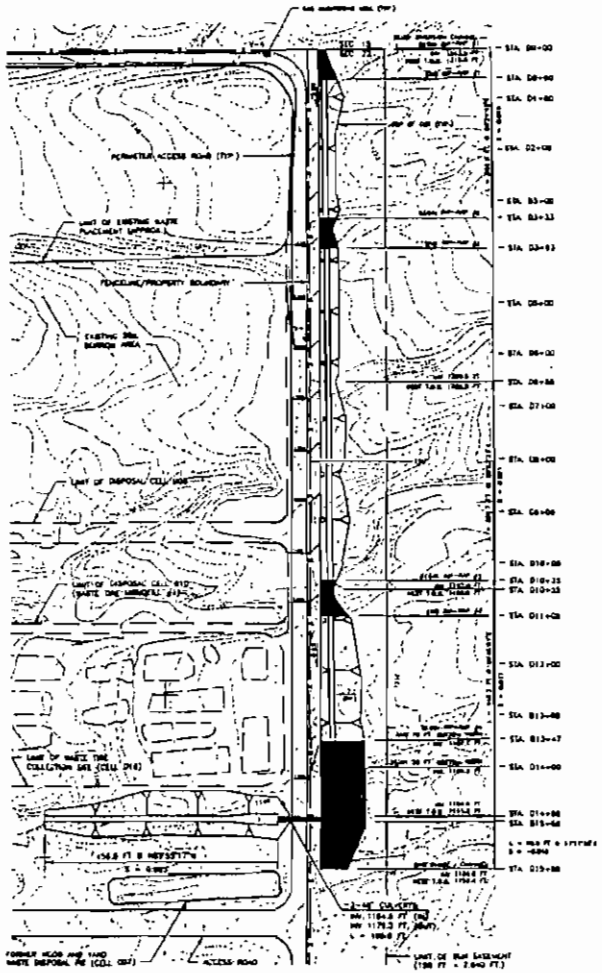
Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 7

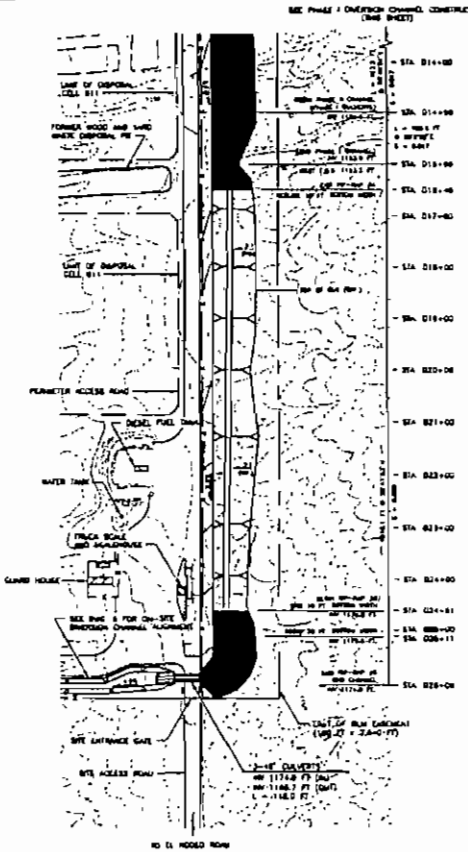
File Name D-SW-107-8

8

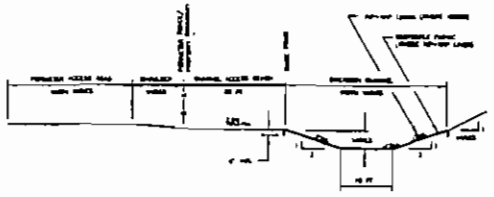
VECTOR ENGINEERING, INC.
1681 Palmyra Dr. Suite E, Carson City, NV 89701 (702) 885-7000



PHASE I DIVERSION CHANNEL CONSTRUCTION



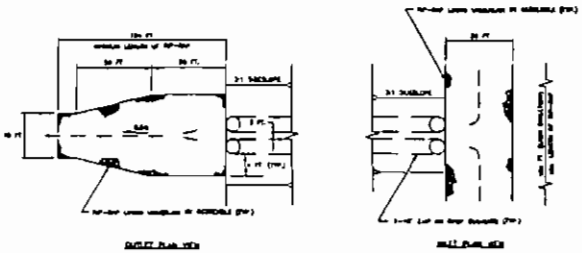
PHASE II DIVERSION CHANNEL CONSTRUCTION

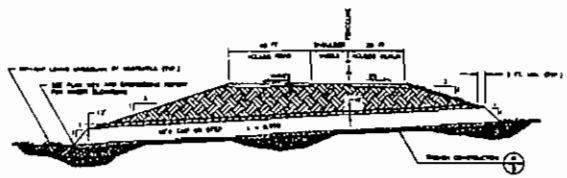


TYPICAL OFF-SITE CHANNEL SECTION

NOTES:

1. RIP-RAP LINING SHALL BE AGGREGATE MATERIAL WITH A MEDIAN DIAMETER (d_{50}) OF 6 INCHES
2. RIP-RAP LINING SHALL BE PLACED AT LOCATIONS SHOWN ON PLANS.
3. GEOTEXTILE FABRIC SHALL BE INSTALLED IN ALL CHANNEL SECTIONS WHERE RIP-RAP LINING IS INSTALLED





PHASE I CULVERT CROSSING

GRAPHIC SCALE

NORTH

LEGEND

- FENCELINE
- EASEMENT BOUNDARY
- ACCESS ROAD
- EXISTING WASTE FOOTPRINT
- SURFACE SLOPE
- CUT SLOPE (2:1)

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

DIVERSION CHANNEL CONSTRUCTION PLAN

Drawing Name

Location NE 1/4, SEC. 21, T. 19 N., R. 21 W.

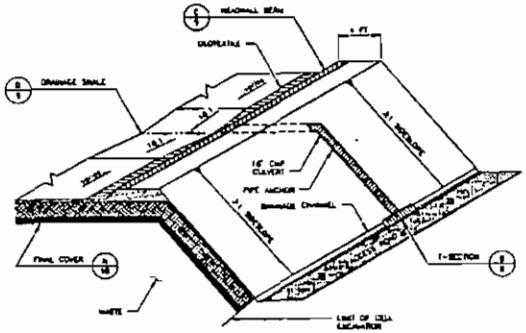
Drawing No. 8

File Name D-SW-108-8

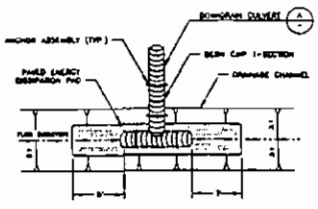
A

VECTOR ENGINEERING, INC.

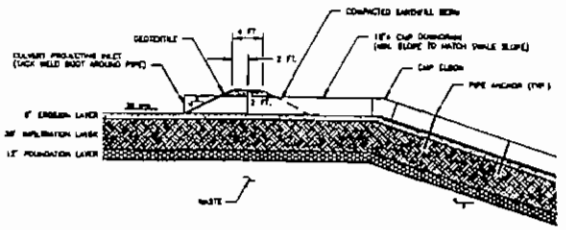
1681 Palomino Dr. Suite B, Corona CA. 92881 (714) 683-7885



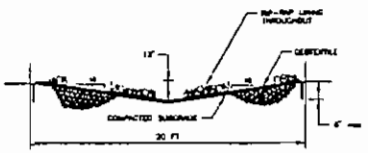
DOWNDRAIN CULVERT – ISOMETRIC VIEW (A) 4,6 11



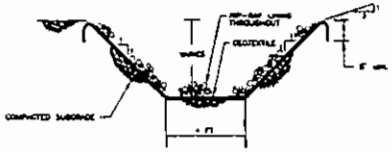
T-SECTION (B) 6



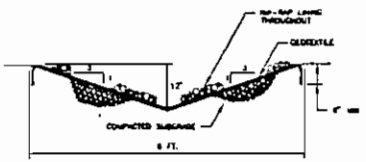
HEADWALL BERM (C) 4,6 11



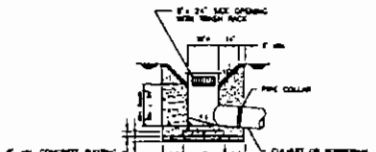
DRAINAGE SWALE (D) 4,6 7,11

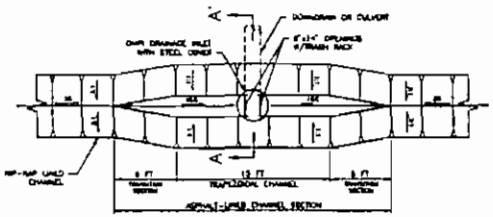


TRAPEZOIDAL DITCH (F) 6

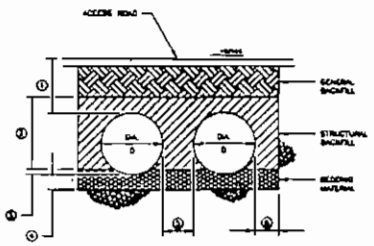


V-DITCH (E) 4,6





DROP INLET (G) 5,10 11



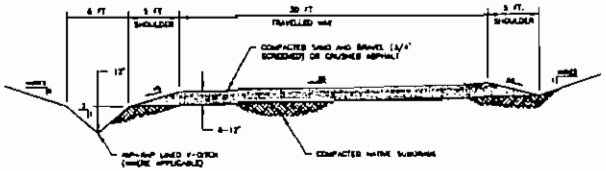
TRENCH CONSTRUCTION (H) 8

NOTE

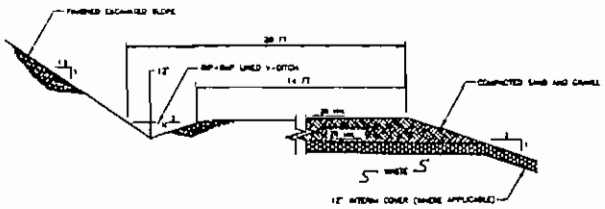
Culverts shall be installed in accordance with the following drawings and standard requirements:

1. Minimum cover requirements: 2.0 feet for pipe diameters less than or equal to 2.5 feet, for pipe diameters greater than or equal to 3.0 feet.
2. Minimum cover shall extend to 1.5 inches or 1/4D, whichever is greater, over the pipe.
3. Bedding under culvert shall meet a minimum of 1/4D.
4. Bedding shall extend above the pipe crown by 1/2 pipe diameter, but not less than one foot, with a minimum total depth of 12 inches, and 1 foot minimum at sides.
5. For multi-pipe installations, the minimum spacing between adjacent pipes shall be one foot for pipe diameters less than or equal to 2.5 feet, and one half of diameter equal to or greater than 3.0 feet.
6. Bedding between culvert and wall surfaces shall meet shall be a minimum of 6 inches thick, 12 inches maximum.

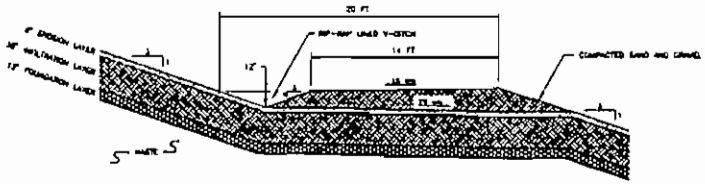
| | | |



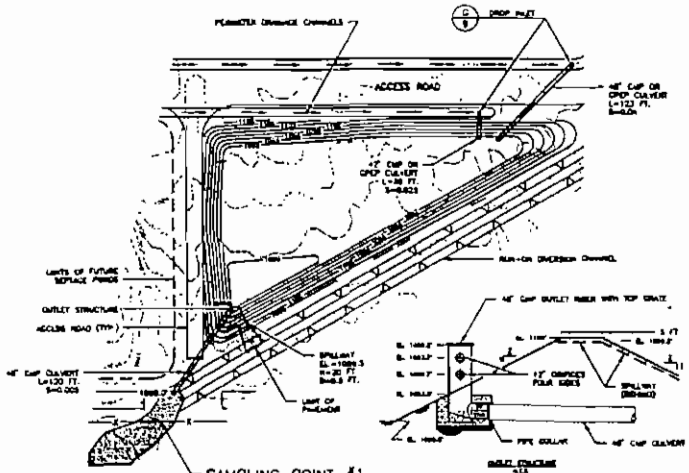
ACCESS ROAD (1/3,4/6)



MAINTENANCE BENCH WITH V-DITCH ON EXCAVATED OR INTERIM FILL SLOPES (J/3,4/7)

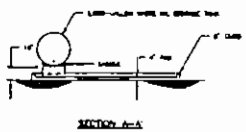


MAINTENANCE BENCH WITH V-DITCH ON FINAL FILL SLOPES (K/6)

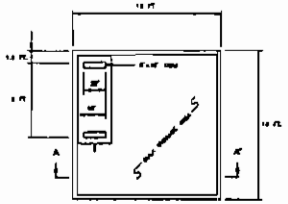


SAMPLING POINT #1

SEDIMENTATION BASIN (L/5,8/11)

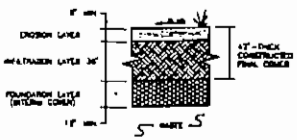


SECTION A-A

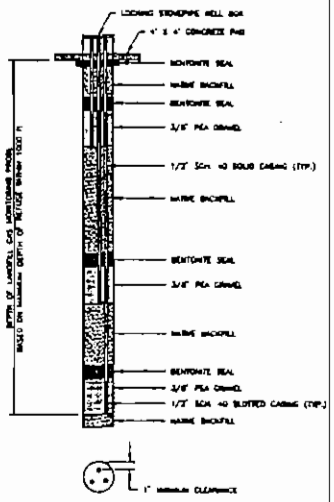


PLAN VIEW

WASTE OIL AND SUSPECT WASTE STORAGE PAD (M/2)



FINAL COVER (N/7)



GAS MONITORING WELL (O/2,5/6)

NOTE:

VECTOR ENGINEERING, INC.

1001 Fairview Dr. Suite B. Corona, CA. 92881 (714) 685-7986

MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

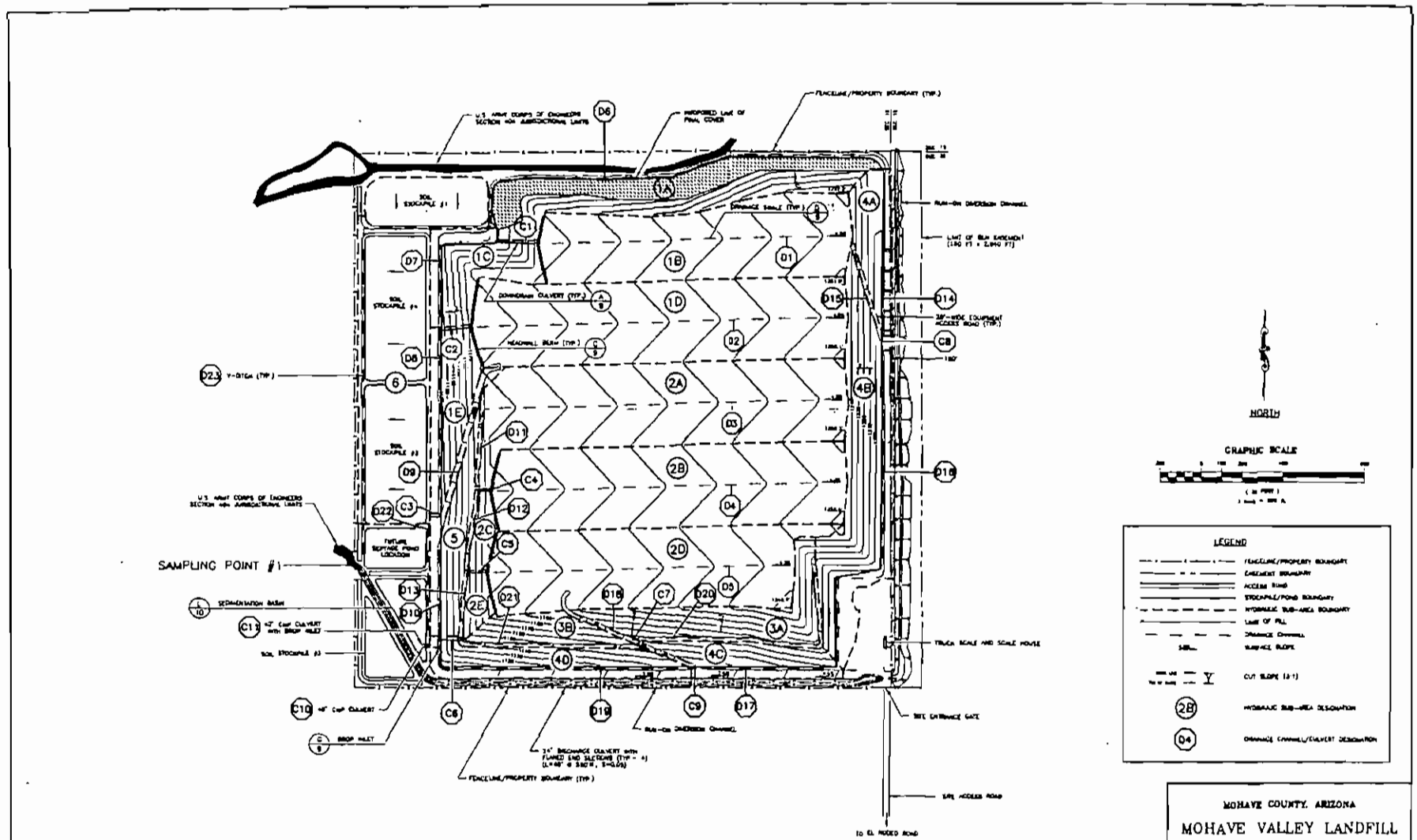
STORM WATER POLLUTION PREVENTION PLAN

DETAILS, SHEET 2 OF 2

Drawing Name

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W.

Drawing No. 10 | File Name D-SW-110-B | A



MOHAVE COUNTY, ARIZONA

MOHAVE VALLEY LANDFILL

STORM WATER POLLUTION PREVENTION PLAN

HYDROLOGIC SUB-AREA LAYOUT

Location: NE 1/4, SEC. 21, T. 19 N., R. 21 W

Drawing No. 11 | File Name: D-SW-111-B | A

VECTOR ENGINEERING, INC.

1681 Paterson Dr Suite B, Carson City, NV 89701 (702) 883-7866

Appendix O

Liner and Leachate Collection and Recovery System Design Calculations

Appendix O-1

Anchor Trench Pullout Calculations

SCS ENGINEERS

SHEET 1 OF 2

CLIENT	PROJECT	JOB NO.
Mohave County, Arizona	Mohave Valley Landfill Master Planing	01216008.10

SUBJECT	BY	DATE
	AAS	12/10/2025
Anchor Trench Pullout Calculations 3:1 Interior Slope	CHECKED MPB	DATE 12/17/2025

OBJECTIVE:

Calculate anchor trench runout length L_{AT} and anchor depth dimensions d_{AT} such that geomembrane pulls out before the geomembrane fails (i.e. tears).

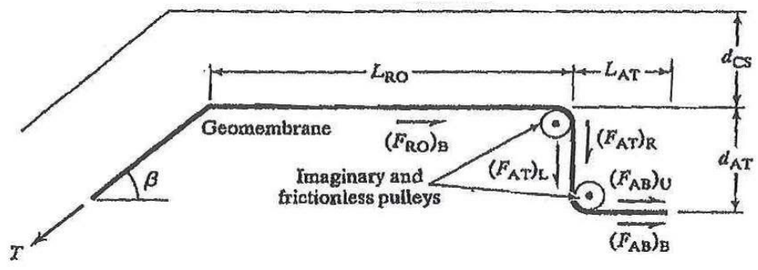
Ultimate geomembrane strength, T_{ult} > Anchor pullout force, $T_{pullout}$

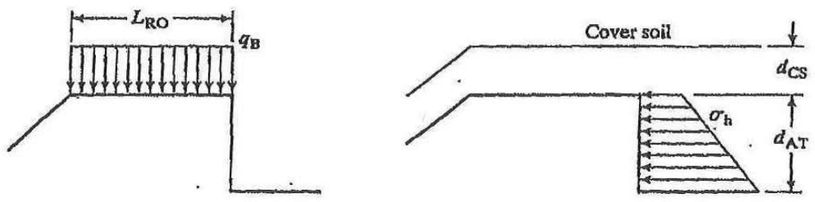
Where

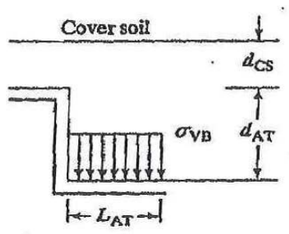
T_{ult}= geomembrane yield strength

For 60 mil HDPE geomembrane T_{ult}= 126 lb/in Average Manufacturer's Value for 60-mil HDPE

$T_{pullout}$= resistance forces of anchor trench







CALCULATIONS:

$$T_{pullout} = \frac{(q_B * L_{RO} * tan\delta) + 2 * [K_0 * (\sigma_v)_{ave} * d_{AT} + \sigma_{vB} * L_{AT}] * tan\delta}{cos\beta - (sin\beta * tan\delta)}$$

See References Note 1.

WHERE:

q_B =	cover soil pressure	240	lb/ft^2	$q_B = \gamma_{CS} * d_{CS}$	
γ_{CS} =	unit weight of cover soil	120	lb/ft^3	(Reference 6)	
d_{CS} =	thickness of cover soil	2	ft		
d_{CS}'=	thickness of cover soil at end of liner in trench	0	ft	$d'_{CS} = d_{CS} - S_{cover} * L_{AT})$	
d_{AT} =	depth of the anchor trench	2	ft		
L_{RO} =	minimum liner runout distance	2	ft		
L_{AT} =	anchor trench length	2	ft		
δ =	interface friction angle between geomembrane and adjacent material	23	°	0.40 rad	Published data range average
ϕ =	friction angle of backfill soil in anchor trench	30	°	0.52 rad	Site Data
K_0 =	coefficient of passive earth pressure	0.50		$K_0 = 1 - \sin(\Phi)$	
$(\sigma_v)_{ave}$ =	average vertical stress in anchor trench	360	lb/ft^2	$(\sigma_v)_{ave} = \gamma_{CS} * (d_{CS}+0.5d_{AT})$	
σ_{vB} =	vertical stress at bottom	360	lb/ft^2	$\sigma_{vB} = \gamma_{CS} * (((d_{CS}+d_{CS}')/2) + d_{AT})$	
s_{cover}=	slope of cover soil over liner in trench (rise/run)	0.00			
β =	sideslope angle	18	°	0.31 rad	
τ =	geomembrane thickness	60	mils	0.06 in	

$T_{pullout}$= 1367 lb/ft = 114 lb/in

Calculate the factor of safety against tear or tensile failure of the geomembrane

FS= $T_{ult}/T_{pullout}$= 1.11 **ACCEPTABLE**

References:

1. Tpullout is an equation that uses a combination of sources to derive the numerator and denominator
   Koerner, *Designing with Geosynthetics* (1994 and later editions), section on "Runout and Anchor Trench Design."
   Briançon, L., Girard, H., Poulain, D., *"Dimensionnement des tranchées d'ancrage en tête de talus des dispositifs d'étanchéité par géomembrane"*, Revue Française de Géotechnique, 2003.
   Villard, P., & Chareyre, B. *"Design methods for geosynthetic anchor trenches on the basis of true scale experiments and discrete element modelling"*, Canadian Geotechnical Journal, 2004.

SCS ENGINEERS

SHEET 2 OF 2

CLIENT	PROJECT	JOB NO.
Mohave County, Arizona	Mohave Valley Landfill Master Planing	01216008.10

SUBJECT	BY	DATE
	AAS	12/10/2025
Anchor Trench Calculations 3:1 Interior Slope	CHECKED MPB	DATE 12/17/2025

OBJECTIVE: Calculate minimum resistance force, T_{min}, for the minimum required interface friction angle, δ_{min} where T_{min}= minimum required anchor trench resistance to prevent geomembrane from sliding.

CALCULATIONS:

$$T_{min} = \frac{(q_B * L_{RO} * tan\delta_{min}) + 2 * [K_0 * (\sigma_v)_{ave} * d_{AT} + \sigma_{vB} * L_{AT}] * tan\delta_{min}}{cos\beta - (sin\beta * tan\delta)}$$

See References Note 1.

WHERE:

q_B =	cover soil pressure	240	lb/ft^2	$q_B = \gamma_{CS} * d_{CS}$	
γ_{CS} =	unit weight of cover soil	120	lb/ft^3	per site data	
d_{CS} =	thickness of cover soil	2	ft	per design	
d_{CS}'=	thickness of cover soil at end of liner in trench	0	ft	per design	
d_{AT} =	depth of the anchor trench	2	ft		
L_{RO} =	minimum liner runout distance	2	ft		
L_{AT} =	anchor trench length	2	ft		
δ_{min} =	Minimum interface friction angle between geomembrane and adjacent material	18	°	0.31 rad	(published low end of range)
ϕ =	friction angle of backfill soil in anchor trench	30	°	0.52 rad	(site data)
K_0 =	coefficient of passive earth pressure	0.50		$K_0 = 1 - \sin(\Phi)$	
$(\sigma_v)_{ave}$ =	average vertical stress in anchor trench	360	lb/ft^2	$(\sigma_v)_{ave} = \gamma_{CS} * (d_{CS}+0.5d_{AT})$	
σ_{vB} =	vertical stress at bottom	360	lb/ft^2	$\sigma_{vB} = \gamma_{CS} * (((d_{CS}+d_{CS}')/2) + d_{AT})$	
S_{cover}=	slope of cover soil over liner in trench (rise/run)	0			
β =	sideslope angle	18	°	0.31 rad	
τ =	geomembrane thickness	60	mils =	0.06 in	

T_{min}= 1046 lb/ft = 87 lb/in

Calculate the factor of safety against failure of the geomembrane

FS= $T_{ult}/T_{pullout}$= 126/40 = 1.45

CONCLUSION:

T_{ult} =	ultimate geomembrane stress per unit width at yield =	126	lb/in
$T_{pullout}$ =	pullout force at the laboratory interfce friction angle =	114	lb/in
T_{min} =	tensile resistance at minimum interface friction angle =	87	lb/in

ACCEPTABLE

T_{ult} > $T_{pullout}$ > T_{min}

- Recommended a horizontal anchor of 2 foot runout length, assuming tensile (ult) at yield of 126 lb/in (lowest published value) and cover soil thickness of 24 inches.
- Assume shear strength efficiency is 100% between the interfaces; in reality it is not due to presence of wrinkles in liner.
- This design will yield a pullout force that is below the ultimate geomembrane force
- Anchor trench dimensions depend on the cover soil thickness, interface friction angle of soil/geomembrane interface, internal friction angle of soil backfill and soil unit weight assumed in the calculations.
- Recommended anchor trench dimensions are within typical values used in landfill design

References:

1. Tpullout is an equation that uses a combination of sources to derive the numerator and denominator

   Koerner, *Designing with Geosynthetics* (1994 and later editions), section on "Runout and Anchor Trench Design."
   Briançon, L., Girard, H., Poulain, D., *"Dimensionnement des tranchées d'ancrage en tête de talus des dispositifs d'étanchéité par géomembrane"*, Revue Française de Géotechnique, 2003.

   Villard, P., & Chareyre, B. *"Design methods for geosynthetic anchor trenches on the basis of true scale experiments and discrete element modelling"*, Canadian Geotechnical Journal, 2004.

Appendix O-2

HELP Model Results

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: MOHAVE VALLEY LANDFILL - S1 **Simulated On:** 12/11/2025 10:01

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)
L - Loam
Material Texture Number 8

Thickness	=	7	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.1257	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 1 - Vertical Percolation Layer (Waste)
Municipal Solid Waste (MSW) (900 pcy)
Material Texture Number 18

Thickness	=	120	inches
Porosity	=	0.671	vol/vol
Field Capacity	=	0.292	vol/vol
Wilting Point	=	0.077	vol/vol
Initial Soil Water Content	=	0.2422	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-03	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	24	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.232	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 4

Type 2 - Lateral Drainage Layer

Drainage Net (0.5 cm)

Material Texture Number 20

Thickness	=	0.3	inches
Porosity	=	0.85	vol/vol
Field Capacity	=	0.01	vol/vol
Wilting Point	=	0.005	vol/vol
Initial Soil Water Content	=	0.01	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E+01	cm/sec
Slope	=	4.5	%
Drainage Length	=	300	ft

Layer 5

Type 4 - Flexible Membrane Liner

HDPE Membrane

Material Texture Number 35

Thickness	=	0.06	inches
Effective Sat. Hyd. Conductivity	=	2.00E-13	cm/sec

FML Pinhole Density	=	5	Holes/Acre
FML Installation Defects	=	1	Holes/Acre
FML Placement Quality	=	2	Excellent

Layer 6

Type 3 - Barrier Soil Liner

Bentonite (High)

Material Texture Number 17

Thickness	=	0.25	inches
Porosity	=	0.75	vol/vol
Field Capacity	=	0.747	vol/vol
Wilting Point	=	0.4	vol/vol
Initial Soil Water Content	=	0.75	vol/vol
Effective Sat. Hyd. Conductivity	=	3.00E-09	cm/sec

Layer 7

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.2091	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	86	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	70	acres
Evaporative Zone Depth	=	36	inches
Initial Water in Evaporative Zone	=	3.366	inches
Upper Limit of Evaporative Storage	=	22.7	inches
Lower Limit of Evaporative Storage	=	3.045	inches
Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	38.206	inches
Total Initial Water	=	38.206	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was User-Specified.

Evapotranspiration and Weather Data

Station Latitude	=	35.01	Degrees
Maximum Leaf Area Index	=	1.2	
Start of Growing Season (Julian Date)	=	15	days
End of Growing Season (Julian Date)	=	347	days
Average Wind Speed	=	9	mph
Average 1st Quarter Relative Humidity	=	45	%
Average 2nd Quarter Relative Humidity	=	18	%
Average 3rd Quarter Relative Humidity	=	31	%
Average 4th Quarter Relative Humidity	=	55	%

Note: Evapotranspiration data was obtained for FORT MOHAVE, Arizona

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
0.922906	1.050135	0.528268	0.261583	0.070908	0.028188
0.303117	0.814696	0.517097	0.533354	0.458135	0.563967

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
46.7	50.8	59.4	70	80.2	92.7
96.8	93.8	87.6	74	60.8	52

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Daily Output for Year 1

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S1

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:02

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.026	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.021	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.65	0.000	0.034	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.16	0.000	0.142	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.16	0.000	0.093	0.1117	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.03	0.000	0.100	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.12	0.000	0.145	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.01	0.000	0.091	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.103	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.068	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.083	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.064	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.051	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.044	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.040	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			1.13	0.018	0.044	0.1238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.113	0.1207	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.067	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.087	0.1164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.100	0.1136	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.114	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.156	0.1061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.172	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.083	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.064	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.054	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.75	0.000	0.055	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.153	0.1109	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.115	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.069	0.1058	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.093	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.083	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.064	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.054	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.048	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.042	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.33	0.000	0.049	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.82	0.000	0.032	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.052	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.035	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.056	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.009	0.1204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.099	0.1177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.000	0.1177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.092	0.1151	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.169	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.165	0.1059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.178	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.084	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.065	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.055	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.048	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.044	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.041	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.49	0.000	0.046	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.036	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.034	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.033	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.031	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.030	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.029	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.028	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.027	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.027	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.025	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.025	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.024	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.024	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.023	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.000	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.022	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.023	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.11	0.000	0.114	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.00	0.000	0.000	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.022	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.022	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.021	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.021	0.0892	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.021	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.021	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.020	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.019	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.019	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.015	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.007	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.008	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.007	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.005	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.005	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.006	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.005	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.003	0.0846	0.0000	0.0003	4.92E-09	0.0000	0.0000	9.36E-04
102	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.01	0.000	0.009	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.25	0.000	0.011	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.011	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.011	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.011	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.012	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.014	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.016	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.017	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.017	0.0884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.017	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.017	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.015	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.014	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.016	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.011	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.008	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.006	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.006	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.005	0.0850	0.0000	0.0000	1.09E-09	0.0000	0.0000	9.31E-04
126	0.00	0.000	0.005	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.005	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.005	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.001	0.0846	0.0000	0.0000	2.27E-09	0.0000	0.0000	9.26E-04
130	0.00	0.000	0.000	0.0846	0.0000	0.0000	5.30E-10	0.0000	0.0000	9.21E-04
131	0.00	0.000	0.000	0.0846	0.0000	0.0000	3.37E-09	0.0000	0.0000	9.17E-04
132	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.01	0.000	0.007	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.02	0.000	0.010	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.002	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.03	0.000	0.010	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.005	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.02	0.000	0.011	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.004	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.16	0.000	0.012	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.002	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.010	0.0891	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.02	0.000	0.019	0.0892	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.01	0.000	0.018	0.0890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.011	0.0887	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.009	0.0884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.009	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.010	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.011	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.012	0.0873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.014	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.007	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.01	0.000	0.012	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.003	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.01	0.000	0.011	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.002	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.005	0.0862	0.0000	0.0000	1.09E-09	0.0000	0.0000	9.12E-04

238	0.00	0.000	0.005	0.0861	0.0000	0.0000	2.27E-09	0.0000	0.0000	9.08E-04
239	0.00	0.000	0.004	0.0860	0.0000	0.0000	7.05E-10	0.0000	0.0000	9.03E-04
240	0.00	0.000	0.005	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.005	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.004	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.004	0.0851	0.0000	0.0000	3.94E-09	0.0000	0.0000	8.98E-04
247	0.00	0.000	0.004	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.004	0.0849	0.0000	0.0000	3.82E-09	0.0000	0.0000	8.94E-04
249	0.00	0.000	0.003	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.38	0.000	0.012	0.0950	0.0000	0.0000	3.92E-09	0.0000	0.0000	8.90E-04
251	0.00	0.000	0.008	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.008	0.0945	0.0000	0.0000	3.35E-09	0.0000	0.0000	8.85E-04
253	0.00	0.000	0.007	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.007	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.007	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.007	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.008	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.008	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.04	0.000	0.017	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.008	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.01	0.000	0.013	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.008	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.006	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	1.35	0.056	0.015	0.1288	0.0000	0.0001	3.97E-09	0.0000	0.0000	8.81E-04
265	0.18	0.000	0.333	0.1245	0.0000	0.0000	9.66E-10	0.0000	0.0000	8.77E-04
266	0.12	0.000	0.356	0.1179	0.0000	0.0000	1.13E-09	0.0000	0.0000	8.72E-04
267	0.02	0.000	0.303	0.1100	0.0000	0.0000	1.67E-09	0.0000	0.0000	8.68E-04
268	0.00	0.000	0.265	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.235	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.200	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.084	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.064	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.019	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.007	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.004	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.004	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.003	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.002	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.002	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.22	0.000	0.013	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.013	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.013	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.013	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.015	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.017	0.0889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.017	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.017	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.016	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.016	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.010	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.009	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.006	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.006	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.005	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.006	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.005	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.003	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.32	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.019	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.010	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.010	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.010	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.010	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.012	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.013	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.013	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.01	0.000	0.020	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.14	0.000	0.022	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.013	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.011	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.010	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.009	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.011	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.012	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.012	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.012	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.01	0.000	0.018	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.21	0.000	0.050	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	*	0.05	0.000	0.029	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.29	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.04	0.000	0.030	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.06	0.000	0.000	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.030	0.1096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.01	0.000	0.071	0.1079	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.19	0.000	0.098	0.1105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.060	0.1088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.041	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.02	0.000	0.055	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.23	0.000	0.061	0.1112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.090	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.109	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.071	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.042	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.044	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.062	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.040	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.070	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.074	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.057	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.037	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.047	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.043	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	9.36	2,378,312.9	100.00
Runoff	0.074	18,907.5	0.79
Evapotranspiration	9.435	2,397,477.2	100.81
Drainage Collected from Layer 4	0.0003	84.0	0.00
Percolation/Leakage through Layer 6	0.000000	0.0099	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.014419	3,663.9	0.15
Change in Water Storage	-0.1646	-41,819.7	-1.76
Soil Water at Start of Year	38.2057	9,708,072.8	408.19
Soil Water at End of Year	38.0411	9,666,253.1	406.43
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 2

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S1

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:02

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.039	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.037	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.034	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.34	0.000	0.049	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.31	0.000	0.000	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.07	0.000	0.072	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.071	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.051	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.050	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.052	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.059	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.049	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.043	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.039	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.036	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.033	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.031	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.022	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.031	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.030	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.000	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.026	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.003	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.002	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.01	0.000	0.011	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.001	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.14	0.000	0.012	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.003	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.013	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.012	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.008	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.007	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.006	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.006	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.006	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.10	0.000	0.014	0.0892	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.31	0.000	0.054	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.055	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.03	0.000	0.042	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.05	0.000	0.116	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.011	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.011	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.011	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.012	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.014	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.014	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.014	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.014	0.0896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.014	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.014	0.0889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.014	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.014	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.013	0.0877	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.013	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.013	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.013	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.013	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.013	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.012	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.000	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		1.14	0.020	0.019	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.13	0.000	0.092	0.1167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.150	0.1131	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.094	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.134	0.1067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.133	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.183	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.200	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.083	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.065	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.055	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.039	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.003	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.003	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.003	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.003	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.002	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.002	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.002	0.0848	0.0000	0.0001	3.88E-09	0.0000	0.0000	8.64E-04
106		0.00	0.000	0.002	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	*	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.12	0.000	0.012	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.003	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.010	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.008	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.008	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.007	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.007	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.006	0.0862	0.0000	0.0000	2.27E-09	0.0000	0.0000	8.60E-04
118		0.00	0.000	0.007	0.0861	0.0000	0.0000	1.12E-09	0.0000	0.0000	8.56E-04
119		0.33	0.000	0.015	0.0948	0.0000	0.0000	2.83E-09	0.0000	0.0000	8.52E-04
120		0.06	0.000	0.022	0.0958	0.0000	0.0000	8.37E-10	0.0000	0.0000	8.48E-04
121		0.00	0.000	0.013	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.013	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.013	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.015	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.016	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.017	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.017	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.016	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	*	0.00	0.000	0.015	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.015	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.015	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.016	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.015	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.016	0.0899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.017	0.0895	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.017	0.0890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.018	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.017	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.017	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.016	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.017	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.017	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.016	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.017	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.017	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.004	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187		0.07	0.000	0.012	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188		0.00	0.000	0.002	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189		0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190		0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191		0.03	0.000	0.014	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192		0.00	0.000	0.003	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193		0.00	0.000	0.005	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194		0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195		0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196		0.00	0.000	0.005	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197		0.00	0.000	0.005	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198		0.00	0.000	0.004	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199		0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200		0.00	0.000	0.005	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201		0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202		0.00	0.000	0.004	0.0851	0.0000	0.0000	2.27E-09	0.0000	0.0000	8.44E-04

203	0.00	0.000	0.005	0.0850	0.0000	0.0000	5.56E-10	0.0000	0.0000	8.40E-04
204	0.00	0.000	0.004	0.0849	0.0000	0.0000	3.89E-09	0.0000	0.0000	8.36E-04
205	0.00	0.000	0.004	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0846	0.0000	0.0000	3.97E-09	0.0000	0.0000	8.32E-04
207	0.03	0.000	0.013	0.0850	0.0000	0.0000	1.88E-10	0.0000	0.0000	8.28E-04
208	0.00	0.000	0.004	0.0849	0.0000	0.0000	3.95E-09	0.0000	0.0000	8.24E-04
209	0.00	0.000	0.004	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.58	0.000	0.018	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.176	0.0952	0.0000	0.0000	1.09E-09	0.0000	0.0000	8.21E-04
231	0.00	0.000	0.012	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.015	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.013	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.013	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.014	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.015	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.015	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.016	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.017	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.017	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.015	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.016	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.014	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.017	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.018	0.0889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.020	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.017	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.015	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.015	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.024	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.028	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.023	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.010	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.24	0.000	0.013	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.069	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.014	0.0884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.019	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.018	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.016	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.013	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.014	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.009	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.007	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.08	0.000	0.015	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.0873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.006	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.004	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.005	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.004	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.004	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.003	0.0866	0.0000	0.0000	2.27E-09	0.0000	0.0000	8.17E-04
281		0.00	0.000	0.004	0.0865	0.0000	0.0000	1.08E-09	0.0000	0.0000	8.13E-04
282		0.00	0.000	0.003	0.0864	0.0000	0.0000	3.95E-09	0.0000	0.0000	8.09E-04
283		0.00	0.000	0.003	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.01	0.000	0.010	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.001	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.003	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.003	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.003	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.003	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.18	0.000	0.014	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.050	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.064	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.036	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.038	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.024	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.007	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.001	0.0846	0.0000	0.0000	5.67E-10	0.0000	0.0000	8.06E-04
299		0.00	0.000	0.001	0.0846	0.0000	0.0000	2.75E-09	0.0000	0.0000	8.02E-04
300		0.00	0.000	0.000	0.0846	0.0000	0.0000	1.09E-09	0.0000	0.0000	7.99E-04
301		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.10	0.000	0.014	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.002	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.006	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.005	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.005	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.005	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.004	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.004	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.004	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.004	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.004	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.004	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.004	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.004	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.004	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 2			
	inches	cubic feet	percent
Precipitation	4.45	1,131,979.7	100.00
Runoff	0.020	4,979.7	0.44
Evapotranspiration	4.606	1,170,303.9	103.39
Drainage Collected from Layer 4	0.0002	52.0	0.00
Percolation/Leakage through Layer 6	0.000000	0.0098	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.014949	3,798.6	0.34
Change in Water Storage	-0.1856	-47,154.5	-4.17
Soil Water at Start of Year	38.0411	9,666,253.1	853.92
Soil Water at End of Year	37.8556	9,619,098.6	849.76
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 3

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S1

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:02

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.03	0.000	0.011	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.21	0.000	0.012	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.64	0.000	0.052	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.46	0.000	0.048	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.02	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.062	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.109	0.1139	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.089	0.1114	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.123	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.076	0.1059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.115	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.084	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.105	0.0974	0.0000	0.0000	2.26E-09	0.0000	0.0000	7.95E-04
30		0.00	0.000	0.079	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.109	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.066	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.123	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.058	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.006	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.003	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.002	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.002	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.37	0.000	0.015	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.071	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.089	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.093	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.067	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.026	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.006	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.005	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.57	0.000	0.032	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.20	0.000	0.065	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.071	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.110	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.145	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.161	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.139	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.034	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.004	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.02	0.000	0.021	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.03	0.000	0.020	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.009	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.006	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.003	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.002	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.01	0.000	0.013	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.002	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.000	0.0847	0.0000	0.0000	3.40E-09	0.0000	0.0000	7.91E-04
83	0.23	0.000	0.015	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.016	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.016	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.016	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.019	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.019	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.019	0.0877	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.019	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.019	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.012	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.009	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.007	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.007	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.006	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.006	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.006	0.0852	0.0000	0.0000	3.65E-09	0.0000	0.0000	7.88E-04
99		0.00	0.000	0.007	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.14	0.000	0.016	0.0885	0.0000	0.0000	3.58E-09	0.0000	0.0000	7.84E-04
101		0.07	0.000	0.014	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.012	0.0898	0.0000	0.0000	3.72E-09	0.0000	0.0000	7.81E-04
103		0.00	0.000	0.012	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.012	0.0891	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.013	0.0887	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.015	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.016	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.017	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.016	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.016	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.007	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.008	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.006	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.005	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.005	0.0854	0.0000	0.0000	1.37E-09	0.0000	0.0000	7.78E-04
118		0.00	0.000	0.005	0.0853	0.0000	0.0000	3.82E-09	0.0000	0.0000	7.74E-04
119		0.00	0.000	0.005	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.0850	0.0000	0.0000	3.81E-09	0.0000	0.0000	7.71E-04
121		0.00	0.000	0.005	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.05	0.000	0.013	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.13	0.000	0.013	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.002	0.0887	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.010	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.010	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.010	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	*	0.00	0.000	0.011	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.012	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.014	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.007	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0861	0.0000	0.0000	5.67E-10	0.0000	0.0000	7.68E-04
139	0.00	0.000	0.005	0.0860	0.0000	0.0000	2.21E-09	0.0000	0.0000	7.64E-04
140	0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.005	0.0857	0.0000	0.0000	3.21E-10	0.0000	0.0000	7.61E-04
142	0.00	0.000	0.005	0.0855	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.58E-04
143	0.00	0.000	0.005	0.0854	0.0000	0.0000	4.69E-10	0.0000	0.0000	7.55E-04
144	0.00	0.000	0.005	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.005	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.005	0.0847	0.0000	0.0000	3.37E-09	0.0000	0.0000	7.51E-04
149	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0846	0.0000	0.0000	3.89E-09	0.0000	0.0000	7.48E-04
151	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0846	0.0000	0.0000	3.96E-09	0.0000	0.0000	7.45E-04
153	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.013	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.01	0.000	0.010	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.01	0.000	0.010	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.002	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.005	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.24	0.000	0.016	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.135	0.0890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.015	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.014	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.014	0.0878	0.0000	0.0000	3.91E-09	0.0000	0.0000	7.42E-04
198	0.00	0.000	0.016	0.0873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.019	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.016	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.008	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.006	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0855	0.0000	0.0000	3.92E-09	0.0000	0.0000	7.39E-04
207	0.00	0.000	0.004	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.01	0.000	0.012	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.002	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.36	0.000	0.013	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.11	0.000	0.069	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.083	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.01	0.000	0.171	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.10	0.000	0.113	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.042	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.040	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.018	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.016	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.002	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.002	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.05	0.000	0.018	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.006	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.011	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.010	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.008	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.002	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.14	0.000	0.015	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.014	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.010	0.0873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.010	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.007	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.007	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.007	0.0864	0.0000	0.0000	2.27E-09	0.0000	0.0000	7.36E-04
324	*	0.00	0.000	0.006	0.0862	0.0000	0.0000	1.42E-09	0.0000	0.0000	7.33E-04
325		0.00	0.000	0.006	0.0861	0.0000	0.0000	2.27E-09	0.0000	0.0000	7.30E-04
326		0.00	0.000	0.006	0.0859	0.0000	0.0000	1.04E-09	0.0000	0.0000	7.27E-04
327		0.00	0.000	0.006	0.0858	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.24E-04
328		0.00	0.000	0.006	0.0856	0.0000	0.0000	3.88E-11	0.0000	0.0000	7.21E-04
329		0.00	0.000	0.006	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.006	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.006	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.005	0.0850	0.0000	0.0000	3.89E-09	0.0000	0.0000	7.18E-04
333		0.00	0.000	0.005	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.005	0.0847	0.0000	0.0000	3.85E-09	0.0000	0.0000	7.15E-04
335	*	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0846	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.12E-04
338		0.00	0.000	0.000	0.0846	0.0000	0.0000	5.21E-10	0.0000	0.0000	7.09E-04
339		0.00	0.000	0.000	0.0846	0.0000	0.0000	3.84E-09	0.0000	0.0000	7.06E-04
340		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.01	0.000	0.006	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 3			
	inches	cubic feet	percent
Precipitation	4.32	1,096,884.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.317	1,096,902.4	100.00
Drainage Collected from Layer 4	0.0001	23.2	0.00
Percolation/Leakage through Layer 6	0.000000	0.0201	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.021723	5,519.8	0.50
Change in Water Storage	-0.0219	-5,561.2	-0.51
Soil Water at Start of Year	37.8556	9,619,098.6	876.95
Soil Water at End of Year	37.8337	9,613,537.4	876.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 4

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S1

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:02

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.01	0.000	0.006	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.09	0.000	0.013	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.002	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.004	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.004	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.004	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.014	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.002	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.005	0.0870	0.0000	0.0000	3.88E-09	0.0000	0.0000	7.04E-04
36		0.00	0.000	0.004	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.004	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.004	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.004	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.006	0.0865	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.01E-04
41		0.00	0.000	0.003	0.0864	0.0000	0.0000	2.46E-10	0.0000	0.0000	6.98E-04
42		0.02	0.000	0.012	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.002	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.003	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.003	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.003	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.003	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.34	0.000	0.014	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.076	0.0930	0.0000	0.0000	3.66E-09	0.0000	0.0000	6.95E-04
50		0.00	0.000	0.101	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.134	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.046	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.014	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.08	0.000	0.073	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.02	0.000	0.021	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.008	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.003	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.36	0.000	0.017	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.101	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.141	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.031	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.027	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.017	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.010	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.009	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.005	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.30	0.000	0.016	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.053	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.065	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.094	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.035	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.027	0.0850	0.0000	0.0000	3.38E-09	0.0000	0.0000	6.93E-04
78		0.00	0.000	0.013	0.0847	0.0000	0.0000	2.81E-09	0.0000	0.0000	6.90E-04
79		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.03	0.000	0.015	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.004	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.008	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.02	0.000	0.013	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.003	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.005	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.03	0.000	0.013	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.003	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.006	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.12	0.000	0.014	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.10	0.000	0.014	0.0899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.04	0.000	0.022	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.012	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.10	0.000	0.022	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.06	0.000	0.131	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.03	0.000	0.026	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.01	0.000	0.020	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.03	0.000	0.026	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.016	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.017	0.0889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.016	0.0884	0.0000	0.0000	2.57E-09	0.0000	0.0000	6.87E-04
128		0.00	0.000	0.017	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.017	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.015	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.011	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.006	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.006	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0858	0.0000	0.0000	3.77E-09	0.0000	0.0000	6.84E-04
139	0.00	0.000	0.005	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.005	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.005	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.005	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.005	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.0849	0.0000	0.0000	5.02E-10	0.0000	0.0000	6.82E-04
146	0.00	0.000	0.004	0.0847	0.0000	0.0000	3.87E-09	0.0000	0.0000	6.79E-04
147	0.00	0.000	0.004	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.001	0.0846	0.0000	0.0000	3.88E-09	0.0000	0.0000	6.77E-04
149	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0846	0.0000	0.0000	3.81E-09	0.0000	0.0000	6.74E-04
151	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.08	0.000	0.013	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.002	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.004	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.004	0.0862	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.004	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.004	0.0858	0.0000	0.0000	3.68E-09	0.0000	0.0000	6.71E-04
193	0.00	0.000	0.004	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.03	0.000	0.014	0.0860	0.0000	0.0000	1.70E-09	0.0000	0.0000	6.69E-04
195	0.53	0.000	0.020	0.1003	0.0000	0.0000	8.32E-10	0.0000	0.0000	6.66E-04
196	0.01	0.000	0.240	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.274	0.0863	0.0000	0.0000	2.10E-09	0.0000	0.0000	6.64E-04
198	0.00	0.000	0.044	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.010	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.007	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.01	0.000	0.006	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.15	0.000	0.015	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.08	0.000	0.015	0.0899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.01	0.000	0.023	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.34	0.000	0.026	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.167	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.218	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.58	0.000	0.201	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.272	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.082	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.16	0.000	0.077	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.08	0.000	0.070	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.03	0.000	0.133	0.0884	0.0000	0.0002	2.84E-09	0.0000	0.0000	6.61E-04
234		0.12	0.000	0.052	0.0902	0.0000	0.0000	2.53E-09	0.0000	0.0000	6.59E-04
235		0.21	0.000	0.042	0.0949	0.0000	0.0001	3.81E-09	0.0000	0.0000	6.56E-04
236		0.02	0.000	0.180	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.46	0.000	0.054	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.12	0.000	0.338	0.0954	0.0000	0.0000	2.83E-09	0.0000	0.0000	6.54E-04
239		0.01	0.000	0.255	0.0886	0.0000	0.0000	5.09E-09	0.0000	0.0000	6.51E-04
240		0.00	0.000	0.096	0.0859	0.0000	0.0000	4.50E-10	0.0000	0.0000	6.49E-04
241		0.00	0.000	0.028	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.010	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.008	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.003	0.0846	0.0000	0.0001	4.27E-09	0.0000	0.0000	6.47E-04
245		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.06	0.000	0.018	0.0857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.006	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.012	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.011	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.009	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.0846	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.44E-04
254		0.00	0.000	0.000	0.0846	0.0000	0.0000	3.52E-11	0.0000	0.0000	6.42E-04
255		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.56	0.000	0.022	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	*	0.08	0.000	0.068	0.0999	0.0000	0.0000	1.09E-09	0.0000	0.0000	6.40E-04
289		0.07	0.000	0.075	0.0998	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.37E-04
290		0.00	0.000	0.092	0.0973	0.0000	0.0000	3.28E-09	0.0000	0.0000	6.35E-04
291		0.00	0.000	0.095	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.105	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.076	0.0896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.055	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.059	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.052	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.008	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.12	0.000	0.016	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.005	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.20	0.000	0.022	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.105	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.144	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.121	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.043	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.012	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		1.26	0.037	0.049	0.1174	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.080	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.106	0.1122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.082	0.1100	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.070	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.087	0.1056	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.085	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.045	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.077	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.127	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.081	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.134	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.102	0.0875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.056	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.018	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.01	0.000	0.016	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.003	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.002	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.002	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.002	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.001	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.01	0.000	0.007	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.27	0.000	0.017	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.01	0.000	0.026	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.017	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.017	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.020	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.021	0.0896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.021	0.0890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.020	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.020	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.019	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.019	0.0868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.16	0.000	0.029	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.01	0.000	0.020	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.41	0.000	0.025	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.01	0.000	0.045	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.046	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.091	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.098	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.077	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.087	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 4			
	inches	cubic feet	percent
Precipitation	8.24	2,095,022.3	100.00
Runoff	0.037	9,390.4	0.45
Evapotranspiration	8.061	2,048,418.1	97.78
Drainage Collected from Layer 4	0.0006	145.4	0.01
Percolation/Leakage through Layer 6	0.000000	0.0196	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.018708	4,753.7	0.23
Change in Water Storage	0.1272	32,314.7	1.54
Soil Water at Start of Year	37.8337	9,613,537.4	458.88
Soil Water at End of Year	37.9609	9,645,852.2	460.42
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 5

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S1

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:02

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.13	0.000	0.086	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.061	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.024	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.016	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.017	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.013	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.013	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.011	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.011	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.004	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.04	0.000	0.041	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.35	0.000	0.047	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.02	0.000	0.077	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.07	0.000	0.068	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.70	0.000	0.025	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.102	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.092	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28			0.00	0.000	0.065	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29			0.00	0.000	0.053	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30			0.00	0.000	0.070	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31			0.18	0.000	0.068	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32			0.16	0.000	0.071	0.1054	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.21	0.000	0.105	0.1084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*		0.00	0.000	0.063	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.000	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.03	0.000	0.026	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*		0.02	0.000	0.017	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38			0.00	0.000	0.077	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39			0.00	0.000	0.075	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40			0.00	0.000	0.091	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*		0.00	0.000	0.000	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42			0.00	0.000	0.082	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43			0.00	0.000	0.118	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44			0.00	0.000	0.128	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45			0.00	0.000	0.089	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46			0.00	0.000	0.083	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47			0.00	0.000	0.016	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*		0.13	0.000	0.051	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.35	0.000	0.029	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*		0.58	0.000	0.038	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51			0.00	0.000	0.077	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*		0.00	0.000	0.054	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.12	0.000	0.091	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*		0.00	0.000	0.070	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*		0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*		0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*		0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*		0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	*	0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	*	0.00	0.000	0.000	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		*	0.16	0.009	0.012	0.1108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62			0.00	0.000	0.159	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.01	0.000	0.141	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.170	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.169	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.096	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.129	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.050	0.0856	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.25	0.000	0.026	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.27	0.000	0.050	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.069	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.105	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.155	0.0890	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.088	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.041	0.0854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.003	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.002	0.0853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.002	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	*	0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.001	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.16	0.000	0.015	0.0887	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.003	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.011	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.011	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.013	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.015	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.012	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.006	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.006	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.005	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.005	0.0860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0859	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.33E-04
123		0.00	0.000	0.005	0.0857	0.0000	0.0000	5.49E-10	0.0000	0.0000	6.30E-04
124		0.00	0.000	0.005	0.0856	0.0000	0.0000	3.90E-09	0.0000	0.0000	6.28E-04
125		0.00	0.000	0.005	0.0855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.004	0.0853	0.0000	0.0000	3.94E-09	0.0000	0.0000	6.26E-04
127	*	0.00	0.000	0.004	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	*	0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	*	0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.000	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.004	0.0851	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.24E-04
132	*	0.00	0.000	0.004	0.0850	0.0000	0.0000	5.50E-10	0.0000	0.0000	6.21E-04

133	0.00	0.000	0.004	0.0848	0.0000	0.0000	3.41E-09	0.0000	0.0000	6.19E-04
134	0.00	0.000	0.006	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.004	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.02	0.000	0.011	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.01	0.000	0.010	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.01	0.000	0.005	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.01	0.000	0.009	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.16	0.000	0.014	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.002	0.0886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.007	0.0884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.008	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.007	0.0880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.009	0.0877	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.010	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.009	0.0872	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.009	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.007	0.0867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.05	0.000	0.016	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.09	0.000	0.014	0.0898	0.0000	0.0000	3.48E-09	0.0000	0.0000	6.17E-04
223	0.12	0.000	0.019	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.98	0.007	0.185	0.1146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.192	0.1094	0.0000	0.0000	2.25E-09	0.0000	0.0000	6.15E-04
226	0.00	0.000	0.250	0.1024	0.0000	0.0000	2.20E-09	0.0000	0.0000	6.13E-04
227	0.00	0.000	0.217	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.210	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.167	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.032	0.0850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.83	0.000	0.060	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.187	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.267	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.252	0.0869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.058	0.0852	0.0001	0.0005	3.97E-09	0.0000	0.0000	6.10E-04
236	0.00	0.000	0.012	0.0849	0.0000	0.0000	2.45E-09	0.0000	0.0000	6.08E-04
237	0.00	0.000	0.008	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.003	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.01	0.000	0.007	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.20	0.000	0.016	0.0896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.003	0.0895	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.08	0.000	0.026	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.24	0.000	0.029	0.0969	0.0000	0.0000	1.04E-09	0.0000	0.0000	6.06E-04
270	0.16	0.000	0.158	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.13	0.000	0.150	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.191	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.175	0.0862	0.0000	0.0000	2.90E-09	0.0000	0.0000	6.04E-04
274		0.00	0.000	0.045	0.0849	0.0000	0.0000	2.69E-09	0.0000	0.0000	6.02E-04
275		0.00	0.000	0.009	0.0847	0.0000	0.0000	2.09E-10	0.0000	0.0000	6.00E-04
276		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.001	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.03	0.000	0.016	0.0851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.07	0.000	0.017	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.01	0.000	0.011	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.004	0.0865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.007	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.36	0.000	0.020	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.18	0.000	0.099	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.01	0.000	0.055	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.02	0.000	0.058	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.085	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.089	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	*	0.00	0.000	0.047	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.064	0.0879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.055	0.0864	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.044	0.0852	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.015	0.0848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.003	0.0847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.002	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.23	0.000	0.016	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.03	0.000	0.026	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.014	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.013	0.0897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.017	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.018	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.018	0.0883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.017	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.14	0.000	0.030	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.017	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.016	0.0898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.012	0.0895	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.013	0.0891	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.015	0.0887	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.016	0.0882	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.015	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.015	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.015	0.0870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.015	0.0866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.012	0.0863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.007	0.0861	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.005	0.0859	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.005	0.0858	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.15	0.000	0.017	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.003	0.0894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.06	0.000	0.052	0.0896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.010	0.0893	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.009	0.0891	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.010	0.0888	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.011	0.0885	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.012	0.0881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.013	0.0878	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.012	0.0874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.012	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.000	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0871	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.44	0.000	0.036	0.0876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 5			
	inches	cubic feet	percent
Precipitation	8.77	2,227,405.9	100.00
Runoff	0.016	3,981.3	0.18
Evapotranspiration	8.404	2,135,447.5	95.87
Drainage Collected from Layer 4	0.0006	139.9	0.01
Percolation/Leakage through Layer 6	0.000000	0.0101	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.009856	2,504.4	0.11
Change in Water Storage	0.3358	85,332.8	3.83
Soil Water at Start of Year	37.9609	9,645,852.2	433.05
Soil Water at End of Year	37.9154	9,634,306.6	432.53
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.3813	96,878.4	4.35
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: MOHAVE VALLEY LANDFILL - S1
Simulated on: 12/11/2025 10:03

	Average Annual Totals for Years 1 - 5*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	7.03	[2.44]	1,785,921.0	100.00
Runoff	0.029	[0.028]	7,451.8	0.42
Evapotranspiration	6.965	[2.343]	1,769,709.8	99.09
Subprofile1				
Lateral drainage collected from Layer 4	0.0003	[0.0002]	88.9	0.00
Percolation/leakage through Layer 6	0.000000	[0]	0.0139	0.00
Average Head on Top of Layer 5	0.0000	[0]	---	---
Subprofile2				
Percolation/leakage through Layer 7	0.015931	[0.004511]	4,048.1	0.23
Water storage				
Change in water storage	0.0182	[0.2175]	4,622.4	0.26

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: MOHAVE VALLEY LANDFILL - S1
Simulated on: 12/11/2025 10:03

	Peak Values for Years 1 - 5*		
	(inches)		(cubic feet)
Precipitation	1.35		342,088.4
Runoff	0.056		14,307.7
Subprofile1			
Drainage collected from Layer 4	0.0005		136.5
Percolation/leakage through Layer 6	0.000000		0.0013
Average head on Layer 5	0.0001		---
Maximum head on Layer 5	0.0001		---
Location of maximum head in Layer 4	0.00	(feet from drain)	
Subprofile2			
Percolation/leakage through Layer 7	0.000936		237.8
Other Parameters			
Snow water	1.0584		268,929.7
Maximum vegetation soil water	0.1288	(vol/vol)	
Minimum vegetation soil water	0.0846	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: MOHAVE VALLEY LANDFILL - S1
Simulated on: 12/11/2025 10:04
Simulation period: 5 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	0.8845	0.1264
2	28.8427	0.2404
3	5.5680	0.2320
4	0.0030	0.0100
5	0.0000	0.0000
6	0.1875	0.7500
7	2.4297	0.2025
Snow water	0.3813	---

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: MOHAVE VALLEY LANDFILL - S2 **Simulated On:** 12/11/2025 10:19

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)
L - Loam
Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.1437	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 1 - Vertical Percolation Layer (Waste)
Municipal Solid Waste (MSW) (900 pcy)
Material Texture Number 18

Thickness	=	3504	inches
Porosity	=	0.671	vol/vol
Field Capacity	=	0.292	vol/vol
Wilting Point	=	0.077	vol/vol
Initial Soil Water Content	=	0.2905	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-03	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	24	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.232	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 4

Type 2 - Lateral Drainage Layer

Drainage Net (0.5 cm)

Material Texture Number 20

Thickness	=	0.3	inches
Porosity	=	0.85	vol/vol
Field Capacity	=	0.01	vol/vol
Wilting Point	=	0.005	vol/vol
Initial Soil Water Content	=	0.01	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E+01	cm/sec
Slope	=	4.5	%
Drainage Length	=	300	ft

Layer 5

Type 4 - Flexible Membrane Liner

HDPE Membrane

Material Texture Number 35

Thickness	=	0.06	inches
Effective Sat. Hyd. Conductivity	=	2.00E-13	cm/sec

FML Pinhole Density	=	5	Holes/Acre
FML Installation Defects	=	1	Holes/Acre
FML Placement Quality	=	3	Good

Layer 6

Type 3 - Barrier Soil Liner

Bentonite (High)

Material Texture Number 17

Thickness	=	0.25	inches
Porosity	=	0.75	vol/vol
Field Capacity	=	0.747	vol/vol
Wilting Point	=	0.4	vol/vol
Initial Soil Water Content	=	0.75	vol/vol
Effective Sat. Hyd. Conductivity	=	3.00E-09	cm/sec

Layer 7

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.2118	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	86	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	70	acres
Evaporative Zone Depth	=	36	inches
Initial Water in Evaporative Zone	=	3.574	inches
Upper Limit of Evaporative Storage	=	21.66	inches
Lower Limit of Evaporative Storage	=	3.24	inches
Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	1028.035	inches
Total Initial Water	=	1028.035	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was User-Specified.

Evapotranspiration and Weather Data

Station Latitude	=	35.01	Degrees
Maximum Leaf Area Index	=	1.2	
Start of Growing Season (Julian Date)	=	15	days
End of Growing Season (Julian Date)	=	347	days
Average Wind Speed	=	9	mph
Average 1st Quarter Relative Humidity	=	45	%
Average 2nd Quarter Relative Humidity	=	18	%
Average 3rd Quarter Relative Humidity	=	31	%
Average 4th Quarter Relative Humidity	=	55	%

Note: Evapotranspiration data was obtained for FORT MOHAVE, Arizona

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
0.922906	1.050135	0.528268	0.261583	0.070908	0.028188
0.303117	0.814696	0.517097	0.533354	0.458135	0.563967

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
46.7	50.8	59.4	70	80.2	92.7
96.8	93.8	87.6	74	60.8	52

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Daily Output for Year 1

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.026	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.025	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.65	0.000	0.031	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.16	0.000	0.142	0.1157	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.16	0.000	0.094	0.1175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.03	0.000	0.100	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.12	0.000	0.146	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.01	0.000	0.091	0.1125	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.104	0.1096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.068	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.063	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.053	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.047	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.040	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.036	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			1.13	0.018	0.040	0.1308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.112	0.1277	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.068	0.1258	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.1258	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.088	0.1234	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.101	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.127	0.1170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.171	0.1123	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.174	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.081	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.062	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.052	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.75	0.000	0.054	0.1215	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.155	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.116	0.1140	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.070	0.1120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.094	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.082	0.1071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.063	0.1054	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.053	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.047	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.042	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.33	0.000	0.049	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.82	0.000	0.032	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.052	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.035	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.056	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.009	0.1268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.100	0.1240	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.000	0.1240	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.093	0.1214	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.159	0.1170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.158	0.1126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.186	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.194	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.082	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.064	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.054	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.048	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.043	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.49	0.000	0.047	0.1063	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.037	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.035	0.1043	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.034	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.032	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.030	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.029	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.029	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.027	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.027	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.025	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.025	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.024	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.024	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.023	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.000	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.022	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.023	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.11	0.000	0.114	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.00	0.000	0.000	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.021	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.022	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.021	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.021	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.01	0.000	0.009	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.25	0.000	0.010	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.011	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.011	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.011	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.012	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.014	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.015	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.016	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.016	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.016	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.016	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.014	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.014	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.016	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.016	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.009	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.003	0.0900	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.12E-03
130	0.00	0.000	0.001	0.0900	0.0000	0.0000	5.05E-10	0.0000	0.0000	1.11E-03
131	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.01	0.000	0.007	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.23E-09	0.0000	0.0000	1.11E-03
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.02	0.000	0.009	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.03	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.02	0.000	0.010	0.0908	0.0000	0.0000	1.91E-09	0.0000	0.0000	1.10E-03
219	0.00	0.000	0.004	0.0908	0.0000	0.0000	2.28E-13	0.0000	0.0000	1.09E-03
220	0.16	0.000	0.011	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.002	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.010	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.02	0.000	0.018	0.0947	0.0000	0.0000	3.94E-09	0.0000	0.0000	1.09E-03
224	0.01	0.000	0.018	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.011	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.009	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.009	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.010	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.010	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.012	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.014	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.015	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.01	0.000	0.011	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.01	0.000	0.010	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.004	0.0907	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.08E-03
247	0.00	0.000	0.004	0.0906	0.0000	0.0000	3.04E-10	0.0000	0.0000	1.07E-03
248	0.00	0.000	0.004	0.0905	0.0000	0.0000	3.75E-09	0.0000	0.0000	1.07E-03
249	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.38	0.000	0.012	0.1005	0.0000	0.0000	3.43E-09	0.0000	0.0000	1.06E-03
251	0.00	0.000	0.008	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.008	0.1001	0.0000	0.0000	1.70E-09	0.0000	0.0000	1.05E-03
253	0.00	0.000	0.007	0.0999	0.0000	0.0000	4.54E-10	0.0000	0.0000	1.05E-03
254	0.00	0.000	0.007	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.007	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.007	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.007	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.007	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.04	0.000	0.017	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.008	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.01	0.000	0.013	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.008	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.006	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	1.35	0.056	0.015	0.1345	0.0000	0.0000	3.40E-09	0.0000	0.0000	1.04E-03
265	0.18	0.000	0.334	0.1301	0.0000	0.0000	9.02E-10	0.0000	0.0000	1.04E-03
266	0.12	0.000	0.357	0.1236	0.0000	0.0000	1.13E-09	0.0000	0.0000	1.03E-03
267	0.02	0.000	0.305	0.1155	0.0000	0.0000	1.56E-09	0.0000	0.0000	1.03E-03
268	0.00	0.000	0.267	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.237	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.196	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.083	0.0938	0.0000	0.0000	3.20E-09	0.0000	0.0000	1.02E-03
272	0.00	0.000	0.063	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.028	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.008	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.22	0.000	0.012	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.013	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.013	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.013	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.015	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.016	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.016	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.016	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.016	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.016	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.014	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.006	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.32	0.000	0.012	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.019	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.010	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.010	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.009	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.010	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.011	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.012	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.013	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.01	0.000	0.020	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.14	0.000	0.021	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.013	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.011	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.009	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.009	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.010	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.011	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.012	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.011	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.01	0.000	0.017	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.21	0.000	0.050	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	*	0.05	0.000	0.029	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.29	0.000	0.000	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.04	0.000	0.030	0.1033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.06	0.000	0.000	0.1046	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.030	0.1153	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.01	0.000	0.071	0.1135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.19	0.000	0.098	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.060	0.1145	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.043	0.1133	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.1133	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.1133	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.02	0.000	0.056	0.1122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.23	0.000	0.061	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.091	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.110	0.1112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.072	0.1092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.042	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.045	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.063	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.040	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.071	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.056	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.047	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.042	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.028	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.038	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	9.36	2,378,312.9	100.00
Runoff	0.074	18,919.5	0.80
Evapotranspiration	9.401	2,388,697.2	100.44
Drainage Collected from Layer 4	0.0000	11.8	0.00
Percolation/Leakage through Layer 6	0.000000	0.0085	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.018158	4,614.0	0.19
Change in Water Storage	-0.1335	-33,929.7	-1.43
Soil Water at Start of Year	1,028.0350	##########	10983.57
Soil Water at End of Year	1,027.9015	##########	10982.14
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 2

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.036	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.033	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.032	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.34	0.000	0.049	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.31	0.000	0.000	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.07	0.000	0.076	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.089	0.1072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.055	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.054	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.057	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.063	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.053	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.047	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.042	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.037	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.034	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.032	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.025	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.030	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.029	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.000	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.028	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.01	0.000	0.011	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.14	0.000	0.011	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.003	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.013	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.007	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.008	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.006	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.10	0.000	0.013	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.31	0.000	0.054	0.0952	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.01E-03
50	*	0.00	0.000	0.055	0.0957	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.01E-03
51	*	0.03	0.000	0.042	0.0963	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.00E-03
52		0.05	0.000	0.116	0.0983	0.0000	0.0000	6.19E-09	0.0000	0.0000	9.97E-04
53		0.00	0.000	0.012	0.0980	0.0000	0.0000	1.09E-09	0.0000	0.0000	9.92E-04
54		0.00	0.000	0.011	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.011	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.011	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.013	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.014	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.014	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.014	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.014	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.014	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.014	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.014	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.013	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.013	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.013	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.013	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.013	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.012	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.013	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.000	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		1.14	0.020	0.022	0.1217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.13	0.000	0.092	0.1222	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.151	0.1185	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.095	0.1159	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.135	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.134	0.1084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.183	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.196	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.082	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.063	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.054	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.042	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.009	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.002	0.0901	0.0000	0.0001	3.89E-09	0.0000	0.0000	9.87E-04
106		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	*	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.12	0.000	0.012	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.003	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.010	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.008	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.008	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.007	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.006	0.0917	0.0000	0.0000	2.27E-09	0.0000	0.0000	9.81E-04
118		0.00	0.000	0.007	0.0915	0.0000	0.0000	1.10E-09	0.0000	0.0000	9.76E-04
119		0.33	0.000	0.015	0.1003	0.0000	0.0000	3.97E-09	0.0000	0.0000	9.71E-04
120		0.06	0.000	0.022	0.1013	0.0000	0.0000	8.59E-11	0.0000	0.0000	9.66E-04
121		0.00	0.000	0.013	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.013	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.013	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.015	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.016	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.017	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.016	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.015	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	*	0.00	0.000	0.015	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.015	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.015	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.015	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.015	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.016	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.017	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.017	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.017	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.017	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.016	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.016	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.017	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.017	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.016	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.012	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.018	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.013	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.07	0.000	0.011	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.03	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.004	0.0906	0.0000	0.0000	2.83E-09	0.0000	0.0000	9.60E-04

203	0.00	0.000	0.004	0.0904	0.0000	0.0000	4.52E-10	0.0000	0.0000	9.55E-04
204	0.00	0.000	0.004	0.0903	0.0000	0.0000	2.80E-09	0.0000	0.0000	9.50E-04
205	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0901	0.0000	0.0000	2.83E-09	0.0000	0.0000	9.45E-04
207	0.03	0.000	0.012	0.0905	0.0000	0.0000	5.52E-10	0.0000	0.0000	9.41E-04
208	0.00	0.000	0.005	0.0904	0.0000	0.0000	2.83E-09	0.0000	0.0000	9.36E-04
209	0.00	0.000	0.004	0.0903	0.0000	0.0000	4.89E-10	0.0000	0.0000	9.31E-04
210	0.00	0.000	0.004	0.0902	0.0000	0.0000	3.96E-09	0.0000	0.0000	9.26E-04
211	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.58	0.000	0.017	0.1055	0.0000	0.0000	1.52E-09	0.0000	0.0000	9.21E-04
230	0.00	0.000	0.176	0.1007	0.0000	0.0000	8.88E-16	0.0000	0.0000	9.17E-04
231	0.00	0.000	0.012	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.015	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.013	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.013	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.014	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.015	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.015	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.016	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.017	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.017	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.015	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.016	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.014	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.017	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.018	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.020	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.017	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.015	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.016	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.022	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.028	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.023	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.014	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.24	0.000	0.013	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.069	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.014	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.019	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.018	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.016	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.012	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.014	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.010	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.08	0.000	0.014	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.006	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.004	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.005	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.004	0.0922	0.0000	0.0000	2.83E-09	0.0000	0.0000	9.12E-04
279		0.00	0.000	0.004	0.0921	0.0000	0.0000	4.68E-10	0.0000	0.0000	9.08E-04
280		0.00	0.000	0.003	0.0920	0.0000	0.0000	2.27E-09	0.0000	0.0000	9.03E-04
281		0.00	0.000	0.003	0.0919	0.0000	0.0000	1.05E-09	0.0000	0.0000	8.98E-04
282		0.00	0.000	0.003	0.0918	0.0000	0.0000	3.93E-09	0.0000	0.0000	8.94E-04
283		0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.01	0.000	0.010	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.003	0.0916	0.0000	0.0000	2.83E-09	0.0000	0.0000	8.90E-04
288		0.00	0.000	0.003	0.0915	0.0000	0.0000	4.20E-10	0.0000	0.0000	8.85E-04
289		0.00	0.000	0.003	0.0915	0.0000	0.0000	1.70E-09	0.0000	0.0000	8.81E-04
290		0.18	0.000	0.013	0.0962	0.0000	0.0000	1.30E-09	0.0000	0.0000	8.77E-04
291		0.00	0.000	0.052	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.064	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.007	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.008	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.008	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.003	0.0917	0.0000	0.0000	2.70E-09	0.0000	0.0000	8.72E-04
300		0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.002	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.002	0.0915	0.0000	0.0000	2.79E-09	0.0000	0.0000	8.68E-04
304		0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.002	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	8.64E-04
306		0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.002	0.0912	0.0000	0.0000	2.79E-09	0.0000	0.0000	8.60E-04

308	*	0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.002	0.0911	0.0000	0.0000	2.79E-09	0.0000	0.0000	8.56E-04
310	*	0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	6.24E-09	0.0000	0.0000	8.52E-04
312	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	6.80E-09	0.0000	0.0000	8.48E-04
313	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	6.80E-09	0.0000	0.0000	8.44E-04
314	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	6.80E-09	0.0000	0.0000	8.40E-04
315		0.00	0.000	0.002	0.0910	0.0000	0.0000	6.48E-10	0.0000	0.0000	8.36E-04
316		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	*	0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.002	0.0907	0.0000	0.0000	2.21E-09	0.0000	0.0000	8.32E-04
324	*	0.00	0.000	0.002	0.0907	0.0000	0.0000	4.73E-09	0.0000	0.0000	8.28E-04
325		0.00	0.000	0.002	0.0906	0.0000	0.0000	3.86E-09	0.0000	0.0000	8.24E-04
326		0.00	0.000	0.002	0.0905	0.0000	0.0000	9.16E-10	0.0000	0.0000	8.21E-04
327		0.00	0.000	0.002	0.0905	0.0000	0.0000	2.83E-09	0.0000	0.0000	8.17E-04
328		0.00	0.000	0.002	0.0904	0.0000	0.0000	4.08E-09	0.0000	0.0000	8.13E-04
329	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	4.97E-09	0.0000	0.0000	8.09E-04
330	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	3.82E-09	0.0000	0.0000	8.06E-04
331	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	3.88E-09	0.0000	0.0000	8.02E-04
332		0.00	0.000	0.002	0.0904	0.0000	0.0000	1.09E-09	0.0000	0.0000	7.99E-04
333		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.002	0.0903	0.0000	0.0000	9.21E-10	0.0000	0.0000	7.95E-04
335		0.00	0.000	0.002	0.0902	0.0000	0.0000	1.13E-09	0.0000	0.0000	7.91E-04
336		0.00	0.000	0.002	0.0902	0.0000	0.0000	1.96E-09	0.0000	0.0000	7.88E-04
337		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.002	0.0900	0.0000	0.0000	4.89E-09	0.0000	0.0000	7.84E-04
339		0.00	0.000	0.001	0.0900	0.0000	0.0000	4.44E-16	0.0000	0.0000	7.81E-04
340		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0900	0.0000	0.0000	2.77E-09	0.0000	0.0000	7.78E-04
342		0.10	0.000	0.012	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.001	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.003	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.003	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.003	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.002	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.002	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.002	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.002	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.002	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.002	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.002	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 2			
	inches	cubic feet	percent
Precipitation	4.45	1,131,979.7	100.00
Runoff	0.020	4,979.7	0.44
Evapotranspiration	4.616	1,172,951.3	103.62
Drainage Collected from Layer 4	0.0002	48.4	0.00
Percolation/Leakage through Layer 6	0.000000	0.0403	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.048733	12,383.0	1.09
Change in Water Storage	-0.2298	-58,382.7	-5.16
Soil Water at Start of Year	1,027.9015	##########	23073.72
Soil Water at End of Year	1,027.6717	##########	23068.56
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 3

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.002	0.0908	0.0000	0.0000	4.34E-10	0.0000	0.0000	7.74E-04
7			0.00	0.000	0.002	0.0907	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.71E-04
8			0.00	0.000	0.002	0.0906	0.0000	0.0000	1.08E-09	0.0000	0.0000	7.68E-04
9			0.00	0.000	0.002	0.0906	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.64E-04
10			0.00	0.000	0.002	0.0905	0.0000	0.0000	1.05E-09	0.0000	0.0000	7.61E-04
11			0.00	0.000	0.002	0.0905	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.58E-04
12			0.00	0.000	0.002	0.0904	0.0000	0.0000	2.10E-09	0.0000	0.0000	7.55E-04
13			0.00	0.000	0.002	0.0904	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.51E-04
14			0.00	0.000	0.002	0.0903	0.0000	0.0000	2.18E-09	0.0000	0.0000	7.48E-04
15			0.00	0.000	0.002	0.0903	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.45E-04
16			0.03	0.000	0.011	0.0907	0.0000	0.0000	9.32E-10	0.0000	0.0000	7.42E-04
17			0.21	0.000	0.011	0.0963	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.39E-04
18	*		0.64	0.000	0.052	0.0969	0.0000	0.0000	1.02E-09	0.0000	0.0000	7.36E-04
19	*		0.46	0.000	0.048	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.02	0.000	0.000	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.062	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.1140	0.0000	0.0000	1.13E-09	0.0000	0.0000	7.33E-04
23			0.00	0.000	0.109	0.1196	0.0000	0.0000	5.40E-10	0.0000	0.0000	7.30E-04
24			0.00	0.000	0.089	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.124	0.1137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.076	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.116	0.1084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.084	0.1060	0.0000	0.0000	2.25E-09	0.0000	0.0000	7.27E-04
29		0.00	0.000	0.105	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.082	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.109	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.066	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.124	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.063	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.007	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.37	0.000	0.014	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.071	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.089	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.094	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.066	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.027	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.57	0.000	0.031	0.1051	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.20	0.000	0.065	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.071	0.1070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.110	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.145	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.162	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.140	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.033	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.02	0.000	0.021	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.03	0.000	0.020	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.009	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.01	0.000	0.013	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.23	0.000	0.015	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.016	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.015	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.015	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.018	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.019	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.019	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.018	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.018	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.017	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.007	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.007	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.006	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.006	0.0905	0.0000	0.0000	1.41E-09	0.0000	0.0000	7.24E-04
100		0.14	0.000	0.015	0.0940	0.0000	0.0000	3.60E-09	0.0000	0.0000	7.21E-04
101		0.07	0.000	0.014	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.011	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.012	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.012	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.013	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.015	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.016	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.016	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.015	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.016	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.013	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.005	0.0909	0.0000	0.0000	5.34E-10	0.0000	0.0000	7.18E-04
118		0.00	0.000	0.005	0.0907	0.0000	0.0000	2.74E-09	0.0000	0.0000	7.15E-04
119		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.0905	0.0000	0.0000	3.75E-09	0.0000	0.0000	7.12E-04
121		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.05	0.000	0.013	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.13	0.000	0.013	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.002	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.009	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.010	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	*	0.00	0.000	0.011	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.012	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.013	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.005	0.0914	0.0000	0.0000	1.09E-09	0.0000	0.0000	7.09E-04
140	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.005	0.0910	0.0000	0.0000	3.97E-09	0.0000	0.0000	7.06E-04
143	0.00	0.000	0.005	0.0909	0.0000	0.0000	6.37E-10	0.0000	0.0000	7.04E-04
144	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.005	0.0902	0.0000	0.0000	3.39E-09	0.0000	0.0000	7.01E-04
149	0.00	0.000	0.004	0.0900	0.0000	0.0000	5.58E-10	0.0000	0.0000	6.98E-04
150	0.00	0.000	0.001	0.0900	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.95E-04
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	1.57E-10	0.0000	0.0000	6.93E-04
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.90E-09	0.0000	0.0000	6.90E-04
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.01	0.000	0.009	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.01	0.000	0.010	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.002	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.24	0.000	0.015	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.136	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.015	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.014	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.014	0.0932	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.87E-04
198	0.00	0.000	0.016	0.0928	0.0000	0.0000	1.08E-10	0.0000	0.0000	6.84E-04
199	0.00	0.000	0.019	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.017	0.0918	0.0000	0.0000	1.54E-09	0.0000	0.0000	6.82E-04
201	0.00	0.000	0.008	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0909	0.0000	0.0000	3.88E-09	0.0000	0.0000	6.79E-04
207	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.01	0.000	0.011	0.0907	0.0000	0.0000	7.33E-10	0.0000	0.0000	6.77E-04
210	0.00	0.000	0.003	0.0906	0.0000	0.0000	2.28E-13	0.0000	0.0000	6.74E-04
211	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.003	0.0900	0.0000	0.0000	1.09E-09	0.0000	0.0000	6.71E-04
216	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.36	0.000	0.012	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.11	0.000	0.069	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.083	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.01	0.000	0.171	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.10	0.000	0.110	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.043	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.040	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.019	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.017	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.05	0.000	0.018	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.011	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.010	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.009	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.14	0.000	0.015	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.014	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.011	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.009	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.006	0.0919	0.0000	0.0000	1.70E-09	0.0000	0.0000	6.69E-04
324	*	0.00	0.000	0.006	0.0917	0.0000	0.0000	1.97E-09	0.0000	0.0000	6.66E-04
325		0.00	0.000	0.006	0.0915	0.0000	0.0000	2.84E-09	0.0000	0.0000	6.64E-04
326		0.00	0.000	0.006	0.0914	0.0000	0.0000	9.23E-10	0.0000	0.0000	6.61E-04
327		0.00	0.000	0.006	0.0912	0.0000	0.0000	3.95E-09	0.0000	0.0000	6.59E-04
328		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.005	0.0906	0.0000	0.0000	1.54E-09	0.0000	0.0000	6.56E-04
332		0.00	0.000	0.005	0.0905	0.0000	0.0000	2.80E-09	0.0000	0.0000	6.54E-04
333		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.005	0.0902	0.0000	0.0000	2.83E-09	0.0000	0.0000	6.51E-04
335	*	0.00	0.000	0.005	0.0900	0.0000	0.0000	1.14E-10	0.0000	0.0000	6.49E-04
336	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.001	0.0900	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.47E-04
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	6.08E-10	0.0000	0.0000	6.44E-04
339		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.53E-09	0.0000	0.0000	6.42E-04
340		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 3			
	inches	cubic feet	percent
Precipitation	4.32	1,096,884.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.355	1,106,539.7	100.88
Drainage Collected from Layer 4	0.0000	10.8	0.00
Percolation/Leakage through Layer 6	0.000000	0.0265	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.033802	8,589.1	0.78
Change in Water Storage	-0.0718	-18,255.4	-1.66
Soil Water at Start of Year	1,027.6717	##########	23806.65
Soil Water at End of Year	1,027.5999	##########	23804.99
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 4

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.09	0.000	0.012	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.002	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.013	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.002	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.005	0.0924	0.0000	0.0000	5.67E-10	0.0000	0.0000	6.40E-04
36		0.00	0.000	0.004	0.0923	0.0000	0.0000	1.18E-09	0.0000	0.0000	6.37E-04
37		0.00	0.000	0.004	0.0922	0.0000	0.0000	3.72E-09	0.0000	0.0000	6.35E-04
38		0.00	0.000	0.004	0.0921	0.0000	0.0000	2.83E-09	0.0000	0.0000	6.33E-04
39		0.00	0.000	0.004	0.0920	0.0000	0.0000	2.21E-10	0.0000	0.0000	6.30E-04
40		0.00	0.000	0.006	0.0919	0.0000	0.0000	3.97E-09	0.0000	0.0000	6.28E-04
41		0.00	0.000	0.003	0.0918	0.0000	0.0000	1.04E-10	0.0000	0.0000	6.26E-04
42		0.02	0.000	0.012	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.002	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.003	0.0918	0.0000	0.0000	2.83E-09	0.0000	0.0000	6.24E-04
46	*	0.00	0.000	0.003	0.0917	0.0000	0.0000	5.45E-10	0.0000	0.0000	6.21E-04
47		0.00	0.000	0.003	0.0916	0.0000	0.0000	1.70E-09	0.0000	0.0000	6.19E-04
48		0.34	0.000	0.014	0.1006	0.0000	0.0000	1.25E-09	0.0000	0.0000	6.17E-04
49		0.00	0.000	0.077	0.0985	0.0000	0.0000	2.83E-09	0.0000	0.0000	6.15E-04
50		0.00	0.000	0.101	0.0957	0.0000	0.0000	1.18E-10	0.0000	0.0000	6.13E-04
51		0.00	0.000	0.135	0.0919	0.0000	0.0000	3.62E-09	0.0000	0.0000	6.10E-04
52		0.00	0.000	0.046	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.014	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.08	0.000	0.073	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.02	0.000	0.021	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.008	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.36	0.000	0.016	0.0996	0.0000	0.0000	3.37E-09	0.0000	0.0000	6.08E-04
62		0.00	0.000	0.101	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.141	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.031	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.026	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.017	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.009	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.30	0.000	0.015	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.053	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.065	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.021	0.0942	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.06E-04
76		0.00	0.000	0.021	0.0936	0.0000	0.0000	8.20E-10	0.0000	0.0000	6.04E-04
77		0.00	0.000	0.021	0.0930	0.0000	0.0000	3.17E-09	0.0000	0.0000	6.02E-04
78		0.00	0.000	0.020	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.019	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.018	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.012	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.007	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.007	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.006	0.0904	0.0000	0.0001	3.97E-09	0.0000	0.0000	6.00E-04
86		0.00	0.000	0.006	0.0903	0.0000	0.0000	1.07E-09	0.0000	0.0000	5.98E-04
87		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.03	0.000	0.014	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.005	0.0901	0.0000	0.0000	1.82E-09	0.0000	0.0000	5.96E-04
93		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.02	0.000	0.012	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.03	0.000	0.012	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.12	0.000	0.013	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.10	0.000	0.013	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.04	0.000	0.020	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.013	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.011	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.10	0.000	0.020	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.06	0.000	0.135	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.03	0.000	0.023	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.01	0.000	0.080	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.03	0.000	0.024	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.015	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.015	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.014	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.008	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.004	0.0918	0.0000	0.0000	1.13E-09	0.0000	0.0000	5.94E-04

133	0.00	0.000	0.004	0.0917	0.0000	0.0000	1.68E-09	0.0000	0.0000	5.92E-04
134	0.00	0.000	0.004	0.0915	0.0000	0.0000	3.40E-09	0.0000	0.0000	5.90E-04
135	0.00	0.000	0.004	0.0914	0.0000	0.0000	1.92E-10	0.0000	0.0000	5.88E-04
136	0.00	0.000	0.004	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.86E-04
137	0.00	0.000	0.004	0.0912	0.0000	0.0000	2.99E-10	0.0000	0.0000	5.84E-04
138	0.00	0.000	0.004	0.0911	0.0000	0.0000	3.50E-09	0.0000	0.0000	5.82E-04
139	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.0903	0.0000	0.0000	1.35E-09	0.0000	0.0000	5.80E-04
146	0.00	0.000	0.004	0.0902	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.78E-04
147	0.00	0.000	0.004	0.0900	0.0000	0.0000	1.57E-10	0.0000	0.0000	5.76E-04
148	0.00	0.000	0.001	0.0900	0.0000	0.0000	3.39E-09	0.0000	0.0000	5.74E-04
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.40E-09	0.0000	0.0000	5.72E-04
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.08	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.0912	0.0000	0.0000	3.56E-09	0.0000	0.0000	5.70E-04
193	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.03	0.000	0.013	0.0915	0.0000	0.0000	5.67E-10	0.0000	0.0000	5.68E-04
195	0.53	0.000	0.020	0.1058	0.0000	0.0000	1.95E-09	0.0000	0.0000	5.67E-04
196	0.01	0.000	0.240	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.280	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.041	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.011	0.0902	0.0000	0.0000	2.27E-09	0.0000	0.0000	5.65E-04
200	0.00	0.000	0.005	0.0901	0.0000	0.0000	8.22E-10	0.0000	0.0000	5.63E-04
201	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.15	0.000	0.015	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.08	0.000	0.015	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.01	0.000	0.022	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.34	0.000	0.025	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.167	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.219	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.58	0.000	0.033	0.1085	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.321	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.235	0.0931	0.0000	0.0000	3.97E-09	0.0000	0.0000	5.61E-04
231		0.16	0.000	0.135	0.0937	0.0000	0.0000	2.10E-10	0.0000	0.0000	5.59E-04
232		0.08	0.000	0.033	0.0950	0.0000	0.0000	1.70E-09	0.0000	0.0000	5.57E-04
233		0.03	0.000	0.035	0.0950	0.0000	0.0000	2.16E-09	0.0000	0.0000	5.56E-04
234		0.12	0.000	0.051	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.21	0.000	0.049	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.02	0.000	0.177	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.46	0.000	0.055	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.12	0.000	0.343	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.01	0.000	0.294	0.0939	0.0000	0.0000	2.27E-09	0.0000	0.0000	5.54E-04
240	0.00	0.000	0.094	0.0913	0.0000	0.0000	1.28E-09	0.0000	0.0000	5.52E-04
241	0.00	0.000	0.025	0.0905	0.0000	0.0001	1.14E-09	0.0000	0.0000	5.50E-04
242	0.00	0.000	0.011	0.0902	0.0000	0.0000	3.37E-09	0.0000	0.0000	5.49E-04
243	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.002	0.0900	0.0000	0.0001	1.14E-09	0.0000	0.0000	5.47E-04
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.69E-09	0.0000	0.0000	5.45E-04
246	0.06	0.000	0.018	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.011	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.011	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.92E-09	0.0000	0.0000	5.43E-04
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.56	0.000	0.021	0.1050	0.0000	0.0000	5.93E-10	0.0000	0.0000	5.42E-04
288	*	0.08	0.000	0.068	0.1053	0.0000	0.0000	1.66E-09	0.0000	0.0000	5.40E-04
289		0.07	0.000	0.074	0.1053	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.38E-04
290		0.00	0.000	0.092	0.1027	0.0000	0.0000	5.18E-10	0.0000	0.0000	5.37E-04
291		0.00	0.000	0.095	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.105	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.076	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.055	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.041	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.053	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.023	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.12	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.005	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.20	0.000	0.021	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.026	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.143	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.018	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.018	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.017	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		1.26	0.037	0.029	0.1290	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.112	0.1259	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.106	0.1230	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.082	0.1207	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.070	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.087	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.095	0.1137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.050	0.1123	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.1123	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.080	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.128	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.081	0.1043	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.134	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.103	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.056	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.056	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.01	0.000	0.060	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.053	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.031	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.01	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.27	0.000	0.017	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.01	0.000	0.026	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.018	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.017	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.021	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.022	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.021	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.020	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.020	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.019	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.019	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.16	0.000	0.029	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.01	0.000	0.019	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.41	0.000	0.025	0.1063	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.01	0.000	0.045	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.046	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.091	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.099	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.077	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.073	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 4			
	inches	cubic feet	percent
Precipitation	8.24	2,095,022.3	100.00
Runoff	0.037	9,496.0	0.45
Evapotranspiration	8.046	2,044,383.3	97.58
Drainage Collected from Layer 4	0.0004	109.7	0.01
Percolation/Leakage through Layer 6	0.000000	0.0266	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.031020	7,882.3	0.38
Change in Water Storage	0.1305	33,151.0	1.58
Soil Water at Start of Year	1,027.5999	##########	12463.50
Soil Water at End of Year	1,027.7303	##########	12465.08
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 5

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.13	0.000	0.067	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.052	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.043	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.028	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.015	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.012	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.011	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.009	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.009	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.04	0.000	0.041	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.35	0.000	0.047	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.02	0.000	0.077	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.07	0.000	0.068	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.70	0.000	0.024	0.1159	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.102	0.1131	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.092	0.1105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28			0.00	0.000	0.065	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29			0.00	0.000	0.053	0.1072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30			0.00	0.000	0.070	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31			0.18	0.000	0.068	0.1084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32			0.16	0.000	0.071	0.1109	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.21	0.000	0.106	0.1138	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*		0.00	0.000	0.063	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.000	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.03	0.000	0.026	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*		0.02	0.000	0.017	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38			0.00	0.000	0.078	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39			0.00	0.000	0.076	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40			0.00	0.000	0.091	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*		0.00	0.000	0.000	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42			0.00	0.000	0.082	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43			0.00	0.000	0.119	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44			0.00	0.000	0.130	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45			0.00	0.000	0.076	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46			0.00	0.000	0.063	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47			0.00	0.000	0.039	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*		0.13	0.000	0.051	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.35	0.000	0.029	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*		0.58	0.000	0.038	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51			0.00	0.000	0.077	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*		0.00	0.000	0.056	0.1136	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.12	0.000	0.093	0.1144	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*		0.00	0.000	0.071	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*		0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*		0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*		0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*		0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	*	0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	*	0.00	0.000	0.000	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		*	0.16	0.009	0.012	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62			0.00	0.000	0.160	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.01	0.000	0.142	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.170	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.169	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.096	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.082	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.063	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.25	0.000	0.054	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.27	0.000	0.046	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.069	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.106	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.155	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.075	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.054	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.012	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	*	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.16	0.000	0.014	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.003	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.011	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.011	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.013	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.014	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.014	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.35E-04
123		0.00	0.000	0.005	0.0912	0.0000	0.0000	3.75E-10	0.0000	0.0000	5.33E-04
124		0.00	0.000	0.004	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.32E-04
125		0.00	0.000	0.004	0.0909	0.0000	0.0000	3.04E-11	0.0000	0.0000	5.30E-04
126		0.00	0.000	0.004	0.0908	0.0000	0.0000	2.83E-09	0.0000	0.0000	5.28E-04
127	*	0.00	0.000	0.004	0.0907	0.0000	0.0000	3.31E-10	0.0000	0.0000	5.27E-04
128	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	6.24E-09	0.0000	0.0000	5.25E-04
129	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	6.80E-09	0.0000	0.0000	5.24E-04
130	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	6.80E-09	0.0000	0.0000	5.22E-04
131		0.00	0.000	0.004	0.0906	0.0000	0.0000	5.08E-09	0.0000	0.0000	5.20E-04
132	*	0.00	0.000	0.004	0.0905	0.0000	0.0000	2.80E-09	0.0000	0.0000	5.19E-04

133	0.00	0.000	0.004	0.0903	0.0000	0.0000	3.92E-09	0.0000	0.0000	5.17E-04
134	0.00	0.000	0.006	0.0902	0.0000	0.0000	4.44E-16	0.0000	0.0000	5.16E-04
135	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.84E-09	0.0000	0.0000	5.14E-04
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.02	0.000	0.011	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.003	0.0900	0.0000	0.0000	2.57E-10	0.0000	0.0000	5.13E-04
145	0.01	0.000	0.010	0.0900	0.0000	0.0000	2.28E-13	0.0000	0.0000	5.11E-04
146	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.01	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.01	0.000	0.009	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.001	0.0900	0.0000	0.0000	1.09E-09	0.0000	0.0000	5.10E-04
211	0.16	0.000	0.014	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.002	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.007	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.008	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.007	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.009	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.010	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.009	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.009	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.05	0.000	0.015	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.09	0.000	0.014	0.0952	0.0000	0.0000	3.92E-09	0.0000	0.0000	5.08E-04
223	0.12	0.000	0.019	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.98	0.007	0.019	0.1247	0.0000	0.0000	5.67E-10	0.0000	0.0000	5.07E-04
225	0.00	0.000	0.180	0.1197	0.0000	0.0000	2.48E-09	0.0000	0.0000	5.05E-04
226	0.00	0.000	0.250	0.1128	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.218	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.217	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.258	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.098	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.83	0.000	0.075	0.1118	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.190	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.269	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.257	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.048	0.0906	0.0000	0.0002	2.84E-09	0.0000	0.0000	5.04E-04
236	0.00	0.000	0.013	0.0902	0.0000	0.0002	3.60E-09	0.0000	0.0000	5.02E-04
237	0.00	0.000	0.007	0.0901	0.0000	0.0001	5.36E-09	0.0000	0.0000	5.01E-04

238	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.01	0.000	0.007	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.20	0.000	0.016	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.003	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.08	0.000	0.026	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.24	0.000	0.029	0.1023	0.0000	0.0000	9.80E-10	0.0000	0.0000	4.99E-04
270	0.16	0.000	0.158	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.13	0.000	0.150	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.191	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.168	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.052	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.03	0.000	0.016	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.07	0.000	0.016	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.01	0.000	0.011	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.003	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.007	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.36	0.000	0.020	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.18	0.000	0.100	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.01	0.000	0.055	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.02	0.000	0.058	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.085	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.088	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	*	0.00	0.000	0.047	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.056	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.048	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.035	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.034	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.011	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.23	0.000	0.016	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.03	0.000	0.025	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.013	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.013	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.016	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.017	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.017	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.017	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.14	0.000	0.029	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.017	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.015	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.012	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.013	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.014	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.015	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.015	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.015	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.014	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.014	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.013	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.15	0.000	0.017	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.004	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.06	0.000	0.052	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.010	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.009	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.009	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.011	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.012	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.012	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.012	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.012	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.000	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.44	0.000	0.036	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 5			
	inches	cubic feet	percent
Precipitation	8.77	2,227,405.9	100.00
Runoff	0.016	3,982.2	0.18
Evapotranspiration	8.414	2,138,045.9	95.99
Drainage Collected from Layer 4	0.0005	130.9	0.01
Percolation/Leakage through Layer 6	0.000000	0.0167	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.012401	3,151.2	0.14
Change in Water Storage	0.3231	82,095.7	3.69
Soil Water at Start of Year	1,027.7303	##########	11724.23
Soil Water at End of Year	1,027.6722	##########	11723.57
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.3813	96,878.4	4.35
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 6

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6 Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.043	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.079	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.013	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.013	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.013	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.06	0.000	0.025	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.012	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.011	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.008	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.009	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.010	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.011	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.011	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.011	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.011	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.011	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.011	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.011	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.010	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.010	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.010	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.010	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.010	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.010	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.010	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.010	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.010	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.000	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.010	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*	0.03	0.000	0.032	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.010	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.000	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.09	0.000	0.065	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.013	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.010	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.010	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.010	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.010	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.28	0.000	0.022	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.01	0.000	0.019	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.01	0.000	0.017	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.08	0.000	0.023	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.49	0.000	0.132	0.1106	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.132	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.147	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.166	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.157	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.082	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.039	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.001	0.0900	0.0000	0.0001	3.71E-09	0.0000	0.0000	4.98E-04
64		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.11	0.000	0.015	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.24	0.000	0.015	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.009	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.009	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.009	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.009	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.011	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.012	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.013	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.013	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.014	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.013	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.014	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.014	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.013	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.012	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.014	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.013	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.013	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.014	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.013	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.012	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.012	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	*	0.00	0.000	0.012	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.013	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.012	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.013	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.01	0.000	0.010	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.000	0.0900	0.0000	0.0000	4.95E-10	0.0000	0.0000	4.96E-04
143		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.16	0.000	0.015	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.02	0.000	0.012	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.11	0.000	0.021	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.010	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.010	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.010	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.010	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.011	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.011	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.013	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.015	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.013	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.013	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.014	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.015	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.015	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.018	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.008	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.007	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0902	0.0000	0.0000	1.22E-09	0.0000	0.0000	4.95E-04
211	0.00	0.000	0.004	0.0901	0.0000	0.0000	3.66E-09	0.0000	0.0000	4.93E-04
212	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.03	0.000	0.014	0.0904	0.0000	0.0000	4.71E-10	0.0000	0.0000	4.92E-04
215	0.38	0.000	0.016	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.21	0.000	0.246	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.206	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.020	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.020	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.022	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.021	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.012	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.007	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.005	0.0903	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.91E-04
229	0.00	0.000	0.005	0.0902	0.0000	0.0000	7.21E-10	0.0000	0.0000	4.89E-04
230	0.00	0.000	0.004	0.0901	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.88E-04
231	0.00	0.000	0.003	0.0900	0.0000	0.0000	3.91E-10	0.0000	0.0000	4.86E-04
232	0.00	0.000	0.005	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.85E-04
233	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.80E-10	0.0000	0.0000	4.84E-04
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.91E-09	0.0000	0.0000	4.82E-04
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.11	0.000	0.015	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.02	0.000	0.011	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.18	0.000	0.015	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.113	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.007	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.37	0.000	0.022	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.205	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.158	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.086	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.027	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.02	0.000	0.017	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.02	0.000	0.016	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.19	0.000	0.018	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.003	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.014	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.014	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.017	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.018	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.018	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.011	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.008	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.006	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.08	0.000	0.015	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.12	0.000	0.016	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.002	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.006	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.006	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.006	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.006	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.007	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.008	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.008	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.009	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 6			
	inches	cubic feet	percent
Precipitation	3.42	868,583.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.818	970,199.0	111.70
Drainage Collected from Layer 4	0.0001	21.9	0.00
Percolation/Leakage through Layer 6	0.000000	0.0060	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.005879	1,493.9	0.17
Change in Water Storage	-0.4059	-103,131.5	-11.87
Soil Water at Start of Year	1,027.6722	##########	30064.07
Soil Water at End of Year	1,027.6476	##########	30063.35
Snow Water at Start of Year	0.3813	96,878.4	11.15
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 7

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.008	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.008	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.06	0.000	0.016	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.27	0.000	0.015	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.94	0.000	0.039	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.1239	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.074	0.1219	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.145	0.1178	0.0000	0.0000	3.40E-09	0.0000	0.0000	4.81E-04
31		0.00	0.000	0.170	0.1131	0.0000	0.0000	2.26E-09	0.0000	0.0000	4.80E-04
32		0.00	0.000	0.098	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.060	0.1088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.06	0.000	0.119	0.1070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.139	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.142	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.148	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.087	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.060	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.02	0.000	0.014	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.56	0.000	0.044	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.068	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.67	0.000	0.093	0.1189	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.09	0.000	0.146	0.1173	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.086	0.1149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.161	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.132	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.176	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.164	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.174	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.02	0.000	0.069	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.01	0.000	0.013	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.08	0.000	0.017	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.006	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.006	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.006	0.0906	0.0000	0.0000	3.50E-09	0.0000	0.0000	4.78E-04
96	0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.07	0.000	0.017	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.03	0.000	0.015	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.003	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.13	0.000	0.018	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.04	0.000	0.016	0.0951	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.77E-04
110	0.00	0.000	0.010	0.0948	0.0000	0.0000	4.12E-10	0.0000	0.0000	4.76E-04
111	0.00	0.000	0.010	0.0945	0.0000	0.0000	3.48E-09	0.0000	0.0000	4.74E-04
112	0.00	0.000	0.010	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.011	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.013	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.014	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.013	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.014	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.014	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.004	0.0909	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.73E-04
127	0.00	0.000	0.004	0.0907	0.0000	0.0000	4.67E-11	0.0000	0.0000	4.72E-04
128	0.00	0.000	0.004	0.0906	0.0000	0.0000	3.46E-09	0.0000	0.0000	4.70E-04
129	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.08	0.000	0.018	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.003	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.005	0.0918	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.69E-04
134	0.00	0.000	0.005	0.0917	0.0000	0.0000	3.95E-10	0.0000	0.0000	4.68E-04
135	0.00	0.000	0.005	0.0916	0.0000	0.0000	3.40E-09	0.0000	0.0000	4.66E-04
136	0.00	0.000	0.005	0.0914	0.0000	0.0000	3.76E-10	0.0000	0.0000	4.65E-04
137	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.10	0.000	0.018	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.003	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.007	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.005	0.0919	0.0000	0.0000	2.27E-09	0.0000	0.0000	4.64E-04
152	0.00	0.000	0.005	0.0917	0.0000	0.0000	9.97E-10	0.0000	0.0000	4.63E-04
153	0.00	0.000	0.005	0.0916	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.61E-04
154	0.00	0.000	0.005	0.0915	0.0000	0.0000	4.13E-10	0.0000	0.0000	4.60E-04
155	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.005	0.0908	0.0000	0.0000	3.48E-09	0.0000	0.0000	4.59E-04
160	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.03	0.000	0.014	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.12	0.000	0.016	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.08	0.000	0.016	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.06	0.000	0.022	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.007	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.007	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.011	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.008	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.008	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.009	0.0946	0.0000	0.0000	4.34E-10	0.0000	0.0000	4.58E-04
239	0.00	0.000	0.009	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.009	0.0941	0.0000	0.0000	1.07E-09	0.0000	0.0000	4.56E-04
241	0.00	0.000	0.010	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.010	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.010	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.009	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.008	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.008	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.008	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.009	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.008	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.008	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.70	0.000	0.023	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.51	0.000	0.109	0.1213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.119	0.1179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.227	0.1116	0.0000	0.0000	1.70E-09	0.0000	0.0000	4.55E-04
256	0.00	0.000	0.236	0.1051	0.0000	0.0000	2.09E-09	0.0000	0.0000	4.54E-04
257	0.00	0.000	0.223	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.03	0.000	0.191	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.135	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.18	0.000	0.025	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.009	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.029	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.023	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.017	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.012	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.011	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.010	0.0908	0.0000	0.0003	3.98E-09	0.0000	0.0000	4.53E-04
272	0.00	0.000	0.009	0.0906	0.0000	0.0000	1.46E-09	0.0000	0.0000	4.52E-04

273		0.00	0.000	0.008	0.0904	0.0000	0.0000	3.97E-09	0.0000	0.0000	4.50E-04
274		0.00	0.000	0.008	0.0901	0.0000	0.0000	8.25E-10	0.0000	0.0000	4.49E-04
275		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.001	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.48E-04
277		0.00	0.000	0.000	0.0900	0.0000	0.0000	4.65E-10	0.0000	0.0000	4.47E-04
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.86E-09	0.0000	0.0000	4.46E-04
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.06	0.000	0.017	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.005	0.0902	0.0000	0.0000	3.38E-09	0.0000	0.0000	4.44E-04
299		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.002	0.0900	0.0000	0.0000	3.72E-09	0.0000	0.0000	4.43E-04
301		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	1.13E-09	0.0000	0.0000	4.42E-04
303		0.05	0.000	0.017	0.0909	0.0000	0.0000	8.34E-10	0.0000	0.0000	4.41E-04
304		0.09	0.000	0.017	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.002	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.008	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.27	0.000	0.021	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.19	0.000	0.047	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.048	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.093	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.097	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.095	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.071	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.00	0.000	0.039	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	*	0.00	0.000	0.000	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.035	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.45	0.000	0.020	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.105	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.070	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.040	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.068	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.043	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.052	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.039	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.012	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.17	0.000	0.018	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.05	0.000	0.018	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.10	0.000	0.029	0.0970	0.0000	0.0000	5.67E-09	0.0000	0.0000	4.40E-04
353		0.00	0.000	0.077	0.0949	0.0000	0.0000	1.11E-09	0.0000	0.0000	4.39E-04
354		0.00	0.000	0.020	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.020	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.019	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.018	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.018	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.015	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.007	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.05	0.000	0.051	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 7			
	inches	cubic feet	percent
Precipitation	6.41	1,629,929.9	100.00
Runoff	0.000	90.6	0.01
Evapotranspiration	6.475	1,645,301.8	100.94
Drainage Collected from Layer 4	0.0004	94.4	0.01
Percolation/Leakage through Layer 6	0.000000	0.0198	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.016072	4,083.8	0.25
Change in Water Storage	-0.0773	-19,640.7	-1.21
Soil Water at Start of Year	1,027.6476	##########	16020.64
Soil Water at End of Year	1,027.5703	##########	16019.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 8

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.12	0.000	0.033	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.97	0.000	0.030	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.04	0.000	0.000	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.053	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.050	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.13	0.000	0.000	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.05	0.000	0.056	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.04	0.000	0.000	0.1110	0.0000	0.0000	5.67E-09	0.0000	0.0000	4.38E-04
30		0.17	0.000	0.041	0.1248	0.0000	0.0000	2.81E-09	0.0000	0.0000	4.36E-04
31		0.00	0.000	0.106	0.1219	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.128	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.121	0.1149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.123	0.1115	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.161	0.1070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.214	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.118	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.070	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.107	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.069	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.25	0.000	0.033	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.89	0.002	0.053	0.1202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.84	0.000	0.042	0.1208	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.39	0.000	0.049	0.1213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.06	0.039	0.000	0.1519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		1.03	0.058	0.116	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.43	0.000	0.117	0.1848	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.19	0.000	0.122	0.1868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.01	0.000	0.071	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.000	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.00	0.000	0.000	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.105	0.1821	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.154	0.1778	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.153	0.1735	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.12	0.000	0.167	0.1722	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.03	0.000	0.110	0.1699	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.02	0.000	0.097	0.1677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.26	0.000	0.133	0.1712	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.06	0.000	0.117	0.1695	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.12	0.000	0.076	0.1707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.063	0.1690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.113	0.1658	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.138	0.1620	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.097	0.1593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.096	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.154	0.1524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.163	0.1479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.083	0.1456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.064	0.1438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.054	0.1423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.048	0.1410	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.043	0.1398	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.040	0.1387	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.038	0.1376	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.037	0.1366	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.034	0.1357	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.032	0.1348	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.031	0.1339	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.029	0.1331	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.028	0.1323	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.00	0.000	0.027	0.1316	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.1316	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.000	0.1316	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.026	0.1309	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.01	0.000	0.034	0.1302	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.26	0.000	0.066	0.1308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.179	0.1307	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.024	0.1301	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.025	0.1294	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.023	0.1287	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.023	0.1281	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.024	0.1274	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.023	0.1268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.023	0.1262	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.023	0.1255	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.023	0.1249	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.01	0.000	0.034	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.022	0.1237	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.024	0.1230	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.03	0.000	0.035	0.1228	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.023	0.1222	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.023	0.1215	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.023	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.022	0.1203	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.020	0.1197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.021	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.024	0.1185	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.026	0.1178	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.027	0.1170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.028	0.1162	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.026	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.028	0.1147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.027	0.1140	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.026	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.024	0.1126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.022	0.1120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.025	0.1113	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.022	0.1107	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.021	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.023	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.021	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	*	0.00	0.000	0.019	0.1084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.019	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	*	0.00	0.000	0.019	0.1073	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	*	0.00	0.000	0.018	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.022	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.02	0.000	0.033	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.01	0.000	0.035	0.1051	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.026	0.1043	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.023	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.024	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.02	0.000	0.033	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.028	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.024	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.028	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.021	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.022	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.020	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.020	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.015	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.018	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.020	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.021	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.018	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.021	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.016	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.013	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.018	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.016	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.018	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.020	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.023	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.032	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.026	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.01	0.000	0.008	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.06	0.000	0.020	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.009	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.008	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.008	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.03	0.000	0.017	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.04	0.000	0.018	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.03	0.000	0.017	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.04	0.000	0.018	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.33	0.000	0.020	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.018	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.014	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.014	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.021	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.025	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.027	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.028	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.028	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.027	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.029	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.024	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.033	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.14	0.000	0.038	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.024	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.21	0.000	0.043	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.020	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.08	0.000	0.031	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.01	0.000	0.026	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.04	0.000	0.032	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.024	0.0990	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.35E-04
240	0.00	0.000	0.020	0.0985	0.0000	0.0000	5.65E-10	0.0000	0.0000	4.34E-04
241	0.00	0.000	0.020	0.0979	0.0000	0.0001	3.97E-09	0.0000	0.0000	4.33E-04
242	0.00	0.000	0.022	0.0973	0.0000	0.0000	9.40E-10	0.0000	0.0000	4.32E-04
243	0.00	0.000	0.022	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.026	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.021	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.18	0.000	0.039	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.24	0.000	0.042	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.11	0.000	0.033	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.014	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.016	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.019	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.023	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.017	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.05	0.000	0.033	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.017	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.017	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.014	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.04	0.000	0.030	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.12	0.000	0.034	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.018	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.011	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.011	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.013	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.014	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.012	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.013	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.014	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.39	0.000	0.031	0.1131	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.10	0.000	0.028	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.160	0.1108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.009	0.1105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.010	0.1102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.009	0.1100	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.009	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.007	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.009	0.1093	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.008	0.1091	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.008	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.008	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.24	0.000	0.025	0.1146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.111	0.1115	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.02	0.000	0.020	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.008	0.1113	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.007	0.1111	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.007	0.1109	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.007	0.1107	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.007	0.1105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.007	0.1103	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.007	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.007	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.007	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.007	0.1096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.007	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.006	0.1092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	*	0.00	0.000	0.006	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.006	0.1088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.006	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.006	0.1085	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.006	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.006	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.006	0.1080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.006	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.006	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.03	0.000	0.020	0.1079	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.006	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.006	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.006	0.1074	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.02	0.000	0.016	0.1074	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.08	0.000	0.024	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.02	0.000	0.016	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.58	0.000	0.024	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.16	0.000	0.098	0.1259	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.02	0.000	0.091	0.1238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.126	0.1204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.127	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.074	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.105	0.1118	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.093	0.1093	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.081	0.1070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.062	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.052	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.046	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.042	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.038	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.04	0.000	0.051	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.037	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.032	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.031	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.029	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.000	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.028	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.027	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.027	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.026	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.025	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.024	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.024	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.019	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.04	0.000	0.023	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.009	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 8			
	inches	cubic feet	percent
Precipitation	10.04	2,551,234.5	100.00
Runoff	0.099	25,272.5	0.99
Evapotranspiration	9.964	2,531,829.4	99.24
Drainage Collected from Layer 4	0.0001	13.9	0.00
Percolation/Leakage through Layer 6	0.000000	0.0043	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.002608	662.8	0.03
Change in Water Storage	-0.0258	-6,544.1	-0.26
Soil Water at Start of Year	1,027.5703	##########	10234.48
Soil Water at End of Year	1,027.5445	##########	10234.22
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 9

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.01	0.000	0.009	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.26	0.000	0.019	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.008	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.007	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.007	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.007	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.008	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.009	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.009	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.010	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.010	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.010	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.010	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.010	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.010	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.009	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.009	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.009	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.009	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.009	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.009	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.009	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.009	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.009	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.009	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.009	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.25	0.000	0.020	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.007	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.007	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.007	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.04	0.000	0.022	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.009	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.009	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.007	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.007	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.008	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.009	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.009	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.009	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.009	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.009	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.009	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	*	0.00	0.000	0.009	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.000	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.17	0.000	0.026	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.010	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.009	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.008	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.007	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.008	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.009	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.009	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.009	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.009	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.009	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.009	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.009	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.009	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.009	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.010	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.009	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.010	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.009	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.011	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.011	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.011	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.08	0.000	0.028	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.012	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.010	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.010	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.010	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.010	0.0925	0.0000	0.0000	1.09E-09	0.0000	0.0000	4.31E-04
117		0.00	0.000	0.009	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.010	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.009	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	*	0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	*	0.00	0.000	0.000	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.003	0.0906	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.30E-04
132		0.00	0.000	0.004	0.0905	0.0000	0.0000	3.17E-10	0.0000	0.0000	4.29E-04

133		0.00	0.000	0.004	0.0904	0.0000	0.0000	3.71E-09	0.0000	0.0000	4.28E-04
134		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.21	0.000	0.019	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.004	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.008	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.008	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.008	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.009	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.011	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.012	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.012	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.012	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.012	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.008	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.06	0.000	0.021	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.002	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.01	0.000	0.012	0.0921	0.0000	0.0000	2.83E-09	0.0000	0.0000	4.26E-04
208	0.00	0.000	0.003	0.0920	0.0000	0.0000	5.27E-10	0.0000	0.0000	4.25E-04
209	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.005	0.0916	0.0000	0.0000	1.70E-09	0.0000	0.0000	4.24E-04
213	0.00	0.000	0.005	0.0914	0.0000	0.0000	1.49E-09	0.0000	0.0000	4.23E-04
214	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.17	0.000	0.022	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.007	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.009	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.008	0.0945	0.0000	0.0000	3.66E-09	0.0000	0.0000	4.22E-04
222	0.00	0.000	0.009	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.009	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.010	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.013	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.013	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.013	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.015	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.012	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.08	0.000	0.022	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.01	0.000	0.007	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.55	0.000	0.026	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.098	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.013	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.19	0.000	0.030	0.1093	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.29	0.000	0.177	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.228	0.1061	0.0000	0.0000	2.02E-09	0.0000	0.0000	4.21E-04
239	0.00	0.000	0.282	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.141	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.092	0.0918	0.0000	0.0000	6.25E-10	0.0000	0.0000	4.20E-04
242	0.00	0.000	0.049	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.010	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.0900	0.0000	0.0001	3.66E-09	0.0000	0.0000	4.19E-04
245	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.18	0.000	0.020	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.005	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.51	0.000	0.027	0.1078	0.0000	0.0000	1.09E-09	0.0000	0.0000	4.18E-04
296		0.00	0.000	0.135	0.1041	0.0000	0.0000	1.11E-09	0.0000	0.0000	4.17E-04
297		0.00	0.000	0.012	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.012	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.011	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.011	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.011	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.011	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.011	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.011	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.011	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	*	0.00	0.000	0.011	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.011	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.011	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.011	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.011	0.0997	0.0000	0.0000	2.25E-09	0.0000	0.0000	4.16E-04
311		0.00	0.000	0.010	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.010	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.010	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.010	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.010	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.06	0.000	0.028	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.010	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.010	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.010	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.010	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.010	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.010	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.010	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.28	0.000	0.045	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.070	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.010	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.011	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.011	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.011	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.011	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.010	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.011	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.011	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.011	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.010	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.010	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.010	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.010	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.010	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.009	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.010	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.010	0.0970	0.0000	0.0000	3.20E-09	0.0000	0.0000	4.15E-04
344		0.03	0.000	0.025	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.12	0.000	0.028	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.02	0.000	0.020	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.010	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.20	0.000	0.028	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.010	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.009	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.009	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.009	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.009	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.009	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.009	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.009	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.009	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.000	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.009	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.009	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.009	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.009	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.009	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.008	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.008	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 9			
	inches	cubic feet	percent
Precipitation	3.79	963,818.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.440	874,147.5	90.70
Drainage Collected from Layer 4	0.0001	23.9	0.00
Percolation/Leakage through Layer 6	0.000000	0.0082	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.006765	1,718.9	0.18
Change in Water Storage	0.3460	87,927.8	9.12
Soil Water at Start of Year	1,027.5445	##########	27090.08
Soil Water at End of Year	1,027.8905	##########	27099.20
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 10

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.008	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.02	0.000	0.019	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.03	0.000	0.022	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.11	0.000	0.026	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.03	0.000	0.022	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.009	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.009	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.009	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.009	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.009	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.009	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.009	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.009	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.008	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.008	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.008	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.008	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.002	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.08	0.000	0.026	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.10	0.000	0.026	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.008	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.008	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.008	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.008	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.008	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.008	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.008	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.008	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.008	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.008	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.008	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.008	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.008	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.007	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.007	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.007	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.007	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.007	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.007	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.007	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.007	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.007	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.007	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.007	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.007	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.007	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.007	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.007	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.007	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.007	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.007	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.008	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.007	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*		0.00	0.000	0.007	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	*		0.00	0.000	0.007	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*		0.00	0.000	0.007	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*		0.00	0.000	0.000	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*		0.00	0.000	0.000	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68			0.00	0.000	0.007	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*		0.00	0.000	0.000	0.0955	0.0000	0.0000	3.40E-09	0.0000	0.0000	4.14E-04
70			0.00	0.000	0.007	0.0953	0.0000	0.0000	2.47E-09	0.0000	0.0000	4.13E-04
71	*		0.00	0.000	0.007	0.0951	0.0000	0.0000	2.31E-09	0.0000	0.0000	4.12E-04
72			0.00	0.000	0.007	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*		0.00	0.000	0.007	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74			0.00	0.000	0.007	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*		0.00	0.000	0.000	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*		0.00	0.000	0.007	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77			0.01	0.000	0.014	0.0942	0.0000	0.0000	3.76E-09	0.0000	0.0000	4.11E-04
78			0.01	0.000	0.015	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*		0.00	0.000	0.000	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*		0.04	0.000	0.037	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*		0.00	0.000	0.000	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82			0.00	0.000	0.007	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*		0.39	0.000	0.040	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	*		0.02	0.000	0.000	0.0949	0.0000	0.0000	1.96E-09	0.0000	0.0000	4.10E-04
85	*		0.00	0.000	0.054	0.0955	0.0000	0.0000	6.80E-09	0.0000	0.0000	4.09E-04
86	*		0.00	0.000	0.042	0.0960	0.0000	0.0000	6.80E-09	0.0000	0.0000	4.08E-04
87	*	*	0.00	0.000	0.047	0.0960	0.0000	0.0000	4.18E-10	0.0000	0.0000	4.07E-04
88	*	*	0.00	0.000	0.079	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	*	0.00	0.000	0.063	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	*	0.00	0.000	0.000	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	*	0.00	0.000	0.000	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		*	0.00	0.000	0.000	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93			0.00	0.000	0.007	0.0958	0.0000	0.0000	2.22E-09	0.0000	0.0000	4.06E-04
94			0.01	0.000	0.013	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95			0.02	0.000	0.019	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96			0.00	0.000	0.009	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97			0.00	0.000	0.009	0.0950	0.0000	0.0000	1.70E-09	0.0000	0.0000	4.05E-04

98		0.00	0.000	0.009	0.0948	0.0000	0.0000	1.68E-09	0.0000	0.0000	4.04E-04
99		0.00	0.000	0.008	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.008	0.0943	0.0000	0.0000	3.97E-09	0.0000	0.0000	4.03E-04
101		0.00	0.000	0.008	0.0941	0.0000	0.0000	3.74E-10	0.0000	0.0000	4.02E-04
102		0.00	0.000	0.008	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.008	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.009	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.008	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.06	0.000	0.027	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.01	0.000	0.016	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.010	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.02	0.000	0.022	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.012	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.19	0.000	0.030	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.13	0.000	0.030	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.010	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.007	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.007	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.007	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.008	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.008	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.009	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.009	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.009	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.009	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	*	0.00	0.000	0.008	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.009	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.010	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.009	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.010	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.011	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.013	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.013	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.014	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.012	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.011	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.010	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.010	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.011	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.011	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.012	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.013	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.015	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.015	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.015	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.013	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.015	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.014	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.02	0.000	0.015	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.01	0.000	0.009	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.001	0.0900	0.0000	0.0000	1.13E-10	0.0000	0.0000	4.01E-04
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.21	0.000	0.022	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.02	0.000	0.014	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.011	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.009	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.011	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.012	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.012	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.014	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.015	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.017	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.007	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.007	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.01	0.000	0.014	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.22	0.000	0.024	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.04	0.000	0.032	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.011	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.011	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.010	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.014	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.018	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.021	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.016	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.015	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.019	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.013	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.007	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.007	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.007	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.005	0.0905	0.0000	0.0000	2.79E-09	0.0000	0.0000	4.00E-04
229	0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.006	0.0902	0.0000	0.0000	3.67E-09	0.0000	0.0000	3.99E-04
231	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0900	0.0000	0.0000	9.13E-10	0.0000	0.0000	3.98E-04
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.18	0.000	0.024	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.29	0.000	0.068	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.128	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.198	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.043	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.015	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.13	0.000	0.024	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.003	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.009	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.007	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.006	0.0917	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.97E-04
284		0.00	0.000	0.005	0.0915	0.0000	0.0000	3.65E-10	0.0000	0.0000	3.96E-04
285		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.005	0.0910	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.95E-04
289		0.00	0.000	0.005	0.0908	0.0000	0.0000	5.61E-10	0.0000	0.0000	3.94E-04
290		0.11	0.000	0.025	0.0931	0.0000	0.0000	1.13E-09	0.0000	0.0000	3.94E-04
291		0.00	0.000	0.015	0.0927	0.0000	0.0000	1.07E-09	0.0000	0.0000	3.93E-04
292		0.00	0.000	0.010	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.013	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.006	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.004	0.0904	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.92E-04

308		0.00	0.000	0.004	0.0903	0.0000	0.0000	1.32E-10	0.0000	0.0000	3.91E-04
309		0.00	0.000	0.004	0.0902	0.0000	0.0000	2.75E-09	0.0000	0.0000	3.90E-04
310		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.002	0.0900	0.0000	0.0000	1.13E-09	0.0000	0.0000	3.89E-04
312		0.00	0.000	0.001	0.0900	0.0000	0.0000	9.54E-10	0.0000	0.0000	3.88E-04
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.43	0.000	0.023	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.035	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.033	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.071	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.042	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.076	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.077	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.050	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.012	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.05	0.000	0.023	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.23	0.000	0.024	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.061	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.081	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.97	0.004	0.042	0.1182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.23	0.000	0.047	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.03	0.000	0.056	0.1193	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.10	0.000	0.023	0.1199	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.01	0.000	0.015	0.1204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.027	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.034	0.1215	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.03	0.000	0.023	0.1220	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.068	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.000	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.034	0.1200	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.064	0.1182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.069	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 10			
	inches	cubic feet	percent
Precipitation	4.57	1,160,026.3	100.00
Runoff	0.004	966.5	0.08
Evapotranspiration	3.980	1,011,262.1	87.18
Drainage Collected from Layer 4	0.0000	8.1387	0.00
Percolation/Leakage through Layer 6	0.000000	0.0160	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.011220	2,851.0	0.25
Change in Water Storage	0.5704	144,938.7	12.49
Soil Water at Start of Year	1,027.8905	##########	22515.61
Soil Water at End of Year	1,028.4609	##########	22528.10
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 11

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.060	0.1146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.051	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.060	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.076	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.048	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.079	0.1059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.063	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.071	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.098	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.096	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.105	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.074	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.038	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.001	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.35	0.000	0.024	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.13	0.000	0.070	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.060	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.058	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.085	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.074	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.089	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.16	0.000	0.046	0.0940	0.0000	0.0000	1.39E-10	0.0000	0.0000	3.87E-04
42		0.00	0.000	0.018	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.031	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.30	0.000	0.049	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.023	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.080	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.044	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.052	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.049	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.039	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.020	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.017	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.12	0.000	0.024	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.003	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.009	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.41	0.000	0.027	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.07	0.000	0.137	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.17	0.000	0.101	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.15	0.000	0.074	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.03	0.000	0.123	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.04	0.000	0.195	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.152	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.13	0.000	0.116	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.031	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.027	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.018	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.018	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.014	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.014	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.012	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.001	0.0901	0.0000	0.0002	4.41E-09	0.0000	0.0000	3.86E-04
100	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.009	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.12	0.000	0.022	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.002	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.005	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.004	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0919	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.85E-04
207	0.00	0.000	0.003	0.0918	0.0000	0.0000	6.80E-10	0.0000	0.0000	3.84E-04
208	0.00	0.000	0.003	0.0917	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.84E-04
209	0.00	0.000	0.003	0.0916	0.0000	0.0000	5.16E-10	0.0000	0.0000	3.83E-04
210	0.00	0.000	0.003	0.0915	0.0000	0.0000	3.51E-09	0.0000	0.0000	3.82E-04
211	0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.0911	0.0000	0.0000	3.38E-09	0.0000	0.0000	3.81E-04
216	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.003	0.0905	0.0000	0.0000	1.38E-09	0.0000	0.0000	3.80E-04
223	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.001	0.0900	0.0000	0.0000	9.56E-10	0.0000	0.0000	3.79E-04
230	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.012	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.12	0.000	0.022	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.002	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.005	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.005	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.004	0.0920	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.78E-04
240	0.00	0.000	0.004	0.0919	0.0000	0.0000	3.36E-10	0.0000	0.0000	3.78E-04
241	0.00	0.000	0.003	0.0918	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.77E-04
242	0.00	0.000	0.003	0.0917	0.0000	0.0000	5.34E-10	0.0000	0.0000	3.76E-04
243	0.00	0.000	0.003	0.0916	0.0000	0.0000	2.27E-09	0.0000	0.0000	3.75E-04
244	0.00	0.000	0.004	0.0915	0.0000	0.0000	5.55E-10	0.0000	0.0000	3.74E-04
245	0.00	0.000	0.004	0.0914	0.0000	0.0000	3.39E-09	0.0000	0.0000	3.73E-04
246	0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.003	0.0904	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.72E-04
258	0.00	0.000	0.003	0.0903	0.0000	0.0000	4.68E-10	0.0000	0.0000	3.72E-04
259	0.00	0.000	0.003	0.0902	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.71E-04
260	0.00	0.000	0.003	0.0901	0.0000	0.0000	3.02E-10	0.0000	0.0000	3.70E-04
261	0.00	0.000	0.003	0.0901	0.0000	0.0000	2.77E-09	0.0000	0.0000	3.69E-04
262	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.68E-04
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.26E-10	0.0000	0.0000	3.68E-04
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.55E-09	0.0000	0.0000	3.67E-04
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.08	0.000	0.021	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.001	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.002	0.0912	0.0000	0.0000	1.70E-09	0.0000	0.0000	3.66E-04
283		0.00	0.000	0.002	0.0911	0.0000	0.0000	8.10E-10	0.0000	0.0000	3.65E-04
284		0.00	0.000	0.002	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.64E-04
285		0.00	0.000	0.002	0.0910	0.0000	0.0000	2.59E-10	0.0000	0.0000	3.63E-04
286		0.00	0.000	0.002	0.0909	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.63E-04
287		0.00	0.000	0.002	0.0909	0.0000	0.0000	1.54E-09	0.0000	0.0000	3.62E-04
288		0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.04	0.000	0.020	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.13	0.000	0.022	0.0941	0.0000	0.0000	2.12E-09	0.0000	0.0000	3.61E-04
294		0.07	0.000	0.021	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.09	0.000	0.070	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.062	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.067	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.025	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.026	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.017	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.016	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.002	0.0900	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.60E-04
304		0.00	0.000	0.000	0.0900	0.0000	0.0000	2.22E-09	0.0000	0.0000	3.60E-04
305		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.01	0.000	0.007	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.09	0.000	0.025	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.35	0.000	0.025	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.67	0.000	0.089	0.1171	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.081	0.1149	0.0000	0.0000	1.09E-09	0.0000	0.0000	3.59E-04
314		0.00	0.000	0.104	0.1120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.106	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.113	0.1059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.069	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.060	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.042	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.044	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.073	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.088	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.101	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.055	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.026	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	*	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.03	0.000	0.020	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.16	0.000	0.023	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.92	0.002	0.032	0.1186	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.056	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.134	0.1134	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.109	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.063	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.038	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.034	0.1067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.05	0.000	0.071	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.083	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.049	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.037	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.061	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 11			
	inches	cubic feet	percent
Precipitation	5.01	1,273,504.1	100.00
Runoff	0.002	564.0	0.04
Evapotranspiration	5.599	1,422,791.9	111.72
Drainage Collected from Layer 4	0.0002	57.9	0.00
Percolation/Leakage through Layer 6	0.000000	0.0163	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.013042	3,313.9	0.26
Change in Water Storage	-0.6030	-153,223.5	-12.03
Soil Water at Start of Year	1,028.4609	##########	20520.70
Soil Water at End of Year	1,027.8579	##########	20508.67
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 12

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.072	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.046	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.058	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.068	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.081	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.010	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.17	0.000	0.031	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.44	0.000	0.052	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.12	0.000	0.069	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.049	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.049	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.068	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.042	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.047	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.043	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.045	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.059	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.054	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.000	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.036	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.055	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.028	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.03	0.000	0.022	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.024	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.22	0.000	0.053	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*	0.00	0.000	0.059	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.056	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.011	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.010	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.010	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.009	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		1.22	0.031	0.038	0.1233	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.107	0.1204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.177	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.087	0.1130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.113	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.09	0.000	0.154	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.154	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.099	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.095	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.158	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.091	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.021	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.17	0.000	0.028	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.35	0.000	0.020	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.00	0.000	0.015	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.024	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.036	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.023	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	*	0.00	0.000	0.033	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.147	0.0962	0.0000	0.0000	1.56E-09	0.0000	0.0000	3.58E-04
66		0.00	0.000	0.048	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.031	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.035	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.014	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.013	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.011	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.010	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.009	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.009	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.009	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.009	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	*	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.01	0.000	0.009	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.03	0.000	0.017	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.05	0.000	0.020	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.06	0.000	0.022	0.0921	0.0000	0.0000	1.36E-09	0.0000	0.0000	3.57E-04
194	0.00	0.000	0.002	0.0920	0.0000	0.0000	2.28E-13	0.0000	0.0000	3.56E-04
195	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.003	0.0917	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.56E-04
199	0.00	0.000	0.003	0.0916	0.0000	0.0000	6.13E-10	0.0000	0.0000	3.55E-04
200	0.00	0.000	0.003	0.0915	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.54E-04
201	0.00	0.000	0.003	0.0914	0.0000	0.0000	3.46E-10	0.0000	0.0000	3.53E-04
202	0.00	0.000	0.003	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.53E-04

203	0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.02	0.000	0.016	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.03	0.000	0.017	0.0917	0.0000	0.0000	2.14E-09	0.0000	0.0000	3.52E-04
206	0.02	0.000	0.013	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.003	0.0914	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.51E-04
212	0.00	0.000	0.003	0.0913	0.0000	0.0000	4.37E-10	0.0000	0.0000	3.50E-04
213	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.0910	0.0000	0.0000	3.48E-09	0.0000	0.0000	3.50E-04
217	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.03	0.000	0.018	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.0909	0.0000	0.0000	1.31E-09	0.0000	0.0000	3.49E-04
222	0.00	0.000	0.003	0.0909	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.48E-04
223	0.00	0.000	0.003	0.0908	0.0000	0.0000	1.03E-10	0.0000	0.0000	3.47E-04
224	0.00	0.000	0.003	0.0907	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.47E-04
225	0.00	0.000	0.003	0.0906	0.0000	0.0000	1.68E-09	0.0000	0.0000	3.46E-04
226	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.003	0.0903	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.45E-04
230	0.00	0.000	0.003	0.0902	0.0000	0.0000	2.20E-10	0.0000	0.0000	3.45E-04
231	0.00	0.000	0.003	0.0901	0.0000	0.0000	3.39E-09	0.0000	0.0000	3.44E-04
232	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	1.09E-09	0.0000	0.0000	3.43E-04
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.01	0.000	0.009	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.05	0.000	0.020	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.01	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.002	0.0905	0.0000	0.0000	4.40E-09	0.0000	0.0000	3.42E-04
276		0.00	0.000	0.002	0.0904	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.42E-04
277		0.00	0.000	0.002	0.0903	0.0000	0.0000	1.03E-09	0.0000	0.0000	3.41E-04
278		0.00	0.000	0.002	0.0903	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.40E-04
279		1.15	0.021	0.026	0.1210	0.0000	0.0000	5.59E-11	0.0000	0.0000	3.40E-04
280		0.00	0.000	0.203	0.1154	0.0000	0.0000	3.94E-09	0.0000	0.0000	3.39E-04
281		0.00	0.000	0.160	0.1110	0.0000	0.0000	6.79E-10	0.0000	0.0000	3.38E-04
282		0.00	0.000	0.165	0.1064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.114	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.01	0.000	0.073	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.01	0.000	0.111	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.02	0.000	0.074	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.084	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.078	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.073	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.15	0.000	0.024	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.003	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.013	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.009	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.009	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.007	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.0920	0.0000	0.0000	6.24E-09	0.0000	0.0000	3.38E-04
324	*	0.00	0.000	0.006	0.0918	0.0000	0.0000	1.06E-09	0.0000	0.0000	3.37E-04
325		0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	6.24E-09	0.0000	0.0000	3.36E-04
336		0.00	0.000	0.005	0.0903	0.0000	0.0000	1.09E-09	0.0000	0.0000	3.35E-04
337		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.02	0.000	0.015	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	3.33E-09	0.0000	0.0000	3.35E-04
344	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	3.33E-09	0.0000	0.0000	3.34E-04
345	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	3.33E-09	0.0000	0.0000	3.33E-04
346	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	3.33E-09	0.0000	0.0000	3.33E-04
347		0.00	0.000	0.001	0.0902	0.0000	0.0000	2.28E-13	0.0000	0.0000	3.32E-04
348		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 12			
	inches	cubic feet	percent
Precipitation	4.52	1,148,671.4	100.00
Runoff	0.052	13,253.1	1.15
Evapotranspiration	4.819	1,224,632.3	106.61
Drainage Collected from Layer 4	0.0000	2.0387	0.00
Percolation/Leakage through Layer 6	0.000000	0.0198	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.012756	3,241.3	0.28
Change in Water Storage	-0.3639	-92,457.4	-8.05
Soil Water at Start of Year	1,027.8579	##########	22737.46
Soil Water at End of Year	1,027.4941	##########	22729.41
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 13

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.17	0.000	0.082	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.074	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.09	0.000	0.023	0.0927	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.31E-04
44		0.12	0.000	0.023	0.0953	0.0000	0.0000	3.71E-11	0.0000	0.0000	3.31E-04
45		0.06	0.000	0.026	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.63	0.000	0.070	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.107	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.084	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.097	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.28	0.000	0.111	0.1085	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.04	0.000	0.102	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.38	0.000	0.143	0.1135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.15	0.000	0.116	0.1146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.072	0.1126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.091	0.1100	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.092	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.127	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.121	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.132	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.054	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.115	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.051	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.000	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.006	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.04	0.000	0.024	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.007	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.002	0.0901	0.0000	0.0001	1.14E-09	0.0000	0.0000	3.30E-04
78		0.00	0.000	0.003	0.0901	0.0000	0.0000	3.15E-09	0.0000	0.0000	3.29E-04
79		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	*	0.04	0.000	0.038	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.06	0.000	0.023	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.32	0.000	0.024	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.142	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.017	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.03	0.000	0.033	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.23	0.000	0.039	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.154	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.149	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.040	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.017	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.000	0.0900	0.0000	0.0000	1.09E-09	0.0000	0.0000	3.29E-04
110	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.04	0.000	0.021	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.14	0.000	0.024	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.006	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.014	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.016	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.009	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.006	0.0918	0.0000	0.0000	1.70E-09	0.0000	0.0000	3.28E-04
135	0.00	0.000	0.006	0.0916	0.0000	0.0000	1.92E-09	0.0000	0.0000	3.27E-04
136	0.00	0.000	0.006	0.0914	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.27E-04
137	0.00	0.000	0.006	0.0912	0.0000	0.0000	2.74E-10	0.0000	0.0000	3.26E-04
138	0.09	0.000	0.026	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.008	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.008	0.0924	0.0000	0.0000	3.70E-09	0.0000	0.0000	3.26E-04
142	0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.006	0.0920	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.25E-04
144	0.00	0.000	0.006	0.0919	0.0000	0.0000	2.73E-10	0.0000	0.0000	3.24E-04
145	0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.03	0.000	0.021	0.0918	0.0000	0.0000	1.75E-09	0.0000	0.0000	3.24E-04
148	0.00	0.000	0.003	0.0917	0.0000	0.0000	2.81E-09	0.0000	0.0000	3.23E-04
149	0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.005	0.0914	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.22E-04
151	0.00	0.000	0.005	0.0913	0.0000	0.0000	4.60E-10	0.0000	0.0000	3.22E-04
152	0.00	0.000	0.005	0.0911	0.0000	0.0000	2.84E-09	0.0000	0.0000	3.21E-04
153	0.00	0.000	0.005	0.0910	0.0000	0.0000	9.59E-10	0.0000	0.0000	3.20E-04
154	0.00	0.000	0.005	0.0908	0.0000	0.0000	3.91E-09	0.0000	0.0000	3.20E-04
155	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.39E-09	0.0000	0.0000	3.19E-04
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.16	0.000	0.023	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.01	0.000	0.012	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.009	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.008	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.010	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.012	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.008	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.007	0.0919	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.19E-04
216	0.02	0.000	0.018	0.0920	0.0000	0.0000	2.26E-09	0.0000	0.0000	3.18E-04
217	0.31	0.000	0.024	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.137	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.160	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.02	0.000	0.027	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.015	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.017	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.009	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.0900	0.0000	0.0000	3.84E-09	0.0000	0.0000	3.17E-04
231	0.13	0.000	0.024	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.002	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.005	0.0919	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.17E-04
239	0.00	0.000	0.005	0.0918	0.0000	0.0000	4.56E-10	0.0000	0.0000	3.16E-04
240	0.00	0.000	0.005	0.0916	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.16E-04
241	0.00	0.000	0.004	0.0915	0.0000	0.0000	4.27E-11	0.0000	0.0000	3.15E-04
242	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.005	0.0909	0.0000	0.0000	3.87E-09	0.0000	0.0000	3.14E-04
247	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.004	0.0902	0.0000	0.0000	3.40E-09	0.0000	0.0000	3.14E-04
253	0.00	0.000	0.003	0.0901	0.0000	0.0000	2.23E-10	0.0000	0.0000	3.13E-04
254	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.13E-04
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.08E-10	0.0000	0.0000	3.12E-04
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.16	0.000	0.024	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.01	0.000	0.009	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.006	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.006	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.006	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.006	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.008	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.008	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.008	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.003	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.004	0.0920	0.0000	0.0000	5.67E-10	0.0000	0.0000	3.11E-04
278		0.00	0.000	0.003	0.0919	0.0000	0.0000	1.09E-09	0.0000	0.0000	3.11E-04
279		0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.01	0.000	0.011	0.0917	0.0000	0.0000	3.84E-09	0.0000	0.0000	3.10E-04
283		0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.003	0.0914	0.0000	0.0000	2.83E-09	0.0000	0.0000	3.10E-04
287		0.00	0.000	0.002	0.0914	0.0000	0.0000	2.91E-09	0.0000	0.0000	3.09E-04
288		0.00	0.000	0.002	0.0913	0.0000	0.0000	1.43E-10	0.0000	0.0000	3.08E-04
289		0.00	0.000	0.002	0.0912	0.0000	0.0000	3.74E-09	0.0000	0.0000	3.08E-04
290		0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.004	0.0909	0.0000	0.0000	1.70E-09	0.0000	0.0000	3.07E-04
295		0.01	0.000	0.012	0.0910	0.0000	0.0000	5.05E-10	0.0000	0.0000	3.07E-04
296	*	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.0907	0.0000	0.0000	4.44E-09	0.0000	0.0000	3.06E-04
300		0.00	0.000	0.002	0.0907	0.0000	0.0000	3.64E-09	0.0000	0.0000	3.06E-04
301		0.00	0.000	0.002	0.0906	0.0000	0.0000	1.00E-09	0.0000	0.0000	3.05E-04
302		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.002	0.0905	0.0000	0.0000	1.07E-09	0.0000	0.0000	3.04E-04
304		0.00	0.000	0.002	0.0905	0.0000	0.0000	2.85E-09	0.0000	0.0000	3.04E-04
305		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.002	0.0903	0.0000	0.0000	3.97E-09	0.0000	0.0000	3.03E-04
307		0.00	0.000	0.002	0.0903	0.0000	0.0000	3.64E-09	0.0000	0.0000	3.03E-04

308		0.00	0.000	0.002	0.0902	0.0000	0.0000	3.04E-09	0.0000	0.0000	3.02E-04
309		0.00	0.000	0.002	0.0902	0.0000	0.0000	2.30E-10	0.0000	0.0000	3.02E-04
310		0.00	0.000	0.002	0.0901	0.0000	0.0000	4.57E-09	0.0000	0.0000	3.01E-04
311		0.01	0.000	0.011	0.0901	0.0000	0.0000	4.30E-09	0.0000	0.0000	3.00E-04
312		0.57	0.000	0.027	0.1052	0.0000	0.0000	7.40E-10	0.0000	0.0000	3.00E-04
313		0.61	0.000	0.053	0.1207	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.01	0.000	0.054	0.1194	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.068	0.1175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.062	0.1158	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.120	0.1125	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.066	0.1106	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.072	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.047	0.1074	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.062	0.1056	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.076	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.052	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	*	0.00	0.000	0.000	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.051	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.077	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.066	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.041	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.047	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.22	0.000	0.036	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.027	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.025	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.035	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.054	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.00	0.000	0.000	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.049	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.043	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.025	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*		0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*		0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*		0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*		0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	*	0.07	0.000	0.034	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	*	0.03	0.000	0.036	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		*	0.00	0.000	0.030	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350			0.00	0.000	0.036	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351			0.00	0.000	0.018	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352			0.00	0.000	0.007	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353			0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359			0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 13			
	inches	cubic feet	percent
Precipitation	5.35	1,360,272.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.349	1,359,276.2	99.93
Drainage Collected from Layer 4	0.0002	46.9	0.00
Percolation/Leakage through Layer 6	0.000000	0.0306	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.016706	4,244.9	0.31
Change in Water Storage	-0.0130	-3,296.0	-0.24
Soil Water at Start of Year	1,027.4941	##########	19193.68
Soil Water at End of Year	1,027.4811	##########	19193.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 14

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.12	0.000	0.024	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.21	0.000	0.024	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.03	0.000	0.078	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.01	0.000	0.070	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.065	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.12	0.000	0.069	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.65	0.000	0.038	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.023	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.028	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.039	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.085	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.059	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.059	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.1037	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.99E-04
46	*	0.00	0.000	0.000	0.1037	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.99E-04
47	*	0.00	0.000	0.035	0.1027	0.0000	0.0000	1.06E-09	0.0000	0.0000	2.98E-04
48		0.00	0.000	0.052	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.068	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.064	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.041	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.061	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.078	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.057	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.15	0.000	0.052	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.01	0.000	0.017	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.13	0.000	0.045	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.042	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.08	0.000	0.054	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.06	0.000	0.052	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.01	0.000	0.038	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.025	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.028	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.017	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.00	0.000	0.013	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.010	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.009	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.98E-04
69	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.97E-04
70	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.97E-04
71		0.00	0.000	0.009	0.0916	0.0000	0.0000	1.05E-09	0.0000	0.0000	2.96E-04
72		0.20	0.000	0.030	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.042	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.017	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.03	0.000	0.050	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.24	0.000	0.043	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.01	0.000	0.049	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.035	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.046	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.070	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.01	0.000	0.054	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.059	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.025	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.0900	0.0000	0.0002	4.35E-09	0.0000	0.0000	2.96E-04
97		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.15	0.000	0.025	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.003	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.014	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.013	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.008	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.006	0.0914	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.95E-04
114	0.00	0.000	0.006	0.0912	0.0000	0.0000	8.64E-10	0.0000	0.0000	2.95E-04
115	0.00	0.000	0.006	0.0911	0.0000	0.0000	3.95E-09	0.0000	0.0000	2.94E-04
116	0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.06	0.000	0.025	0.0918	0.0000	0.0000	3.70E-09	0.0000	0.0000	2.93E-04
118	0.02	0.000	0.016	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.005	0.0905	0.0000	0.0000	3.56E-09	0.0000	0.0000	2.93E-04
129	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.003	0.0900	0.0000	0.0000	2.08E-09	0.0000	0.0000	2.92E-04

133	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.02	0.000	0.015	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.07	0.000	0.023	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.0907	0.0000	0.0000	2.10E-09	0.0000	0.0000	2.92E-04
161	0.00	0.000	0.004	0.0905	0.0000	0.0000	4.96E-10	0.0000	0.0000	2.91E-04
162	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.004	0.0901	0.0000	0.0000	3.47E-09	0.0000	0.0000	2.91E-04
166	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.01	0.000	0.013	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.31	0.000	0.024	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.07	0.000	0.137	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.01	0.000	0.094	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.014	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.013	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.015	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.014	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.011	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.14	0.000	0.026	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.005	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.008	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.08	0.000	0.030	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.13	0.000	0.093	0.0968	0.0000	0.0000	1.58E-09	0.0000	0.0000	2.90E-04
195	0.14	0.000	0.132	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.02	0.000	0.132	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.03	0.000	0.028	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.04	0.000	0.032	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.018	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.016	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.020	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.010	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.90E-04
212	0.00	0.000	0.004	0.0912	0.0000	0.0000	2.89E-10	0.0000	0.0000	2.89E-04
213	0.00	0.000	0.004	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.89E-04
214	0.00	0.000	0.004	0.0910	0.0000	0.0000	3.63E-10	0.0000	0.0000	2.88E-04
215	0.00	0.000	0.004	0.0909	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.88E-04
216	0.00	0.000	0.004	0.0908	0.0000	0.0000	1.21E-10	0.0000	0.0000	2.87E-04
217	0.00	0.000	0.004	0.0907	0.0000	0.0000	1.70E-09	0.0000	0.0000	2.87E-04
218	0.12	0.000	0.026	0.0933	0.0000	0.0000	1.04E-09	0.0000	0.0000	2.86E-04
219	1.03	0.009	0.032	0.1206	0.0000	0.0000	2.74E-09	0.0000	0.0000	2.86E-04
220	0.16	0.000	0.196	0.1196	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.85E-04
221	0.00	0.000	0.248	0.1127	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.85E-04
222	0.00	0.000	0.207	0.1070	0.0000	0.0000	2.45E-10	0.0000	0.0000	2.84E-04
223	0.00	0.000	0.169	0.1023	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.84E-04
224	0.00	0.000	0.176	0.0974	0.0000	0.0000	2.71E-10	0.0000	0.0000	2.83E-04
225	0.00	0.000	0.185	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.053	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.15	0.000	0.047	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.25	0.000	0.039	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.138	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.056	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.054	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.043	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.024	0.0914	0.0000	0.0000	1.13E-09	0.0000	0.0000	2.83E-04
234	0.00	0.000	0.015	0.0910	0.0000	0.0000	2.11E-09	0.0000	0.0000	2.82E-04
235	0.00	0.000	0.013	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.012	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.22	0.000	0.025	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.26	0.000	0.031	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.01	0.000	0.068	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.102	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.139	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.100	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.017	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.15	0.000	0.032	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.04	0.000	0.027	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.01	0.000	0.017	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.20	0.000	0.044	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.083	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.034	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.031	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.029	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.026	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.018	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.011	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.009	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.008	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.007	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.007	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	*	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.24	0.000	0.040	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.084	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.002	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.000	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.008	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	1.31	0.000	0.013	0.0934	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.82E-04
354	*	0.00	0.000	0.020	0.0939	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.81E-04
355	*	0.00	0.000	0.039	0.0945	0.0000	0.0000	2.79E-09	0.0000	0.0000	2.81E-04
356	*	0.01	0.000	0.000	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.023	0.000	0.1267	0.0000	0.0000	1.64E-09	0.0000	0.0000	2.80E-04
358		0.14	0.000	0.044	0.1293	0.0000	0.0000	1.70E-09	0.0000	0.0000	2.80E-04
359	*	0.00	0.000	0.028	0.1286	0.0000	0.0000	2.75E-09	0.0000	0.0000	2.79E-04
360		0.00	0.000	0.041	0.1275	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.00	0.000	0.027	0.1267	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.050	0.1253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.04	0.000	0.068	0.1244	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.07	0.000	0.059	0.1247	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.055	0.1232	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 14			
	inches	cubic feet	percent
Precipitation	7.79	1,979,865.3	100.00
Runoff	0.032	8,169.6	0.41
Evapotranspiration	6.574	1,670,554.0	84.38
Drainage Collected from Layer 4	0.0002	51.2	0.00
Percolation/Leakage through Layer 6	0.000000	0.0273	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.011566	2,938.9	0.15
Change in Water Storage	1.1734	298,151.6	15.06
Soil Water at Start of Year	1,027.4811	##########	13186.90
Soil Water at End of Year	1,028.6545	##########	13201.96
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 15

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6 Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.054	0.1217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.069	0.1197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.093	0.1172	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.062	0.1154	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.040	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.08	0.000	0.065	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.057	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.048	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.19	0.000	0.042	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.60	0.000	0.037	0.1130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.041	0.1135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.046	0.1141	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.035	0.1283	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.083	0.1260	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.055	0.1245	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.1245	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.1245	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.038	0.1234	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.043	0.1222	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.22	0.000	0.090	0.1258	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.071	0.1238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.16	0.000	0.071	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.112	0.1231	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.077	0.1209	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.066	0.1191	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.19	0.000	0.053	0.1197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.110	0.1199	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.14	0.000	0.087	0.1214	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.08	0.000	0.083	0.1213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.45	0.000	0.100	0.1311	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.53	0.000	0.082	0.1435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.080	0.1413	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.090	0.1388	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.110	0.1358	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.113	0.1326	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.133	0.1289	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.103	0.1261	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.133	0.1224	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.081	0.1201	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.066	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.100	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.105	0.1126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.107	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.09	0.000	0.159	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.082	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.063	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.053	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.047	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.043	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.040	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.037	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.034	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.033	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.032	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.031	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.030	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.023	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.012	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.008	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.007	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.001	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	*	0.18	0.000	0.057	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.104	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.007	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.15	0.000	0.027	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.004	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.012	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.05	0.000	0.029	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.005	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.011	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.013	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.010	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.011	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.007	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.007	0.0922	0.0000	0.0002	3.98E-09	0.0000	0.0000	2.79E-04
93		0.04	0.000	0.025	0.0925	0.0000	0.0000	1.31E-09	0.0000	0.0000	2.78E-04
94		0.00	0.000	0.006	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.009	0.0921	0.0001	0.0007	4.00E-09	0.0000	0.0000	2.78E-04
96		0.00	0.000	0.007	0.0919	0.0000	0.0002	3.92E-09	0.0000	0.0000	2.77E-04
97		0.00	0.000	0.006	0.0917	0.0000	0.0002	2.85E-09	0.0000	0.0000	2.77E-04

98		0.00	0.000	0.005	0.0916	0.0000	0.0000	2.06E-09	0.0000	0.0000	2.76E-04
99		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.005	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.76E-04
101		0.00	0.000	0.005	0.0912	0.0000	0.0000	5.05E-10	0.0000	0.0000	2.76E-04
102		0.00	0.000	0.005	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.75E-04
103		0.13	0.000	0.027	0.0939	0.0000	0.0000	3.31E-10	0.0000	0.0000	2.75E-04
104	*	0.00	0.000	0.003	0.0939	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.74E-04
105	*	0.00	0.000	0.000	0.0939	0.0000	0.0000	2.98E-11	0.0000	0.0000	2.74E-04
106		0.00	0.000	0.010	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.011	0.0933	0.0000	0.0000	3.78E-09	0.0000	0.0000	2.73E-04
108		0.00	0.000	0.012	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.013	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.011	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	*	0.00	0.000	0.000	0.0915	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.73E-04
118		0.00	0.000	0.004	0.0914	0.0000	0.0000	3.94E-09	0.0000	0.0000	2.72E-04
119		0.00	0.000	0.004	0.0912	0.0000	0.0000	4.04E-10	0.0000	0.0000	2.72E-04
120		0.00	0.000	0.004	0.0911	0.0000	0.0000	3.88E-09	0.0000	0.0000	2.71E-04
121		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.08	0.000	0.025	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.005	0.0903	0.0000	0.0000	1.41E-09	0.0000	0.0000	2.71E-04
148		0.00	0.000	0.005	0.0902	0.0000	0.0000	3.73E-09	0.0000	0.0000	2.70E-04
149		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.22	0.000	0.025	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.006	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.009	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.009	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.008	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.009	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.011	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.013	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.012	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.011	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.014	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.014	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.011	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.89	0.001	0.034	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.148	0.1106	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.192	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.209	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.137	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.096	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.079	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.023	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.08	0.000	0.029	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.011	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.010	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.010	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.04	0.000	0.027	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.01	0.000	0.018	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.14	0.000	0.030	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.005	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.014	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.010	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.010	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.009	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.34	0.000	0.033	0.1004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.017	0.0999	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.70E-04
259	0.00	0.000	0.019	0.0993	0.0000	0.0000	1.11E-09	0.0000	0.0000	2.70E-04
260	0.00	0.000	0.020	0.0988	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.69E-04
261	0.00	0.000	0.025	0.0981	0.0000	0.0000	4.78E-10	0.0000	0.0000	2.69E-04
262	0.00	0.000	0.028	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.023	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.021	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.022	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.022	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.022	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.021	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.14	0.000	0.044	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.023	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.024	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.018	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.018	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.017	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.015	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.015	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.015	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.005	0.0908	0.0000	0.0000	3.70E-09	0.0000	0.0000	2.68E-04
286		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.0900	0.0000	0.0000	3.48E-09	0.0000	0.0000	2.68E-04
293		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.11	0.000	0.026	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.11	0.000	0.026	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	*	0.00	0.000	0.006	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.008	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.008	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.008	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.009	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.010	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.010	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.011	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.011	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.011	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.011	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.45	0.000	0.035	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.023	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.021	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.034	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.043	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.069	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.045	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.056	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.048	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.042	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.033	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.038	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.025	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.02	0.000	0.019	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.22	0.000	0.026	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.063	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.004	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.013	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.011	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.007	0.0922	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.67E-04

343		0.00	0.000	0.008	0.0920	0.0000	0.0000	5.57E-09	0.0000	0.0000	2.67E-04
344		0.00	0.000	0.007	0.0918	0.0000	0.0000	2.86E-09	0.0000	0.0000	2.66E-04
345	*	0.00	0.000	0.006	0.0916	0.0000	0.0000	1.37E-09	0.0000	0.0000	2.66E-04
346	*	0.00	0.000	0.000	0.0916	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.66E-04
347		0.00	0.000	0.006	0.0915	0.0000	0.0000	2.24E-09	0.0000	0.0000	2.65E-04
348		0.00	0.000	0.006	0.0913	0.0000	0.0000	1.65E-09	0.0000	0.0000	2.65E-04
349		0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.04	0.000	0.024	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 15			
	inches	cubic feet	percent
Precipitation	6.16	1,565,787.1	100.00
Runoff	0.001	131.5	0.01
Evapotranspiration	7.355	1,868,805.5	119.35
Drainage Collected from Layer 4	0.0014	366.2	0.02
Percolation/Leakage through Layer 6	0.000000	0.0225	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.008694	2,209.1	0.14
Change in Water Storage	-1.2032	-305,725.3	-19.53
Soil Water at Start of Year	1,028.6545	##########	16693.27
Soil Water at End of Year	1,027.4513	##########	16673.75
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 16

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.10	0.000	0.050	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.031	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.001	0.0900	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.64E-04
19			0.00	0.000	0.001	0.0900	0.0000	0.0000	7.90E-10	0.0000	0.0000	2.64E-04
20			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.03	0.000	0.031	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.04	0.000	0.022	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34			0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*		0.04	0.000	0.035	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		*	0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48			0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50			0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51			0.00	0.000	0.002	0.0900	0.0000	0.0000	5.65E-10	0.0000	0.0000	2.63E-04
52			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.03	0.000	0.020	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.01	0.000	0.013	0.0904	0.0000	0.0000	1.43E-09	0.0000	0.0000	2.63E-04
88		0.59	0.000	0.031	0.1058	0.0000	0.0000	2.28E-13	0.0000	0.0000	2.63E-04
89		0.00	0.000	0.137	0.1020	0.0000	0.0000	1.09E-09	0.0000	0.0000	2.62E-04
90		0.00	0.000	0.169	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.009	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.009	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.02	0.000	0.022	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.012	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.02	0.000	0.023	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.04	0.000	0.028	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.09	0.000	0.032	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.009	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.04	0.000	0.030	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.02	0.000	0.022	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.010	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.011	0.0978	0.0000	0.0000	2.64E-09	0.0000	0.0000	2.62E-04
103		0.00	0.000	0.010	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.010	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.010	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.011	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.010	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.011	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.011	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.009	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.009	0.0953	0.0000	0.0000	2.91E-09	0.0000	0.0000	2.61E-04
112		0.00	0.000	0.009	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.009	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.009	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.009	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.009	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.009	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.010	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.010	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.009	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.009	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.010	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.012	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.012	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.013	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.014	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.014	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.008	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.04	0.000	0.022	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.03	0.000	0.020	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.09	0.000	0.026	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.004	0.0903	0.0000	0.0000	3.74E-09	0.0000	0.0000	2.61E-04
170	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.04	0.000	0.023	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.13	0.000	0.027	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.002	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.010	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.010	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.005	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.0917	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.60E-04
201	0.00	0.000	0.004	0.0916	0.0000	0.0000	6.29E-10	0.0000	0.0000	2.60E-04
202	0.00	0.000	0.004	0.0915	0.0000	0.0000	3.89E-09	0.0000	0.0000	2.60E-04

203	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.03	0.000	0.021	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.002	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.34	0.000	0.028	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	1.14	0.025	0.096	0.1270	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.104	0.1241	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.145	0.1201	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.191	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.220	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.138	0.1048	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.147	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.198	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.128	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.031	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.019	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.011	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.14	0.000	0.033	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.007	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.017	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.014	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.012	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.011	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.011	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.011	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.02	0.000	0.017	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.03	0.000	0.020	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.08	0.000	0.027	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.01	0.000	0.009	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.31	0.000	0.029	0.0994	0.0000	0.0000	1.89E-09	0.0000	0.0000	2.59E-04
299	0.00	0.000	0.056	0.0979	0.0000	0.0000	2.28E-13	0.0000	0.0000	2.59E-04
300	0.00	0.000	0.065	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.097	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.087	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.027	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.005	0.0901	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.58E-04
305	0.00	0.000	0.002	0.0901	0.0000	0.0000	1.45E-09	0.0000	0.0000	2.58E-04
306	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.37E-09	0.0000	0.0000	2.58E-04
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.02	0.000	0.016	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.04	0.000	0.023	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.06	0.000	0.025	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.01	0.000	0.021	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.0911	0.0000	0.0000	3.30E-09	0.0000	0.0000	2.57E-04
333	*	0.00	0.000	0.000	0.0911	0.0000	0.0000	5.65E-09	0.0000	0.0000	2.57E-04
334		0.00	0.000	0.006	0.0909	0.0000	0.0000	3.13E-09	0.0000	0.0000	2.56E-04
335		0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.06	0.000	0.055	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.04	0.000	0.025	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.005	0.0910	0.0000	0.0000	3.92E-09	0.0000	0.0000	2.56E-04
341		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.005	0.0907	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.55E-04

343		0.00	0.000	0.005	0.0906	0.0000	0.0000	1.89E-09	0.0000	0.0000	2.55E-04
344		0.00	0.000	0.005	0.0905	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.55E-04
345		0.00	0.000	0.005	0.0903	0.0000	0.0000	2.62E-11	0.0000	0.0000	2.54E-04
346	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.54E-04
347	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.53E-04
348	*	0.00	0.000	0.005	0.0902	0.0000	0.0000	1.11E-09	0.0000	0.0000	2.53E-04
349	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.03	0.000	0.020	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.15	0.000	0.028	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.26	0.000	0.028	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.70	0.000	0.058	0.1176	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.074	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.070	0.1136	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.073	0.1115	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.072	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.044	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 16			
	inches	cubic feet	percent
Precipitation	4.90	1,244,713.7	100.00
Runoff	0.025	6,254.4	0.50
Evapotranspiration	4.215	1,070,950.7	86.04
Drainage Collected from Layer 4	0.0001	13.2	0.00
Percolation/Leakage through Layer 6	0.000000	0.0162	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.007241	1,840.0	0.15
Change in Water Storage	0.6519	165,655.5	13.31
Soil Water at Start of Year	1,027.4513	##########	20974.73
Soil Water at End of Year	1,028.1032	##########	20988.04
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 17

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.059	0.1067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.072	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.074	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.050	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.044	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.02	0.000	0.051	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.038	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.052	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.043	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.057	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.067	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.048	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.22	0.000	0.033	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.84	0.000	0.048	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.79	0.000	0.043	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.058	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.100	0.000	0.1336	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.100	0.1308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.060	0.1292	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.034	0.1282	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*	0.00	0.000	0.000	0.1282	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.000	0.1282	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.10	0.000	0.021	0.1288	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.04	0.000	0.023	0.1293	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.06	0.000	0.027	0.1298	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.01	0.000	0.080	0.1296	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.36	0.000	0.076	0.1374	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.36	0.000	0.088	0.1450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.26	0.000	0.076	0.1501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.074	0.1481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.01	0.000	0.095	0.1457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.086	0.1434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.121	0.1400	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.078	0.1378	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.07	0.000	0.071	0.1378	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.22	0.000	0.083	0.1417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.134	0.1379	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.110	0.1349	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.141	0.1310	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.158	0.1267	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.165	0.1221	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.199	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.143	0.1126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.17	0.000	0.134	0.1137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.082	0.1114	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.064	0.1096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.054	0.1081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.048	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.044	0.1056	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.039	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.037	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.035	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.031	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.031	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.030	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.029	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.028	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.027	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.027	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.027	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.01	0.000	0.036	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.024	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.023	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.05	0.000	0.075	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.00	0.000	0.011	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.009	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.006	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.002	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.002	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.002	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.004	0.0905	0.0001	0.0006	6.27E-09	0.0000	0.0000	2.53E-04
104		0.00	0.000	0.003	0.0904	0.0000	0.0000	6.76E-10	0.0000	0.0000	2.52E-04
105		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	*	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.03	0.000	0.020	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.13	0.000	0.028	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.002	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.007	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.006	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.005	0.0918	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.52E-04
130		0.00	0.000	0.004	0.0917	0.0000	0.0000	9.47E-10	0.0000	0.0000	2.51E-04
131		0.00	0.000	0.004	0.0915	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.51E-04
132		0.00	0.000	0.004	0.0914	0.0000	0.0000	4.97E-10	0.0000	0.0000	2.51E-04

133	0.00	0.000	0.004	0.0913	0.0000	0.0000	1.70E-09	0.0000	0.0000	2.50E-04
134	0.00	0.000	0.004	0.0912	0.0000	0.0000	1.10E-09	0.0000	0.0000	2.50E-04
135	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.0901	0.0000	0.0000	3.72E-09	0.0000	0.0000	2.50E-04
144	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.001	0.0900	0.0000	0.0000	1.71E-09	0.0000	0.0000	2.49E-04
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	8.78E-10	0.0000	0.0000	2.49E-04
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.02	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.01	0.000	0.010	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191		0.17	0.000	0.028	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192		0.07	0.000	0.026	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193		0.00	0.000	0.012	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194		0.00	0.000	0.008	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195		0.00	0.000	0.008	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196		0.00	0.000	0.008	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197		0.00	0.000	0.008	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199		0.00	0.000	0.011	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200		0.00	0.000	0.011	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201		0.01	0.000	0.018	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202		0.03	0.000	0.033	0.0929	0.0000	0.0000	1.09E-09	0.0000	0.0000	2.48E-04

203	0.00	0.000	0.014	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.009	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.005	0.0913	0.0000	0.0000	1.70E-09	0.0000	0.0000	2.48E-04
212	0.00	0.000	0.005	0.0912	0.0000	0.0000	1.08E-09	0.0000	0.0000	2.48E-04
213	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	1.05	0.009	0.035	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.114	0.1156	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.47E-04
217	0.00	0.000	0.238	0.1090	0.0000	0.0000	2.90E-10	0.0000	0.0000	2.47E-04
218	0.00	0.000	0.184	0.1039	0.0000	0.0000	3.40E-09	0.0000	0.0000	2.46E-04
219	0.00	0.000	0.079	0.1017	0.0000	0.0000	1.87E-10	0.0000	0.0000	2.46E-04
220	0.00	0.000	0.069	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.059	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.054	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.054	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.051	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.045	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.045	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.036	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.13	0.000	0.032	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.006	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.40	0.000	0.038	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.14	0.000	0.048	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.021	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.021	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.025	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.028	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.028	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.028	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.029	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.028	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.01	0.000	0.036	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.030	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.025	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.027	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.024	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.026	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.024	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.025	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.025	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.022	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.018	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.022	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.025	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.016	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.07	0.000	0.028	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	*	0.31	0.000	0.040	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.04	0.000	0.055	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.23	0.000	0.035	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.09	0.000	0.033	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.042	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.010	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.009	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.008	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.009	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.010	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.010	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.010	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	*	0.00	0.000	0.009	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.010	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.04	0.000	0.031	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.010	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.13	0.000	0.036	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.08	0.000	0.054	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.10	0.000	0.072	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.15	0.000	0.036	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.091	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.047	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.039	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.081	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.074	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.056	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.048	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.042	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.038	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.029	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.035	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.033	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.021	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.06	0.000	0.030	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.01	0.000	0.012	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.03	0.000	0.024	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.21	0.000	0.033	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.017	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.016	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.016	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.019	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.020	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.05	0.000	0.042	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.019	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.015	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.011	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.008	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.006	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.007	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.006	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.009	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.01	0.000	0.016	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.10	0.000	0.029	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.003	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.008	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.006	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 17			
	inches	cubic feet	percent
Precipitation	7.50	1,906,408.3	100.00
Runoff	0.109	27,687.6	1.45
Evapotranspiration	7.989	2,029,883.1	106.48
Drainage Collected from Layer 4	0.0007	165.4	0.01
Percolation/Leakage through Layer 6	0.000000	0.0086	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.004489	1,140.5	0.06
Change in Water Storage	-0.6000	-152,468.3	-8.00
Soil Water at Start of Year	1,028.1032	##########	13703.31
Soil Water at End of Year	1,027.5032	##########	13695.31
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 18

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0911	0.0000	0.0000	5.42E-10	0.0000	0.0000	2.46E-04
8	*		0.00	0.000	0.000	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.000	0.0908	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.45E-04
14			0.00	0.000	0.004	0.0907	0.0000	0.0000	1.09E-09	0.0000	0.0000	2.45E-04
15			0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.39	0.000	0.029	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.008	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.008	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.008	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.008	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.009	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.010	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.011	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.28	0.000	0.037	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.05	0.000	0.082	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.063	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.71	0.000	0.039	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.01	0.000	0.087	0.1190	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.091	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.02	0.000	0.068	0.1152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.032	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.067	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.044	0.1112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.041	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.000	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.052	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.086	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.099	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.096	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.081	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.053	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.053	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.046	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.000	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.000	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.00	0.000	0.042	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.039	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.037	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.017	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.001	0.0901	0.0000	0.0001	3.71E-09	0.0000	0.0000	2.45E-04
76	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.18	0.000	0.029	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.002	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.009	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.011	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.34	0.000	0.038	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.013	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.01	0.000	0.017	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.009	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.009	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.011	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.012	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.013	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.013	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.013	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.012	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.012	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.012	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.013	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.013	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.013	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.013	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.012	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.013	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.014	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.014	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.014	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.16	0.000	0.040	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.013	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.015	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.016	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.015	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.015	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.014	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.013	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.014	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.015	0.0946	0.0000	0.0000	2.79E-09	0.0000	0.0000	2.44E-04
141		0.04	0.000	0.038	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.015	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.016	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.018	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.020	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.020	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.018	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.010	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.008	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.02	0.000	0.021	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.06	0.000	0.028	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.006	0.0918	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.44E-04
155		0.00	0.000	0.006	0.0916	0.0000	0.0000	4.45E-11	0.0000	0.0000	2.43E-04
156		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.04	0.000	0.023	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.02	0.000	0.016	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.17	0.000	0.032	0.0941	0.0000	0.0000	4.76E-10	0.0000	0.0000	2.43E-04
208		0.05	0.000	0.027	0.0949	0.0000	0.0000	2.28E-13	0.0000	0.0000	2.43E-04
209		0.00	0.000	0.013	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.011	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.016	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.019	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.017	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.007	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.007	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.06	0.000	0.030	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.003	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.15	0.000	0.034	0.0953	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.42E-04
224		0.00	0.000	0.010	0.0950	0.0000	0.0000	3.38E-10	0.0000	0.0000	2.42E-04
225		0.00	0.000	0.010	0.0948	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.42E-04
226		0.00	0.000	0.010	0.0945	0.0000	0.0000	1.20E-10	0.0000	0.0000	2.41E-04
227		0.00	0.000	0.009	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.010	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.011	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.00	0.000	0.011	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.00	0.000	0.012	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.00	0.000	0.013	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.003	0.0914	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.41E-04
240	0.00	0.000	0.003	0.0913	0.0000	0.0000	2.26E-09	0.0000	0.0000	2.41E-04
241	0.00	0.000	0.003	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.40E-04
242	0.22	0.000	0.032	0.0966	0.0000	0.0000	5.06E-10	0.0000	0.0000	2.40E-04
243	0.00	0.000	0.068	0.0947	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.39E-04
244	0.00	0.000	0.011	0.0945	0.0000	0.0000	3.37E-10	0.0000	0.0000	2.39E-04
245	0.00	0.000	0.009	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.008	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.007	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.007	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.007	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.007	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.007	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.007	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.006	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.25	0.000	0.035	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.087	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.145	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.007	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.007	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.007	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.007	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.49	0.000	0.036	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.03	0.000	0.092	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.130	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.122	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.121	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.032	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.16	0.000	0.038	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.008	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.022	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.014	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.014	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.011	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.13	0.000	0.038	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.006	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.020	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.022	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.021	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.009	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.09	0.000	0.035	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.01	0.000	0.016	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.43	0.000	0.045	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.076	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.088	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.098	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.107	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.117	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.024	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.001	0.0901	0.0000	0.0000	2.22E-09	0.0000	0.0000	2.39E-04
294		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.001	0.0900	0.0000	0.0001	3.56E-09	0.0000	0.0000	2.38E-04
298	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.02	0.000	0.017	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.03	0.000	0.020	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.04	0.000	0.025	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.04	0.000	0.026	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.01	0.000	0.011	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.05	0.000	0.028	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.20	0.000	0.045	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.045	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.070	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.38E-04
352	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	6.80E-09	0.0000	0.0000	2.38E-04
353	*	0.00	0.000	0.004	0.0913	0.0000	0.0000	1.11E-09	0.0000	0.0000	2.37E-04
354		0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.14	0.000	0.031	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.02	0.000	0.018	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.01	0.000	0.014	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.008	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.008	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.008	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.009	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.010	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.010	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.010	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.010	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 18			
	inches	cubic feet	percent
Precipitation	5.15	1,307,863.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.137	1,305,399.4	99.81
Drainage Collected from Layer 4	0.0002	41.0	0.00
Percolation/Leakage through Layer 6	0.000000	0.0144	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.005796	1,472.7	0.11
Change in Water Storage	0.0037	950.0	0.07
Soil Water at Start of Year	1,027.5032	##########	19962.99
Soil Water at End of Year	1,027.5069	##########	19963.06
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 19

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6 Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.02	0.000	0.015	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.07	0.000	0.058	0.0913	0.0000	0.0000	6.24E-09	0.0000	0.0000	2.37E-04
13			0.15	0.000	0.030	0.0948	0.0000	0.0000	1.11E-09	0.0000	0.0000	2.37E-04
14			0.41	0.000	0.035	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.01	0.000	0.047	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.79	0.000	0.052	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.24	0.000	0.028	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.037	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.041	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.025	0.1071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.034	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.037	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.057	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.054	0.1229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.12	0.000	0.089	0.1238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.076	0.1217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.075	0.1196	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.073	0.1176	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.071	0.1156	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.049	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.086	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.111	0.1088	0.0000	0.0000	2.79E-09	0.0000	0.0000	2.36E-04
33		0.00	0.000	0.087	0.1064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.042	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.062	0.1035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.069	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.077	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.064	0.0976	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.072	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.036	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.03	0.000	0.088	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.062	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.022	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.01	0.000	0.013	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.50	0.000	0.031	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.068	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.037	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.00	0.000	0.000	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.065	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.047	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.062	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.097	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.055	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.040	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.008	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.0900	0.0000	0.0001	3.77E-09	0.0000	0.0000	2.36E-04
73		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.05	0.000	0.026	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.49E-09	0.0000	0.0000	2.36E-04
91		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.03	0.000	0.022	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.000	0.0900	0.0000	0.0000	6.45E-10	0.0000	0.0000	2.35E-04
118		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.12	0.000	0.030	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.002	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.21	0.000	0.033	0.0971	0.0000	0.0000	3.69E-10	0.0000	0.0000	2.35E-04
154	0.00	0.000	0.084	0.0948	0.0000	0.0000	2.28E-13	0.0000	0.0000	2.35E-04
155	0.00	0.000	0.011	0.0945	0.0000	0.0000	6.95E-10	0.0000	0.0000	2.34E-04
156	0.00	0.000	0.011	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.012	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.012	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.011	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.011	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.010	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.010	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.009	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.009	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.004	0.0913	0.0000	0.0000	1.02E-09	0.0000	0.0000	2.34E-04
170	0.00	0.000	0.003	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.34E-04
171	0.00	0.000	0.003	0.0911	0.0000	0.0000	1.55E-10	0.0000	0.0000	2.33E-04
172	0.00	0.000	0.003	0.0910	0.0000	0.0000	3.39E-09	0.0000	0.0000	2.33E-04
173	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.003	0.0908	0.0000	0.0000	2.13E-09	0.0000	0.0000	2.33E-04
175	0.00	0.000	0.003	0.0907	0.0000	0.0000	3.47E-10	0.0000	0.0000	2.32E-04
176	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.003	0.0902	0.0000	0.0000	1.41E-09	0.0000	0.0000	2.32E-04
182	0.00	0.000	0.003	0.0901	0.0000	0.0000	3.72E-09	0.0000	0.0000	2.31E-04
183	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.19	0.000	0.031	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.09	0.000	0.029	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.007	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.007	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.007	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.008	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.009	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.009	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.27	0.000	0.038	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.132	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.110	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.010	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.010	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.011	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.011	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.012	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.010	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.012	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.015	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.015	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.09	0.000	0.042	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.016	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.007	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.0914	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.31E-04
213	0.00	0.000	0.004	0.0913	0.0000	0.0000	6.88E-10	0.0000	0.0000	2.31E-04
214	0.24	0.000	0.033	0.0972	0.0000	0.0000	3.92E-09	0.0000	0.0000	2.30E-04
215	0.00	0.000	0.101	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.098	0.0917	0.0000	0.0000	3.85E-09	0.0000	0.0000	2.30E-04
217	0.00	0.000	0.013	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.016	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.007	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.05	0.000	0.026	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.34	0.000	0.031	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.121	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.117	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.013	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.015	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.008	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.005	0.0907	0.0000	0.0000	2.80E-09	0.0000	0.0000	2.30E-04
243	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.65	0.000	0.042	0.1076	0.0000	0.0000	2.59E-09	0.0000	0.0000	2.29E-04
245	0.00	0.000	0.081	0.1053	0.0000	0.0000	1.65E-09	0.0000	0.0000	2.29E-04
246	0.00	0.000	0.155	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.230	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.117	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.033	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.011	0.0901	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.29E-04
251	0.12	0.000	0.043	0.0922	0.0000	0.0000	4.89E-10	0.0000	0.0000	2.29E-04
252	0.00	0.000	0.010	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.017	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.015	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.014	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.013	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.001	0.0900	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.28E-04
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	1.82E-09	0.0000	0.0000	2.28E-04
260	0.10	0.000	0.034	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.02	0.000	0.020	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.010	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.009	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.009	0.0908	0.0000	0.0000	8.82E-10	0.0000	0.0000	2.28E-04
266	0.00	0.000	0.009	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.009	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.57E-09	0.0000	0.0000	2.27E-04
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.19	0.000	0.032	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.011	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.034	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.015	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.012	0.0925	0.0000	0.0000	2.69E-09	0.0000	0.0000	2.27E-04
292	0.00	0.000	0.009	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.006	0.0919	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-04
295	0.00	0.000	0.006	0.0917	0.0000	0.0000	4.20E-10	0.0000	0.0000	2.26E-04
296	0.00	0.000	0.005	0.0916	0.0000	0.0000	1.09E-09	0.0000	0.0000	2.26E-04
297	0.00	0.000	0.005	0.0915	0.0000	0.0000	3.40E-09	0.0000	0.0000	2.26E-04
298	0.00	0.000	0.005	0.0913	0.0000	0.0000	1.76E-10	0.0000	0.0000	2.25E-04
299	0.00	0.000	0.005	0.0912	0.0000	0.0000	3.67E-09	0.0000	0.0000	2.25E-04
300	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.004	0.0908	0.0000	0.0000	8.83E-10	0.0000	0.0000	2.25E-04
303	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.004	0.0905	0.0000	0.0000	1.33E-09	0.0000	0.0000	2.24E-04
306	0.00	0.000	0.004	0.0903	0.0000	0.0000	3.78E-09	0.0000	0.0000	2.24E-04
307	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.004	0.0901	0.0000	0.0000	2.81E-09	0.0000	0.0000	2.24E-04
309		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.0900	0.0000	0.0000	2.74E-09	0.0000	0.0000	2.23E-04
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.37E-09	0.0000	0.0000	2.23E-04
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.06	0.000	0.028	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.01	0.000	0.007	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.18	0.000	0.034	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.072	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.02	0.000	0.019	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.002	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.007	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.61	0.000	0.036	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.36	0.000	0.050	0.1173	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.10	0.000	0.041	0.1178	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.04	0.000	0.022	0.1184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.055	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.042	0.1169	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.052	0.1154	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.039	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.037	0.1133	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.019	0.1128	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.041	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.029	0.1108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.026	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.032	0.1092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.023	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.041	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 19			
	inches	cubic feet	percent
Precipitation	6.50	1,650,689.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.941	1,509,652.4	91.46
Drainage Collected from Layer 4	0.0001	34.1	0.00
Percolation/Leakage through Layer 6	0.000000	0.0235	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.009886	2,511.9	0.15
Change in Water Storage	0.5450	138,491.5	8.39
Soil Water at Start of Year	1,027.5069	##########	15816.99
Soil Water at End of Year	1,028.0520	##########	15825.38
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 20

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.025	0.1067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.04	0.000	0.069	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.03	0.000	0.082	0.1046	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.13	0.000	0.118	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.09	0.000	0.077	0.1053	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.075	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.095	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.061	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.049	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.032	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.028	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.055	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.034	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.053	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.035	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.007	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*			0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34				0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*			0.15	0.000	0.049	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*			0.12	0.000	0.065	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*			0.16	0.000	0.032	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*			0.00	0.000	0.039	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*			0.00	0.000	0.053	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*			0.00	0.000	0.045	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*			0.00	0.000	0.036	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*			0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*			0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*			0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		*		0.00	0.000	0.000	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52				0.00	0.000	0.015	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53				0.00	0.000	0.016	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54				0.00	0.000	0.007	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55				0.00	0.000	0.008	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56				0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57				0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58				0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59				0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60				0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61				0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62				0.00	0.000	0.006	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.006	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.16	0.000	0.032	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.44	0.000	0.076	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.01	0.000	0.088	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.058	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.04	0.000	0.098	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.29	0.000	0.048	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.059	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.078	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.083	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.092	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.086	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.098	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.025	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.001	0.0901	0.0000	0.0001	4.17E-09	0.0000	0.0000	2.23E-04
99		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	*	0.14	0.000	0.099	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.026	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.01	0.000	0.009	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.02	0.000	0.020	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.14	0.000	0.033	0.0929	0.0000	0.0000	3.39E-09	0.0000	0.0000	2.22E-04
118		0.00	0.000	0.004	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.008	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.007	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.006	0.0920	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.22E-04
123		0.00	0.000	0.006	0.0919	0.0000	0.0000	8.60E-10	0.0000	0.0000	2.22E-04
124		0.00	0.000	0.005	0.0917	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.22E-04
125		0.00	0.000	0.005	0.0916	0.0000	0.0000	1.01E-09	0.0000	0.0000	2.21E-04
126		0.00	0.000	0.005	0.0914	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.21E-04
127		0.00	0.000	0.005	0.0913	0.0000	0.0000	1.54E-11	0.0000	0.0000	2.21E-04
128		0.00	0.000	0.005	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.20E-04
129		0.00	0.000	0.005	0.0910	0.0000	0.0000	3.64E-10	0.0000	0.0000	2.20E-04
130		0.00	0.000	0.005	0.0909	0.0000	0.0000	3.57E-09	0.0000	0.0000	2.20E-04
131		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.0901	0.0000	0.0000	3.73E-09	0.0000	0.0000	2.19E-04
137	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.33	0.000	0.031	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.147	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.112	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.01	0.000	0.024	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.022	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.07	0.000	0.039	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.009	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.004	0.0907	0.0000	0.0000	1.57E-09	0.0000	0.0000	2.19E-04
191	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.19E-04
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	6.34E-11	0.0000	0.0000	2.18E-04
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.56E-09	0.0000	0.0000	2.18E-04
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.05	0.000	0.027	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.30	0.000	0.032	0.0974	0.0000	0.0000	1.41E-09	0.0000	0.0000	2.18E-04
213	0.21	0.000	0.122	0.0998	0.0000	0.0000	3.68E-09	0.0000	0.0000	2.18E-04
214	0.12	0.000	0.168	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.172	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.058	0.0921	0.0000	0.0000	2.35E-09	0.0000	0.0000	2.17E-04
217	0.00	0.000	0.058	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.013	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.07	0.000	0.033	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.06	0.000	0.031	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.01	0.000	0.015	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.008	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.010	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.009	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.009	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.009	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.008	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.008	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.18	0.000	0.032	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.007	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.03	0.000	0.029	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.11	0.000	0.066	0.0953	0.0000	0.0000	1.11E-09	0.0000	0.0000	2.17E-04
274		0.00	0.000	0.034	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.050	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	*	0.09	0.000	0.064	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.03	0.000	0.042	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.010	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.011	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.007	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.007	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.005	0.0920	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.17E-04
285		0.00	0.000	0.005	0.0919	0.0000	0.0000	1.10E-09	0.0000	0.0000	2.16E-04
286		0.00	0.000	0.004	0.0918	0.0000	0.0000	2.84E-09	0.0000	0.0000	2.16E-04
287		0.00	0.000	0.004	0.0917	0.0000	0.0000	8.49E-10	0.0000	0.0000	2.16E-04
288		0.00	0.000	0.004	0.0915	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.15E-04
289		0.00	0.000	0.004	0.0914	0.0000	0.0000	4.89E-10	0.0000	0.0000	2.15E-04
290		0.63	0.000	0.038	0.1079	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.15E-04
291		0.00	0.000	0.040	0.1068	0.0000	0.0000	5.25E-10	0.0000	0.0000	2.15E-04
292		0.00	0.000	0.052	0.1054	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.046	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.043	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.030	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.093	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.081	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.065	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.085	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.047	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.051	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.0900	0.0000	0.0000	3.49E-09	0.0000	0.0000	2.14E-04
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.09	0.000	0.032	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.15	0.000	0.035	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.13	0.000	0.036	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.037	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.032	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.042	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.023	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.029	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.034	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.020	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.018	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.015	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.009	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.03	0.000	0.023	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.02	0.000	0.017	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.09	0.000	0.031	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.68	0.000	0.043	0.1091	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.025	0.1085	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.32	0.000	0.055	0.1159	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.040	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.040	0.1137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.032	0.1128	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.07	0.000	0.054	0.1134	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.036	0.1124	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 20			
	inches	cubic feet	percent
Precipitation	5.88	1,494,703.6	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.703	1,449,225.3	96.96
Drainage Collected from Layer 4	0.0002	49.1	0.00
Percolation/Leakage through Layer 6	0.000000	0.0161	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.006336	1,610.0	0.11
Change in Water Storage	0.1724	43,819.1	2.93
Soil Water at Start of Year	1,028.0520	##########	17476.91
Soil Water at End of Year	1,028.2244	##########	17479.84
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 21

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.053	0.1110	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.031	0.1101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.048	0.1088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.03	0.000	0.074	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.01	0.000	0.042	0.1066	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.032	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.038	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.035	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.043	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.038	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.051	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.061	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.050	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.056	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.033	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.063	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.053	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.027	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.025	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.02	0.000	0.028	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.007	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.01	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.10	0.000	0.032	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.003	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.27	0.000	0.036	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.07	0.000	0.068	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.28	0.000	0.071	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.059	0.1022	0.0000	0.0000	1.13E-09	0.0000	0.0000	2.14E-04
50		0.00	0.000	0.056	0.1006	0.0000	0.0000	6.51E-10	0.0000	0.0000	2.14E-04
51		0.00	0.000	0.116	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.056	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.25	0.000	0.112	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.098	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.074	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.097	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.027	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.020	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.019	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.007	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.34	0.000	0.034	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.49	0.000	0.062	0.1103	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.033	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.044	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.071	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.093	0.1037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.156	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.138	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.134	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.046	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.05	0.000	0.030	0.0906	0.0000	0.0000	3.31E-09	0.0000	0.0000	2.13E-04
93		0.02	0.000	0.018	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.09	0.000	0.033	0.0921	0.0000	0.0000	1.95E-09	0.0000	0.0000	2.13E-04
95		0.00	0.000	0.004	0.0920	0.0000	0.0000	2.28E-13	0.0000	0.0000	2.13E-04
96		0.00	0.000	0.009	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.008	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.008	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.13E-04
100	0.00	0.000	0.008	0.0909	0.0000	0.0000	4.32E-10	0.0000	0.0000	2.12E-04
101	0.00	0.000	0.007	0.0907	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.12E-04
102	0.00	0.000	0.007	0.0905	0.0000	0.0000	5.49E-10	0.0000	0.0000	2.12E-04
103	0.00	0.000	0.007	0.0903	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.11E-04
104	0.00	0.000	0.007	0.0901	0.0000	0.0000	4.20E-10	0.0000	0.0000	2.11E-04
105	0.00	0.000	0.002	0.0900	0.0000	0.0000	3.74E-09	0.0000	0.0000	2.11E-04
106	0.01	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.01	0.000	0.011	0.0900	0.0000	0.0000	3.41E-09	0.0000	0.0000	2.11E-04
108	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.01	0.000	0.011	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.13	0.000	0.031	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.002	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.06	0.000	0.031	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.008	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.008	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.010	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.02	0.000	0.018	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.0918	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.10E-04
201	0.00	0.000	0.004	0.0917	0.0000	0.0000	4.82E-10	0.0000	0.0000	2.10E-04
202	0.00	0.000	0.004	0.0916	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.10E-04

203	0.00	0.000	0.004	0.0915	0.0000	0.0000	6.00E-10	0.0000	0.0000	2.10E-04
204	0.00	0.000	0.004	0.0914	0.0000	0.0000	3.34E-09	0.0000	0.0000	2.09E-04
205	0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.0912	0.0000	0.0000	3.34E-09	0.0000	0.0000	2.09E-04
207	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.0908	0.0000	0.0000	3.97E-09	0.0000	0.0000	2.09E-04
211	0.00	0.000	0.003	0.0907	0.0000	0.0000	6.44E-10	0.0000	0.0000	2.08E-04
212	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.0904	0.0000	0.0000	6.69E-10	0.0000	0.0000	2.08E-04
215	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.95E-09	0.0000	0.0000	2.08E-04
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.06	0.000	0.027	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.003	0.0902	0.0000	0.0000	3.83E-10	0.0000	0.0000	2.08E-04
234	0.38	0.000	0.034	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.135	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.144	0.0922	0.0000	0.0000	1.15E-09	0.0000	0.0000	2.07E-04
237	0.00	0.000	0.010	0.0919	0.0000	0.0000	3.67E-09	0.0000	0.0000	2.07E-04

238	0.00	0.000	0.010	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.009	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.009	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.007	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.003	0.0902	0.0000	0.0000	1.35E-09	0.0000	0.0000	2.07E-04
248	0.00	0.000	0.003	0.0901	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.06E-04
249	0.00	0.000	0.003	0.0901	0.0000	0.0000	5.46E-12	0.0000	0.0000	2.06E-04
250	0.00	0.000	0.002	0.0900	0.0000	0.0000	3.53E-09	0.0000	0.0000	2.06E-04
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.17	0.000	0.032	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.001	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.005	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.005	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.005	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.005	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.005	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.006	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.006	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.007	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.003	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.002	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.002	0.0915	0.0000	0.0000	3.33E-09	0.0000	0.0000	2.06E-04
280	0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.002	0.0914	0.0000	0.0000	2.79E-09	0.0000	0.0000	2.05E-04
282	0.00	0.000	0.002	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.002	0.0913	0.0000	0.0000	2.75E-09	0.0000	0.0000	2.05E-04
284	0.00	0.000	0.002	0.0912	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.05E-04
285	0.00	0.000	0.002	0.0912	0.0000	0.0000	3.20E-09	0.0000	0.0000	2.05E-04
286	0.00	0.000	0.002	0.0911	0.0000	0.0000	1.07E-09	0.0000	0.0000	2.04E-04
287	0.00	0.000	0.002	0.0911	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.04E-04
288	0.00	0.000	0.002	0.0910	0.0000	0.0000	1.59E-09	0.0000	0.0000	2.04E-04
289	0.00	0.000	0.002	0.0909	0.0000	0.0000	2.83E-09	0.0000	0.0000	2.04E-04
290	0.00	0.000	0.002	0.0909	0.0000	0.0000	1.64E-09	0.0000	0.0000	2.03E-04
291	0.00	0.000	0.002	0.0908	0.0000	0.0000	3.96E-09	0.0000	0.0000	2.03E-04
292	0.00	0.000	0.002	0.0908	0.0000	0.0000	1.85E-09	0.0000	0.0000	2.03E-04
293	0.00	0.000	0.002	0.0907	0.0000	0.0000	4.54E-09	0.0000	0.0000	2.03E-04
294	0.00	0.000	0.002	0.0906	0.0000	0.0000	5.02E-09	0.0000	0.0000	2.02E-04
295	0.00	0.000	0.002	0.0906	0.0000	0.0000	6.09E-10	0.0000	0.0000	2.02E-04
296	0.00	0.000	0.002	0.0905	0.0000	0.0000	4.61E-09	0.0000	0.0000	2.02E-04
297	0.00	0.000	0.002	0.0905	0.0000	0.0000	5.67E-10	0.0000	0.0000	2.01E-04
298	0.00	0.000	0.002	0.0904	0.0000	0.0000	5.40E-09	0.0000	0.0000	2.01E-04
299	0.00	0.000	0.002	0.0904	0.0000	0.0000	4.99E-09	0.0000	0.0000	2.01E-04
300	0.00	0.000	0.002	0.0903	0.0000	0.0000	2.15E-09	0.0000	0.0000	2.01E-04
301	0.00	0.000	0.002	0.0902	0.0000	0.0000	4.38E-09	0.0000	0.0000	2.00E-04
302	0.00	0.000	0.002	0.0902	0.0000	0.0000	3.18E-10	0.0000	0.0000	2.00E-04
303	0.00	0.000	0.002	0.0901	0.0000	0.0000	4.98E-09	0.0000	0.0000	2.00E-04
304	0.00	0.000	0.002	0.0901	0.0000	0.0000	2.81E-09	0.0000	0.0000	2.00E-04
305	0.00	0.000	0.002	0.0900	0.0000	0.0000	6.15E-09	0.0000	0.0000	1.99E-04
306	0.00	0.000	0.001	0.0900	0.0000	0.0000	9.26E-10	0.0000	0.0000	1.99E-04
307	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.22E-09	0.0000	0.0000	1.99E-04

308		0.00	0.000	0.000	0.0900	0.0000	0.0000	1.03E-09	0.0000	0.0000	1.99E-04
309		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 21			
	inches	cubic feet	percent
Precipitation	2.95	749,519.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.757	954,570.1	127.36
Drainage Collected from Layer 4	0.0000	9.7452	0.00
Percolation/Leakage through Layer 6	0.000000	0.0350	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.011958	3,038.6	0.41
Change in Water Storage	-0.8190	-208,099.5	-27.76
Soil Water at Start of Year	1,028.2244	##########	34858.60
Soil Water at End of Year	1,027.4054	##########	34830.84
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 22

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.75	0.000	0.034	0.1100	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.98E-04
31		0.14	0.000	0.077	0.1118	0.0000	0.0000	2.80E-09	0.0000	0.0000	1.98E-04
32		0.39	0.000	0.054	0.1211	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.05	0.000	0.051	0.1210	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.04	0.000	0.071	0.1201	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.047	0.1188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.071	0.1168	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.093	0.1142	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.081	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.074	0.1099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.085	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.121	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.108	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.060	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.081	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.111	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.059	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.061	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.06	0.000	0.031	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.08	0.000	0.033	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.36	0.000	0.035	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.09	0.000	0.059	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.50	0.000	0.048	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.132	0.1110	0.0000	0.0000	5.10E-09	0.0000	0.0000	1.98E-04
64	0.00	0.000	0.080	0.1088	0.0000	0.0000	1.58E-10	0.0000	0.0000	1.98E-04
65	0.00	0.000	0.056	0.1072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.041	0.1061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.062	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.071	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.084	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.097	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.140	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.106	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.01	0.000	0.010	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.09	0.000	0.037	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.007	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.014	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.012	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.012	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.011	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.14	0.000	0.038	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.006	0.0929	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.97E-04
85	0.00	0.000	0.013	0.0926	0.0000	0.0000	6.58E-10	0.0000	0.0000	1.97E-04
86	0.00	0.000	0.009	0.0923	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.97E-04
87	0.00	0.000	0.009	0.0921	0.0000	0.0000	5.86E-10	0.0000	0.0000	1.97E-04
88	0.00	0.000	0.008	0.0918	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.96E-04
89	0.00	0.000	0.008	0.0916	0.0000	0.0000	1.07E-09	0.0000	0.0000	1.96E-04
90	0.00	0.000	0.007	0.0914	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.96E-04
91	0.00	0.000	0.007	0.0912	0.0000	0.0000	1.12E-09	0.0000	0.0000	1.96E-04
92	0.00	0.000	0.007	0.0910	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.95E-04
93	0.00	0.000	0.007	0.0908	0.0000	0.0000	7.25E-10	0.0000	0.0000	1.95E-04
94	0.00	0.000	0.007	0.0906	0.0000	0.0000	3.89E-09	0.0000	0.0000	1.95E-04
95	0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.006	0.0903	0.0000	0.0000	3.85E-09	0.0000	0.0000	1.95E-04
97	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	1.33E-09	0.0000	0.0000	1.94E-04
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.04	0.000	0.025	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.01	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.001	0.0900	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.94E-04
126		0.00	0.000	0.004	0.0900	0.0000	0.0000	4.71E-09	0.0000	0.0000	1.94E-04
127		0.00	0.000	0.000	0.0900	0.0000	0.0000	4.49E-10	0.0000	0.0000	1.94E-04
128		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.01	0.000	0.013	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.030	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.003	0.0906	0.0000	0.0000	1.06E-09	0.0000	0.0000	1.94E-04
198	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.003	0.0903	0.0000	0.0000	3.57E-09	0.0000	0.0000	1.93E-04
201	0.00	0.000	0.003	0.0902	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.93E-04
202	0.00	0.000	0.003	0.0901	0.0000	0.0000	1.02E-09	0.0000	0.0000	1.93E-04

203	0.00	0.000	0.003	0.0900	0.0000	0.0000	1.13E-09	0.0000	0.0000	1.93E-04
204	0.00	0.000	0.001	0.0900	0.0000	0.0000	2.07E-09	0.0000	0.0000	1.92E-04
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.04	0.000	0.023	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.10	0.000	0.031	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.002	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.0915	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.92E-04
222	0.00	0.000	0.004	0.0914	0.0000	0.0000	4.43E-10	0.0000	0.0000	1.92E-04
223	0.00	0.000	0.003	0.0914	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.92E-04
224	0.00	0.000	0.003	0.0913	0.0000	0.0000	4.36E-10	0.0000	0.0000	1.91E-04
225	0.00	0.000	0.003	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.91E-04
226	0.00	0.000	0.003	0.0911	0.0000	0.0000	4.11E-10	0.0000	0.0000	1.91E-04
227	0.00	0.000	0.003	0.0910	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.91E-04
228	0.00	0.000	0.003	0.0909	0.0000	0.0000	3.95E-10	0.0000	0.0000	1.90E-04
229	0.00	0.000	0.003	0.0908	0.0000	0.0000	3.62E-09	0.0000	0.0000	1.90E-04
230	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.14	0.000	0.032	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.006	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.005	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.005	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.004	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.003	0.0921	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.90E-04
250	0.00	0.000	0.007	0.0920	0.0000	0.0000	3.66E-10	0.0000	0.0000	1.90E-04
251	0.00	0.000	0.003	0.0920	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.90E-04
252	0.00	0.000	0.003	0.0919	0.0000	0.0000	5.66E-10	0.0000	0.0000	1.89E-04
253	0.00	0.000	0.003	0.0918	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.89E-04
254	0.00	0.000	0.003	0.0917	0.0000	0.0000	5.58E-10	0.0000	0.0000	1.89E-04
255	0.00	0.000	0.003	0.0916	0.0000	0.0000	3.96E-09	0.0000	0.0000	1.89E-04
256	0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.003	0.0915	0.0000	0.0000	3.74E-09	0.0000	0.0000	1.88E-04
258	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.002	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.88E-04
260	0.00	0.000	0.002	0.0913	0.0000	0.0000	1.16E-11	0.0000	0.0000	1.88E-04
261	0.00	0.000	0.002	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.88E-04
262	0.00	0.000	0.002	0.0911	0.0000	0.0000	5.36E-11	0.0000	0.0000	1.88E-04
263	0.00	0.000	0.002	0.0911	0.0000	0.0000	1.70E-09	0.0000	0.0000	1.87E-04
264	0.00	0.000	0.002	0.0910	0.0000	0.0000	1.66E-09	0.0000	0.0000	1.87E-04
265	0.00	0.000	0.002	0.0909	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.87E-04
266	0.00	0.000	0.002	0.0909	0.0000	0.0000	3.91E-10	0.0000	0.0000	1.87E-04
267	0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.002	0.0904	0.0000	0.0000	2.76E-09	0.0000	0.0000	1.86E-04
275	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.33	0.000	0.034	0.0985	0.0000	0.0000	3.74E-09	0.0000	0.0000	1.86E-04
277	0.39	0.000	0.098	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.077	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.076	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.049	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.107	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.147	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.077	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.044	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.68	0.000	0.052	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.08	0.000	0.102	0.1071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.085	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.066	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.074	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.078	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.176	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.05	0.000	0.137	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.25	0.000	0.063	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.047	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.01	0.000	0.051	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.046	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.019	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.017	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.011	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	*	0.00	0.000	0.000	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.010	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.008	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.09	0.000	0.048	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.04	0.000	0.035	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.009	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.007	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.006	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.006	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.12	0.000	0.033	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.002	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.21	0.000	0.052	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.23	0.000	0.029	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.09	0.000	0.031	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.05	0.000	0.000	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.053	0.1041	0.0000	0.0000	3.30E-09	0.0000	0.0000	1.86E-04
364		0.00	0.000	0.034	0.1031	0.0000	0.0000	1.02E-09	0.0000	0.0000	1.86E-04
365		0.00	0.000	0.024	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 22			
	inches	cubic feet	percent
Precipitation	5.75	1,462,219.6	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.306	1,348,210.2	92.20
Drainage Collected from Layer 4	0.0001	14.3	0.00
Percolation/Leakage through Layer 6	0.000000	0.0301	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.010557	2,682.6	0.18
Change in Water Storage	0.4381	111,312.5	7.61
Soil Water at Start of Year	1,027.4054	##########	17853.93
Soil Water at End of Year	1,027.8435	##########	17861.55
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 23

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.024	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.1018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.035	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.024	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.028	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*	*	0.00	0.000	0.000	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15		*	0.00	0.000	0.000	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.23	0.000	0.089	0.1034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.11	0.000	0.079	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.18	0.000	0.066	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.18	0.000	0.068	0.1106	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.029	0.1098	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.029	0.1090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.45	0.000	0.082	0.1192	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.052	0.1177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.058	0.1161	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.045	0.1149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.059	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.082	0.1109	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.042	0.1098	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.068	0.1079	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.038	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.045	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.053	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.063	0.1023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.075	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.062	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.087	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.048	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.074	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.047	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.026	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.24	0.000	0.037	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.08	0.000	0.054	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.025	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.00	0.000	0.000	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.040	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.027	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.001	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.19	0.000	0.027	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.023	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.064	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.043	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.058	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.023	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.022	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.017	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.014	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.014	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.012	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.012	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.15	0.000	0.035	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.02	0.000	0.018	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.05	0.000	0.033	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.10	0.000	0.035	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.015	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.015	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.015	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.018	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.019	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.018	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.31	0.000	0.050	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.064	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.109	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.16	0.000	0.127	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.066	0.0947	0.0000	0.0000	2.97E-09	0.0000	0.0000	1.86E-04
89		0.28	0.000	0.107	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.164	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.071	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.046	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.029	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.04	0.000	0.038	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.009	0.0908	0.0000	0.0001	2.84E-09	0.0000	0.0000	1.85E-04
96		0.00	0.000	0.013	0.0904	0.0000	0.0000	1.76E-09	0.0000	0.0000	1.85E-04
97		0.00	0.000	0.011	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.001	0.0900	0.0000	0.0000	2.12E-09	0.0000	0.0000	1.85E-04
100	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.24	0.000	0.036	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.015	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.017	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.017	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.021	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.022	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.022	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.016	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.008	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.009	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.007	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.007	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.007	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.007	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.007	0.0903	0.0000	0.0000	3.82E-09	0.0000	0.0000	1.85E-04
121	0.00	0.000	0.007	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.67E-09	0.0000	0.0000	1.84E-04
126	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.08	0.000	0.032	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.001	0.0900	0.0000	0.0000	1.63E-09	0.0000	0.0000	1.84E-04
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	8.75E-10	0.0000	0.0000	1.84E-04
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.11E-09	0.0000	0.0000	1.84E-04
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.29	0.000	0.034	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.097	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.06	0.000	0.039	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.014	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.017	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.019	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.015	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.015	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.016	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.007	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.006	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.10	0.000	0.035	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.003	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.010	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.007	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.006	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.006	0.0920	0.0000	0.0000	3.40E-09	0.0000	0.0000	1.84E-04
221	0.19	0.000	0.038	0.0963	0.0000	0.0000	5.42E-10	0.0000	0.0000	1.83E-04
222	0.00	0.000	0.071	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.075	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.018	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.017	0.0912	0.0000	0.0000	1.70E-09	0.0000	0.0000	1.83E-04
226	0.00	0.000	0.008	0.0910	0.0000	0.0000	5.51E-10	0.0000	0.0000	1.83E-04
227	0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.005	0.0902	0.0000	0.0000	3.94E-09	0.0000	0.0000	1.83E-04
233	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.13	0.000	0.036	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.006	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.005	0.0920	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.82E-04
240	0.00	0.000	0.005	0.0919	0.0000	0.0000	8.66E-10	0.0000	0.0000	1.82E-04
241	0.00	0.000	0.004	0.0917	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.82E-04
242	0.00	0.000	0.004	0.0916	0.0000	0.0000	3.19E-10	0.0000	0.0000	1.82E-04
243	0.00	0.000	0.004	0.0915	0.0000	0.0000	3.93E-09	0.0000	0.0000	1.82E-04
244	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.004	0.0909	0.0000	0.0000	1.27E-09	0.0000	0.0000	1.81E-04
249	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.003	0.0903	0.0000	0.0000	1.29E-09	0.0000	0.0000	1.81E-04
255	0.00	0.000	0.003	0.0902	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.81E-04
256	0.00	0.000	0.003	0.0901	0.0000	0.0000	8.92E-11	0.0000	0.0000	1.81E-04
257	0.00	0.000	0.003	0.0901	0.0000	0.0000	3.47E-09	0.0000	0.0000	1.81E-04
258	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.11	0.000	0.033	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.001	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.003	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.003	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.002	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.002	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.002	0.0917	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.80E-04
281	0.00	0.000	0.002	0.0916	0.0000	0.0000	1.48E-09	0.0000	0.0000	1.80E-04
282	0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.002	0.0914	0.0000	0.0000	3.78E-09	0.0000	0.0000	1.80E-04
285	0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.002	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.002	0.0912	0.0000	0.0000	1.29E-09	0.0000	0.0000	1.80E-04
288	0.00	0.000	0.002	0.0912	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.80E-04
289	0.00	0.000	0.002	0.0911	0.0000	0.0000	1.20E-09	0.0000	0.0000	1.79E-04
290	0.00	0.000	0.002	0.0910	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.79E-04
291	0.00	0.000	0.002	0.0910	0.0000	0.0000	1.47E-09	0.0000	0.0000	1.79E-04
292	0.00	0.000	0.002	0.0909	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.79E-04
293	0.00	0.000	0.002	0.0909	0.0000	0.0000	2.14E-09	0.0000	0.0000	1.79E-04
294	0.00	0.000	0.002	0.0908	0.0000	0.0000	4.54E-09	0.0000	0.0000	1.78E-04
295	0.00	0.000	0.002	0.0907	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.78E-04
296	0.00	0.000	0.002	0.0907	0.0000	0.0000	3.80E-09	0.0000	0.0000	1.78E-04
297	0.00	0.000	0.002	0.0906	0.0000	0.0000	1.67E-09	0.0000	0.0000	1.78E-04
298	0.00	0.000	0.002	0.0906	0.0000	0.0000	4.93E-09	0.0000	0.0000	1.77E-04
299	0.00	0.000	0.002	0.0905	0.0000	0.0000	1.08E-09	0.0000	0.0000	1.77E-04
300	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.002	0.0904	0.0000	0.0000	3.39E-09	0.0000	0.0000	1.77E-04
302	0.00	0.000	0.002	0.0903	0.0000	0.0000	4.54E-09	0.0000	0.0000	1.77E-04
303	0.00	0.000	0.002	0.0903	0.0000	0.0000	1.02E-09	0.0000	0.0000	1.77E-04
304	0.00	0.000	0.002	0.0902	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.76E-04
305	0.00	0.000	0.002	0.0902	0.0000	0.0000	2.31E-09	0.0000	0.0000	1.76E-04
306	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.09	0.000	0.033	0.0916	0.0000	0.0000	5.16E-10	0.0000	0.0000	1.76E-04
309		0.11	0.000	0.033	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		1.21	0.033	0.078	0.1242	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.031	0.1234	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.019	0.1228	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.032	0.1219	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.079	0.1197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.038	0.1187	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.032	0.1178	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.043	0.1166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.079	0.1144	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.085	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.037	0.1110	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.023	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.1104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.037	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.022	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.021	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.037	0.1071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.048	0.1058	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.106	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.068	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.068	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.074	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.074	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.066	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.059	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.025	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.007	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.01	0.000	0.014	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 23			
	inches	cubic feet	percent
Precipitation	5.42	1,376,742.4	100.00
Runoff	0.033	8,268.0	0.60
Evapotranspiration	5.834	1,482,427.1	107.68
Drainage Collected from Layer 4	0.0002	42.2	0.00
Percolation/Leakage through Layer 6	0.000000	0.0287	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.008313	2,112.4	0.15
Change in Water Storage	-0.4569	-116,107.4	-8.43
Soil Water at Start of Year	1,027.8435	##########	18970.51
Soil Water at End of Year	1,027.3866	##########	18962.07
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 24

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.13	0.000	0.045	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.064	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.03	0.000	0.023	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.12	0.000	0.034	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.009	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.016	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.010	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.33	0.000	0.046	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.032	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.022	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.04	0.000	0.056	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.05	0.000	0.052	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.038	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.071	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.098	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.045	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.019	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.21	0.000	0.037	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.017	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.056	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.023	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.018	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.008	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.008	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.00	0.000	0.000	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.008	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.008	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.007	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.15	0.000	0.035	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.01	0.000	0.023	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.03	0.000	0.057	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.010	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.005	0.0904	0.0000	0.0000	3.39E-09	0.0000	0.0000	1.76E-04
81	0.01	0.000	0.011	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.04	0.000	0.026	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.02	0.000	0.016	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.05	0.000	0.030	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.003	0.0906	0.0000	0.0000	3.31E-09	0.0000	0.0000	1.76E-04
91	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.004	0.0902	0.0000	0.0000	1.13E-09	0.0000	0.0000	1.75E-04
95	0.00	0.000	0.004	0.0900	0.0000	0.0000	1.05E-09	0.0000	0.0000	1.75E-04
96	0.00	0.000	0.001	0.0900	0.0000	0.0000	3.75E-09	0.0000	0.0000	1.75E-04
97	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.75E-04
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	1.08E-09	0.0000	0.0000	1.75E-04
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.09	0.000	0.033	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.002	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.06	0.000	0.030	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.0917	0.0000	0.0000	2.82E-09	0.0000	0.0000	1.75E-04
121		0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.004	0.0915	0.0000	0.0000	3.87E-09	0.0000	0.0000	1.74E-04
123		0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.004	0.0913	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.74E-04
125		0.00	0.000	0.004	0.0912	0.0000	0.0000	1.69E-09	0.0000	0.0000	1.74E-04
126		0.00	0.000	0.004	0.0911	0.0000	0.0000	2.82E-09	0.0000	0.0000	1.74E-04
127		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.004	0.0909	0.0000	0.0000	1.70E-09	0.0000	0.0000	1.74E-04
129		0.00	0.000	0.004	0.0908	0.0000	0.0000	8.22E-10	0.0000	0.0000	1.73E-04
130		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.004	0.0903	0.0000	0.0000	4.40E-09	0.0000	0.0000	1.73E-04
135	0.00	0.000	0.004	0.0902	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.73E-04
136	0.00	0.000	0.003	0.0901	0.0000	0.0000	1.03E-09	0.0000	0.0000	1.73E-04
137	0.00	0.000	0.003	0.0900	0.0000	0.0000	1.13E-09	0.0000	0.0000	1.73E-04
138	0.00	0.000	0.001	0.0900	0.0000	0.0000	2.04E-09	0.0000	0.0000	1.72E-04
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	4.54E-09	0.0000	0.0000	1.72E-04
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	5.60E-10	0.0000	0.0000	1.72E-04
141	0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.07	0.000	0.030	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.001	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.10	0.000	0.034	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.06	0.000	0.030	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.03	0.000	0.038	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.044	0.0918	0.0000	0.0000	3.57E-09	0.0000	0.0000	1.72E-04
199	0.12	0.000	0.039	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.02	0.000	0.071	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.052	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.010	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.05	0.000	0.036	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.003	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.003	0.0907	0.0000	0.0000	3.43E-09	0.0000	0.0000	1.72E-04
211		0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.003	0.0902	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.71E-04
216		0.00	0.000	0.003	0.0901	0.0000	0.0000	7.60E-10	0.0000	0.0000	1.71E-04
217		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.0900	0.0000	0.0000	9.32E-10	0.0000	0.0000	1.71E-04
221		0.15	0.000	0.035	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.03	0.000	0.060	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.062	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.011	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.16	0.000	0.043	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.04	0.000	0.045	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.044	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.065	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.011	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.65	0.000	0.039	0.1070	0.0000	0.0000	2.16E-09	0.0000	0.0000	1.71E-04
247	0.35	0.000	0.104	0.1138	0.0000	0.0000	3.31E-09	0.0000	0.0000	1.71E-04
248	0.06	0.000	0.157	0.1110	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.26	0.000	0.170	0.1135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.08	0.000	0.180	0.1107	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.137	0.1069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.078	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.072	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.115	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.076	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.118	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.085	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.047	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.36	0.000	0.038	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.23	0.000	0.079	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.075	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.080	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.116	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.101	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.081	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.014	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.31	0.000	0.038	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.076	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.089	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.041	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.044	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.014	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.59E-09	0.0000	0.0000	1.70E-04
304	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.21	0.000	0.037	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.009	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.045	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.032	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.030	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.027	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.022	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.007	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	1.00	0.000	0.037	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.045	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.1155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.044	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.029	0.1135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.047	0.1122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.037	0.1112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.036	0.1102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.025	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.031	0.1086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.036	0.1076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.020	0.1070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.018	0.1065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.014	0.1061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.018	0.1056	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.08	0.000	0.046	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.012	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.016	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.08	0.000	0.045	0.1063	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.031	0.1059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.015	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.021	0.1049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.027	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.036	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.044	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.035	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.047	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.025	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.00	0.000	0.000	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.035	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.24	0.000	0.040	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.083	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.045	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.021	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 24			
	inches	cubic feet	percent
Precipitation	6.14	1,561,289.2	100.00
Runoff	0.000	16.3	0.00
Evapotranspiration	5.808	1,475,920.9	94.53
Drainage Collected from Layer 4	0.0000	5.6333	0.00
Percolation/Leakage through Layer 6	0.000000	0.0174	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.005022	1,276.0	0.08
Change in Water Storage	0.3309	84,070.4	5.38
Soil Water at Start of Year	1,027.3866	##########	16720.73
Soil Water at End of Year	1,027.7174	##########	16726.11
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 25

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6 Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.02	0.000	0.022	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.029	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.028	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.030	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.026	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.033	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.055	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.052	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.043	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.019	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.03	0.000	0.026	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.11	0.000	0.037	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.006	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.011	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.010	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.010	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.0917	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.70E-04
26	*		0.00	0.000	0.000	0.0917	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.70E-04
27	*		0.00	0.000	0.000	0.0917	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.70E-04

28	*	0.00	0.000	0.008	0.0915	0.0000	0.0000	1.06E-09	0.0000	0.0000	1.70E-04
29	*	0.00	0.000	0.000	0.0915	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.70E-04
30		0.00	0.000	0.008	0.0912	0.0000	0.0000	1.06E-09	0.0000	0.0000	1.69E-04
31		0.00	0.000	0.008	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.012	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.001	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.05	0.000	0.029	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.04	0.000	0.043	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.07	0.000	0.031	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.002	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.08	0.000	0.078	0.0905	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.69E-04
91		0.11	0.000	0.035	0.0927	0.0000	0.0000	1.11E-09	0.0000	0.0000	1.69E-04
92		0.34	0.000	0.036	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.039	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.039	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.063	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.042	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.104	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.096	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.010	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.0901	0.0000	0.0000	3.34E-09	0.0000	0.0000	1.69E-04
114		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.07	0.000	0.032	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.005	0.0901	0.0000	0.0000	2.80E-09	0.0000	0.0000	1.69E-04
140	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.07	0.000	0.032	0.0911	0.0000	0.0000	2.77E-09	0.0000	0.0000	1.68E-04
142	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.005	0.0909	0.0000	0.0000	3.72E-09	0.0000	0.0000	1.68E-04
144	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.005	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.004	0.0900	0.0000	0.0000	3.48E-09	0.0000	0.0000	1.68E-04
151	0.00	0.000	0.001	0.0900	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.68E-04
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.10E-09	0.0000	0.0000	1.68E-04
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.89E-09	0.0000	0.0000	1.68E-04
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.67E-04
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.01	0.000	0.013	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.08	0.000	0.032	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.001	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.25	0.000	0.036	0.0973	0.0000	0.0000	1.49E-09	0.0000	0.0000	1.67E-04
248	0.00	0.000	0.088	0.0948	0.0000	0.0000	2.28E-13	0.0000	0.0000	1.67E-04
249	0.00	0.000	0.076	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.009	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.009	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.003	0.0915	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.67E-04
259	0.00	0.000	0.003	0.0914	0.0000	0.0000	6.81E-11	0.0000	0.0000	1.67E-04
260	0.00	0.000	0.003	0.0913	0.0000	0.0000	3.57E-09	0.0000	0.0000	1.66E-04
261	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.003	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.003	0.0909	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.66E-04
267	0.00	0.000	0.002	0.0908	0.0000	0.0000	8.97E-10	0.0000	0.0000	1.66E-04
268	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.002	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.0903	0.0000	0.0000	1.62E-09	0.0000	0.0000	1.66E-04
275		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.25	0.000	0.036	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.044	0.0951	0.0000	0.0000	5.55E-10	0.0000	0.0000	1.66E-04
278		0.00	0.000	0.085	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.042	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.041	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.0900	0.0000	0.0000	2.80E-09	0.0000	0.0000	1.66E-04
293	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.05	0.000	0.029	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	3.19E-09	0.0000	0.0000	1.65E-04

308	*	0.00	0.000	0.000	0.0904	0.0000	0.0000	3.19E-09	0.0000	0.0000	1.65E-04
309		0.00	0.000	0.006	0.0902	0.0000	0.0000	2.28E-13	0.0000	0.0000	1.65E-04
310		0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.08	0.000	0.035	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.18	0.000	0.036	0.0953	0.0000	0.0000	1.49E-09	0.0000	0.0000	1.65E-04
313		0.00	0.000	0.015	0.0949	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.65E-04
314		0.00	0.000	0.029	0.0941	0.0000	0.0000	4.02E-10	0.0000	0.0000	1.65E-04
315		0.00	0.000	0.016	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.016	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.015	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.015	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.009	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.008	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.005	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.06	0.000	0.030	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.002	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.08	0.000	0.042	0.0906	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.64E-04
350	*	0.03	0.000	0.047	0.0907	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.64E-04
351		0.00	0.000	0.002	0.0906	0.0000	0.0000	1.11E-09	0.0000	0.0000	1.64E-04
352		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.04	0.000	0.044	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.15	0.000	0.035	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.002	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.007	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.007	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.005	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 25			
	inches	cubic feet	percent
Precipitation	2.29	581,747.7	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	2.536	644,272.4	110.75
Drainage Collected from Layer 4	0.0000	9.2257	0.00
Percolation/Leakage through Layer 6	0.000000	0.0262	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.006016	1,528.6	0.26
Change in Water Storage	-0.2521	-64,062.5	-11.01
Soil Water at Start of Year	1,027.7174	##########	44889.39
Soil Water at End of Year	1,027.4653	##########	44878.38
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 26

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.005	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.02	0.000	0.017	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.002	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.003	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.12	0.000	0.035	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.58	0.000	0.041	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.046	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.030	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.029	0.1060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.044	0.1048	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.028	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.055	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.038	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			1.39	0.063	0.070	0.1363	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.053	0.1349	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.054	0.1334	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.054	0.1319	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.045	0.1306	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.059	0.1290	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.040	0.1279	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.024	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.1272	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.035	0.1262	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.070	0.1243	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.041	0.1231	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.048	0.1218	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.043	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		1.31	0.057	0.096	0.1527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.058	0.1511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.066	0.1492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.090	0.1467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.118	0.1435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.057	0.1419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.065	0.1401	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.044	0.1389	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.039	0.1378	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.035	0.1368	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.046	0.1355	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.1355	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.048	0.1342	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.054	0.1327	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.00	0.000	0.032	0.1318	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.030	0.1310	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.032	0.1301	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.030	0.1292	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.1292	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.1292	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.052	0.1278	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.29	0.000	0.067	0.1339	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.73	0.000	0.042	0.1345	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.031	0.1350	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.059	0.1505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.038	0.1494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.106	0.1465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.048	0.1451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.049	0.1438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.000	0.1438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.00	0.000	0.000	0.1438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.056	0.1422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.1422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.073	0.1402	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.074	0.1381	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.071	0.1361	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.123	0.1327	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.086	0.1303	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.102	0.1275	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.053	0.1260	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.071	0.1240	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.096	0.1214	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.137	0.1176	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.119	0.1143	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.084	0.1119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.02	0.000	0.080	0.1103	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.056	0.1088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.049	0.1074	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.043	0.1062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.041	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.037	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.036	0.1030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.034	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.031	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.031	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.029	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.16	0.000	0.062	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.14	0.000	0.061	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.029	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.027	0.1028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.027	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.027	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.026	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.025	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.026	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.026	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.027	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.025	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.024	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.022	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.023	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.024	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.022	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.020	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.020	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.015	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.010	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.03	0.000	0.030	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.010	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.008	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.008	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.008	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.006	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.008	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.03	0.000	0.021	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.01	0.000	0.008	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.003	0.0900	0.0000	0.0000	6.01E-10	0.0000	0.0000	1.64E-04
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.28E-13	0.0000	0.0000	1.64E-04
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.23	0.000	0.036	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.010	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.010	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.011	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.011	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.014	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.016	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.015	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.015	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.015	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.02	0.000	0.023	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.01	0.000	0.011	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.10	0.000	0.036	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.004	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.010	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.22	0.000	0.043	0.0984	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.011	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.03	0.000	0.034	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.22	0.000	0.046	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.012	0.1028	0.0000	0.0000	2.04E-09	0.0000	0.0000	1.63E-04
213		0.00	0.000	0.011	0.1025	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.63E-04
214		0.00	0.000	0.012	0.1021	0.0000	0.0000	3.39E-10	0.0000	0.0000	1.63E-04
215		0.00	0.000	0.014	0.1017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.014	0.1013	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.016	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.016	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.016	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.015	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.018	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.018	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.020	0.0980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.018	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.01	0.000	0.030	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.020	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.06	0.000	0.048	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.018	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.018	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.019	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.00	0.000	0.019	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.00	0.000	0.020	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.00	0.000	0.020	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.016	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.017	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.015	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.016	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.016	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.020	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.020	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.016	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.15	0.000	0.036	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.002	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.009	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.008	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.005	0.0926	0.0000	0.0000	2.69E-09	0.0000	0.0000	1.63E-04
280	0.27	0.000	0.040	0.0988	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.50	0.000	0.043	0.1114	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.106	0.1085	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.049	0.1071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.089	0.1047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.098	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.066	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.066	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.036	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.74	0.000	0.084	0.1156	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.63E-04
290	0.09	0.000	0.070	0.1162	0.0000	0.0000	2.08E-09	0.0000	0.0000	1.63E-04
291	0.05	0.000	0.095	0.1148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.083	0.1125	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.053	0.1111	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.062	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.068	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.063	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.055	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.081	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.031	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.051	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.17	0.000	0.073	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.06	0.000	0.069	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.054	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.047	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.043	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.039	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.04	0.000	0.060	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.032	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.08	0.000	0.064	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.031	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.029	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.028	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.027	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.016	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.011	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.009	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.009	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.008	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.007	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.007	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.007	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.18	0.000	0.038	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.011	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.12	0.000	0.046	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.20	0.000	0.050	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.19	0.000	0.047	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.08	0.000	0.050	0.1046	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.01	0.000	0.029	0.1042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.047	0.1029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.030	0.1020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.024	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.022	0.1008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.027	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.018	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.21	0.000	0.061	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.10	0.000	0.054	0.1050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.028	0.1043	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.036	0.1033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.022	0.1027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.021	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.018	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.024	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.027	0.1002	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.039	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.022	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.00	0.000	0.000	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.000	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.019	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.038	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.034	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 26			
	inches	cubic feet	percent
Precipitation	8.98	2,282,144.4	100.00
Runoff	0.120	30,489.0	1.34
Evapotranspiration	8.737	2,220,100.1	97.28
Drainage Collected from Layer 4	0.0000	1.9629	0.00
Percolation/Leakage through Layer 6	0.000000	0.0031	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.001306	331.8	0.01
Change in Water Storage	0.1229	31,221.6	1.37
Soil Water at Start of Year	1,027.4653	##########	11440.07
Soil Water at End of Year	1,027.5882	##########	11441.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 27

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.032	0.0951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.030	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.028	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.027	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.020	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.028	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.29	0.000	0.062	0.0978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.01	0.000	0.034	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.020	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.018	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.020	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.021	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.020	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.020	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.019	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.019	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.018	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.14	0.000	0.042	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.049	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.029	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.013	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.010	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.006	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.006	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.006	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.008	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.12	0.000	0.036	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.22	0.000	0.037	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.009	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.009	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.009	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.09	0.000	0.042	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.14	0.000	0.047	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.012	0.1006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.009	0.1003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	1.33	0.000	0.052	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.051	0.1014	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.62E-04
59		0.00	0.026	0.000	0.1336	0.0000	0.0000	6.21E-09	0.0000	0.0000	1.62E-04
60		0.00	0.000	0.035	0.1326	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.62E-04
61		0.00	0.000	0.092	0.1301	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.044	0.1288	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.106	0.1259	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.115	0.1227	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.055	0.1212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.069	0.1193	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.101	0.1165	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.174	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.158	0.1072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.102	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.048	0.1031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.033	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.084	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.046	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.064	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.063	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.27	0.000	0.089	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.01	0.000	0.054	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.043	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.040	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.037	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.032	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.035	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.028	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.018	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.04	0.000	0.034	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.01	0.000	0.013	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.23	0.000	0.046	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.13	0.000	0.054	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.14	0.000	0.053	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.053	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.024	0.0995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.021	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.022	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.023	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.023	0.0970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.023	0.0964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.022	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.022	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.022	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.022	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.020	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.021	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.020	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.021	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.024	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.17	0.000	0.057	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.014	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.016	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.016	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.23	0.000	0.047	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.014	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.014	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.014	0.0968	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.016	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.019	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.020	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.020	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.020	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.019	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.019	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.018	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.019	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.019	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.016	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.010	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.008	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.007	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.93E-09	0.0000	0.0000	1.62E-04
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.02	0.000	0.016	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.06	0.000	0.031	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.13	0.000	0.041	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.010	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.008	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.007	0.0921	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.62E-04
195	0.00	0.000	0.007	0.0919	0.0000	0.0000	9.99E-10	0.0000	0.0000	1.62E-04
196	0.00	0.000	0.007	0.0918	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.61E-04
197	0.00	0.000	0.006	0.0916	0.0000	0.0000	1.08E-09	0.0000	0.0000	1.61E-04
198	0.00	0.000	0.007	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.006	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.006	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.007	0.0909	0.0000	0.0000	3.69E-09	0.0000	0.0000	1.61E-04
202	0.00	0.000	0.006	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.006	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.006	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.05	0.000	0.033	0.0907	0.0000	0.0000	3.47E-09	0.0000	0.0000	1.61E-04
207	0.00	0.000	0.003	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.006	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.03	0.000	0.024	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.01	0.000	0.009	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.06	0.000	0.032	0.0909	0.0000	0.0000	1.38E-09	0.0000	0.0000	1.61E-04
222	0.00	0.000	0.003	0.0908	0.0000	0.0000	2.28E-13	0.0000	0.0000	1.61E-04
223	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.006	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.01	0.000	0.016	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.39	0.000	0.040	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.28	0.000	0.187	0.1024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.093	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.142	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.125	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.060	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.017	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.006	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.17	0.000	0.041	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.12	0.000	0.039	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.04	0.000	0.072	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.20	0.000	0.060	0.0990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.086	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.071	0.0946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.04	0.000	0.050	0.0943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.026	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.022	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.023	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.017	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.010	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.007	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.006	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.43	0.000	0.043	0.1016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.063	0.0999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.057	0.0983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.039	0.0972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.042	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.044	0.0948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.105	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.055	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.010	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.12	0.000	0.042	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.20	0.000	0.043	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.047	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.041	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.031	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.028	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.015	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.011	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.009	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.009	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.008	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.008	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.01	0.000	0.013	0.0905	0.0000	0.0000	3.96E-09	0.0000	0.0000	1.60E-04
292	0.02	0.000	0.020	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.007	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.04	0.000	0.029	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.007	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.31	0.000	0.040	0.0975	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.029	0.0967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.035	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.066	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.042	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.037	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.019	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.012	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.015	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.010	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.01	0.000	0.006	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.01	0.000	0.013	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.13	0.000	0.039	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.003	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.007	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.0923	0.0000	0.0000	1.86E-09	0.0000	0.0000	1.60E-04
342	*	0.00	0.000	0.000	0.0923	0.0000	0.0000	1.86E-09	0.0000	0.0000	1.60E-04

343	*	0.00	0.000	0.007	0.0921	0.0000	0.0000	1.66E-09	0.0000	0.0000	1.60E-04
344		0.00	0.000	0.005	0.0919	0.0000	0.0000	4.38E-09	0.0000	0.0000	1.60E-04
345		0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.005	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.005	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.01	0.000	0.015	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.12	0.000	0.037	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.01	0.000	0.012	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 27			
	inches	cubic feet	percent
Precipitation	6.59	1,675,388.5	100.00
Runoff	0.026	6,718.9	0.40
Evapotranspiration	6.718	1,707,107.6	101.89
Drainage Collected from Layer 4	0.0000	7.0095	0.00
Percolation/Leakage through Layer 6	0.000000	0.0119	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.002738	695.8	0.04
Change in Water Storage	-0.1540	-39,140.8	-2.34
Soil Water at Start of Year	1,027.5882	##########	15585.05
Soil Water at End of Year	1,027.4342	##########	15582.72
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 28

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.03	0.000	0.025	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.04	0.000	0.025	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.002	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.005	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.72	0.000	0.022	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.06	0.000	0.000	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.036	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.040	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.055	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.036	0.1055	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.100	0.1044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.040	0.1033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.052	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.074	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.04	0.000	0.081	0.0985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.02	0.000	0.097	0.0965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.056	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.055	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.037	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.046	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.032	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.25	0.000	0.050	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.01	0.000	0.000	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.062	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.081	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.009	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.011	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.010	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.10	0.000	0.042	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.25	0.000	0.042	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.058	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.067	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.024	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.023	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.26	0.000	0.059	0.0989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.056	0.0974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.041	0.0962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.034	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.077	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.056	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.06	0.000	0.060	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.019	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.016	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.013	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.02	0.000	0.023	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.12	0.000	0.043	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.006	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.012	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.011	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.010	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.010	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.009	0.0908	0.0000	0.0002	3.98E-09	0.0000	0.0000	1.60E-04
77	*	0.00	0.000	0.009	0.0906	0.0000	0.0000	1.19E-09	0.0000	0.0000	1.59E-04
78		0.00	0.000	0.009	0.0903	0.0000	0.0002	3.98E-09	0.0000	0.0000	1.59E-04
79		0.00	0.000	0.008	0.0901	0.0000	0.0000	1.19E-09	0.0000	0.0000	1.59E-04
80		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.0900	0.0000	0.0000	3.84E-09	0.0000	0.0000	1.59E-04
82		0.06	0.000	0.034	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.006	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.007	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.10	0.000	0.039	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.35	0.000	0.055	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.069	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.188	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.05	0.000	0.035	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.005	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.014	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.009	0.0927	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.59E-04
93		0.00	0.000	0.009	0.0924	0.0000	0.0000	1.07E-09	0.0000	0.0000	1.59E-04
94		0.00	0.000	0.007	0.0922	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.58E-04
95		0.00	0.000	0.007	0.0920	0.0000	0.0000	1.23E-09	0.0000	0.0000	1.58E-04
96	*	0.00	0.000	0.006	0.0919	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.58E-04
97		0.00	0.000	0.006	0.0917	0.0000	0.0000	1.31E-09	0.0000	0.0000	1.58E-04

98	0.00	0.000	0.006	0.0916	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.58E-04
99	0.00	0.000	0.006	0.0914	0.0000	0.0000	9.23E-10	0.0000	0.0000	1.58E-04
100	0.00	0.000	0.005	0.0913	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.57E-04
101	0.00	0.000	0.005	0.0911	0.0000	0.0000	5.58E-10	0.0000	0.0000	1.57E-04
102	0.00	0.000	0.005	0.0910	0.0000	0.0000	3.75E-09	0.0000	0.0000	1.57E-04
103	0.00	0.000	0.005	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.005	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.005	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.005	0.0903	0.0000	0.0000	3.54E-09	0.0000	0.0000	1.57E-04
108	0.00	0.000	0.005	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.000	0.0900	0.0000	0.0000	3.39E-09	0.0000	0.0000	1.57E-04
113	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.04	0.000	0.028	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.01	0.000	0.014	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.16	0.000	0.038	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.02	0.000	0.016	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.01	0.000	0.014	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.009	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.009	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.011	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.012	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.012	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.006	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.005	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.004	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.005	0.0901	0.0000	0.0000	5.04E-09	0.0000	0.0000	1.57E-04
154	0.00	0.000	0.004	0.0900	0.0000	0.0000	4.18E-09	0.0000	0.0000	1.56E-04
155	0.00	0.000	0.001	0.0900	0.0000	0.0000	5.65E-10	0.0000	0.0000	1.56E-04
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.14	0.000	0.038	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.17	0.000	0.039	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.08	0.000	0.114	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.013	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.016	0.0949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.013	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.011	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.012	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.013	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.012	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.014	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.013	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.013	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.012	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.0913	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.56E-04
208	0.00	0.000	0.004	0.0912	0.0000	0.0000	1.67E-09	0.0000	0.0000	1.56E-04
209	0.00	0.000	0.004	0.0911	0.0000	0.0000	4.53E-09	0.0000	0.0000	1.56E-04
210	0.00	0.000	0.004	0.0909	0.0000	0.0000	3.26E-09	0.0000	0.0000	1.56E-04
211	0.00	0.000	0.004	0.0908	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.56E-04
212	0.00	0.000	0.005	0.0907	0.0000	0.0000	1.62E-09	0.0000	0.0000	1.55E-04
213	0.00	0.000	0.005	0.0906	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.55E-04
214	0.00	0.000	0.005	0.0904	0.0000	0.0000	2.75E-09	0.0000	0.0000	1.55E-04
215	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.38	0.000	0.040	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.11	0.000	0.184	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.07	0.000	0.115	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.074	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.04	0.000	0.068	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.030	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.039	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.023	0.0907	0.0000	0.0003	2.85E-09	0.0000	0.0000	1.55E-04
232	0.00	0.000	0.019	0.0902	0.0000	0.0000	2.14E-09	0.0000	0.0000	1.55E-04
233	0.00	0.000	0.004	0.0900	0.0000	0.0001	2.84E-09	0.0000	0.0000	1.55E-04
234	0.00	0.000	0.001	0.0900	0.0000	0.0000	1.69E-09	0.0000	0.0000	1.54E-04
235	0.00	0.000	0.002	0.0900	0.0000	0.0001	3.40E-09	0.0000	0.0000	1.54E-04
236	1.35	0.054	0.066	0.1241	0.0000	0.0000	1.03E-09	0.0000	0.0000	1.54E-04
237	0.00	0.000	0.130	0.1204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.079	0.1182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.127	0.1147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.123	0.1113	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.176	0.1064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.227	0.1001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.174	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.140	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.012	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.015	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.015	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.008	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	1.07	0.011	0.060	0.1176	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.047	0.1163	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.08	0.000	0.080	0.1164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.081	0.1142	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.047	0.1129	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.046	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.120	0.1082	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.150	0.1041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.01	0.000	0.172	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.198	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.099	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.030	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.02	0.000	0.017	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.92	0.001	0.051	0.1140	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.35	0.000	0.060	0.1221	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.058	0.1205	0.0000	0.0000	3.34E-09	0.0000	0.0000	1.54E-04
293	0.00	0.000	0.078	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.120	0.1150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.106	0.1120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.085	0.1097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.068	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.078	0.1056	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.114	0.1025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.065	0.1007	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.044	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.044	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.042	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.11	0.000	0.070	0.0982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.067	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.065	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.033	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	0.00	0.000	0.046	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.053	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.007	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	0.00	0.000	0.002	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.002	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.001	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	0.01	0.000	0.013	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.000	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.000	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.02	0.000	0.016	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 28			
	inches	cubic feet	percent
Precipitation	7.72	1,960,974.9	100.00
Runoff	0.066	16,815.5	0.86
Evapotranspiration	7.709	1,958,876.7	99.89
Drainage Collected from Layer 4	0.0009	218.6	0.01
Percolation/Leakage through Layer 6	0.000000	0.0229	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.005643	1,433.9	0.07
Change in Water Storage	-0.0644	-16,369.7	-0.83
Soil Water at Start of Year	1,027.4342	##########	13313.33
Soil Water at End of Year	1,027.3697	##########	13312.49
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 29

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6 Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.000	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.17	0.000	0.037	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.32	0.000	0.000	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.058	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.047	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.016	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.021	0.0987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.031	0.0979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.045	0.0966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.036	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			1.28	0.042	0.070	0.1282	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.01	0.000	0.056	0.1270	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.04	0.000	0.073	0.1262	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.051	0.1248	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.069	0.1229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.093	0.1203	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.059	0.1187	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.43	0.000	0.087	0.1281	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.049	0.1268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.04	0.000	0.065	0.1263	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.037	0.1252	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.054	0.1238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.034	0.1228	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.025	0.1221	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.035	0.1211	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.045	0.1199	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.055	0.1183	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.084	0.1160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.038	0.1150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.044	0.1138	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.046	0.1125	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.034	0.1116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.045	0.1103	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.031	0.1094	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.043	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.037	0.1072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.03	0.000	0.048	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.026	0.1061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.036	0.1051	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.1051	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.053	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.055	0.1021	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.025	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.000	0.1014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.052	0.1000	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.14	0.000	0.064	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.46	0.000	0.000	0.1011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.063	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.01	0.000	0.043	0.1121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.05	0.000	0.063	0.1118	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.41	0.000	0.091	0.1206	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.11	0.000	0.082	0.1213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.094	0.1187	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.081	0.1164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.039	0.1154	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.082	0.1131	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.074	0.1110	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.113	0.1079	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.143	0.1039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.155	0.0996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.204	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.064	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.024	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.008	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.40	0.000	0.051	0.1010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.08	0.000	0.134	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.151	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.02	0.000	0.104	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.02	0.000	0.050	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.10	0.000	0.049	0.0937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.25	0.000	0.051	0.0992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.076	0.0971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.066	0.0953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.087	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.035	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.031	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.008	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	*	0.00	0.000	0.001	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.03	0.000	0.028	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.005	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.004	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.07	0.000	0.039	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.007	0.0911	0.0000	0.0002	4.36E-09	0.0000	0.0000	1.54E-04
99	0.00	0.000	0.011	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.010	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.008	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.007	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.000	0.0900	0.0000	0.0000	2.14E-09	0.0000	0.0000	1.54E-04
107	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.47	0.000	0.040	0.1019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.095	0.0993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.122	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.06	0.000	0.159	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.08	0.000	0.080	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.017	0.0928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.027	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.019	0.0915	0.0000	0.0000	2.82E-09	0.0000	0.0000	1.54E-04
116	0.00	0.000	0.017	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.014	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.013	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.13	0.000	0.047	0.0927	0.0000	0.0000	1.13E-09	0.0000	0.0000	1.53E-04
120	0.00	0.000	0.007	0.0925	0.0000	0.0000	1.97E-09	0.0000	0.0000	1.53E-04
121	0.00	0.000	0.013	0.0922	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.53E-04
122	0.00	0.000	0.011	0.0919	0.0000	0.0000	7.56E-10	0.0000	0.0000	1.53E-04
123	0.00	0.000	0.010	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.009	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.009	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.008	0.0909	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.53E-04
127	0.00	0.000	0.008	0.0906	0.0000	0.0000	9.59E-10	0.0000	0.0000	1.53E-04
128	0.00	0.000	0.008	0.0904	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.52E-04
129	0.00	0.000	0.008	0.0902	0.0000	0.0000	7.10E-10	0.0000	0.0000	1.52E-04
130	0.00	0.000	0.005	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.0900	0.0000	0.0000	3.47E-09	0.0000	0.0000	1.52E-04
134		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.03	0.000	0.022	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.002	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.13	0.000	0.038	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.002	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.11	0.000	0.040	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.77	0.000	0.091	0.1135	0.0000	0.0000	1.09E-09	0.0000	0.0000	1.52E-04
217	0.27	0.000	0.111	0.1179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.65	0.000	0.192	0.1307	0.0000	0.0000	3.79E-10	0.0000	0.0000	1.52E-04
219	0.06	0.000	0.115	0.1292	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.18	0.000	0.252	0.1271	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.179	0.1222	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.151	0.1180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.171	0.1132	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.05	0.000	0.181	0.1096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.183	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.212	0.0986	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.103	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.151	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.011	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.015	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.013	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.009	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.008	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.10	0.000	0.040	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.009	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.008	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.008	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.008	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.008	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.007	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.007	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.001	0.0900	0.0000	0.0000	3.93E-09	0.0000	0.0000	1.52E-04
252	0.01	0.000	0.007	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.13	0.000	0.040	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.003	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.008	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.007	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.007	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.006	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.006	0.0914	0.0000	0.0000	2.84E-09	0.0000	0.0000	1.52E-04
261	0.19	0.000	0.043	0.0955	0.0000	0.0000	8.42E-10	0.0000	0.0000	1.51E-04
262	0.00	0.000	0.012	0.0952	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.51E-04
263	0.00	0.000	0.012	0.0948	0.0000	0.0000	5.04E-10	0.0000	0.0000	1.51E-04
264	0.00	0.000	0.011	0.0945	0.0000	0.0000	3.94E-09	0.0000	0.0000	1.51E-04
265	0.00	0.000	0.012	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.014	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.014	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.014	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.014	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.014	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.013	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.007	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.006	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.005	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.004	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.004	0.0909	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.51E-04
279	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.004	0.0907	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.51E-04
281	0.00	0.000	0.004	0.0905	0.0000	0.0000	9.11E-11	0.0000	0.0000	1.51E-04
282	0.00	0.000	0.004	0.0904	0.0000	0.0000	3.87E-09	0.0000	0.0000	1.50E-04
283	0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.004	0.0902	0.0000	0.0000	3.83E-09	0.0000	0.0000	1.50E-04
285	0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.003	0.0900	0.0000	0.0000	3.69E-09	0.0000	0.0000	1.50E-04
287	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.02	0.000	0.016	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.16	0.000	0.039	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.06	0.000	0.031	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.006	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.008	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.008	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.008	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.009	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.010	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.010	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.010	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.006	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.004	0.0917	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.50E-04
309		0.08	0.000	0.037	0.0930	0.0000	0.0000	2.19E-09	0.0000	0.0000	1.50E-04
310		0.00	0.000	0.002	0.0929	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.50E-04
311		0.00	0.000	0.007	0.0927	0.0000	0.0000	3.55E-10	0.0000	0.0000	1.49E-04
312		0.00	0.000	0.005	0.0926	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.49E-04
313	*	0.00	0.000	0.005	0.0924	0.0000	0.0000	3.51E-10	0.0000	0.0000	1.49E-04
314	*	0.00	0.000	0.000	0.0924	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.49E-04
315	*	0.00	0.000	0.000	0.0924	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.49E-04
316	*	0.00	0.000	0.000	0.0924	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.49E-04
317		0.00	0.000	0.007	0.0922	0.0000	0.0000	5.08E-09	0.0000	0.0000	1.49E-04
318		0.00	0.000	0.003	0.0921	0.0000	0.0000	2.08E-10	0.0000	0.0000	1.48E-04
319		0.00	0.000	0.004	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.0918	0.0000	0.0000	6.24E-09	0.0000	0.0000	1.48E-04
324	*	0.00	0.000	0.000	0.0918	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.48E-04
325	*	0.00	0.000	0.000	0.0918	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.48E-04
326	*	0.00	0.000	0.000	0.0918	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.48E-04
327	*	0.00	0.000	0.000	0.0918	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.48E-04
328		0.00	0.000	0.004	0.0917	0.0000	0.0000	1.11E-09	0.0000	0.0000	1.48E-04
329	*	0.00	0.000	0.000	0.0917	0.0000	0.0000	2.60E-09	0.0000	0.0000	1.47E-04
330		0.00	0.000	0.003	0.0916	0.0000	0.0000	1.15E-10	0.0000	0.0000	1.47E-04
331		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.0912	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.47E-04
335		0.00	0.000	0.003	0.0911	0.0000	0.0000	1.68E-09	0.0000	0.0000	1.47E-04
336		0.00	0.000	0.003	0.0910	0.0000	0.0000	3.35E-09	0.0000	0.0000	1.47E-04
337		0.00	0.000	0.003	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.003	0.0909	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.47E-04
339		0.00	0.000	0.003	0.0908	0.0000	0.0000	5.20E-10	0.0000	0.0000	1.47E-04
340		0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.003	0.0906	0.0000	0.0000	1.49E-09	0.0000	0.0000	1.46E-04
342		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.003	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.003	0.0904	0.0000	0.0000	9.40E-10	0.0000	0.0000	1.46E-04
345		0.00	0.000	0.003	0.0903	0.0000	0.0000	1.09E-09	0.0000	0.0000	1.46E-04
346		0.00	0.000	0.003	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.003	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.02	0.000	0.018	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.002	0.0901	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.46E-04
350		0.00	0.000	0.003	0.0901	0.0000	0.0000	7.25E-10	0.0000	0.0000	1.46E-04
351		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 29			
	inches	cubic feet	percent
Precipitation	8.27	2,100,851.0	100.00
Runoff	0.042	10,677.8	0.51
Evapotranspiration	8.229	2,091,080.0	99.53
Drainage Collected from Layer 4	0.0003	65.6	0.00
Percolation/Leakage through Layer 6	0.000000	0.0376	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.008240	2,093.7	0.10
Change in Water Storage	-0.0121	-3,066.0	-0.15
Soil Water at Start of Year	1,027.3697	##########	12426.14
Soil Water at End of Year	1,027.3577	##########	12425.99
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 30

Column key: Head #1: drainage from Layer 5

Title: MOHAVE VALLEY LANDFILL - S2

Drain #1: drainage from Layer 4

Simulated On: 12/11/2025 10:20

Leak #1: leakage thru Layer 6

Leak #2: leakage thru Layer 7

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.16	0.000	0.038	0.0934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.06	0.000	0.031	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.009	0.0941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.006	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.006	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.0938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.006	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.006	0.0935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.006	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.007	0.0931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.007	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.88	0.000	0.045	0.1160	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.46E-04
16			0.00	0.000	0.035	0.1150	0.0000	0.0000	5.61E-10	0.0000	0.0000	1.46E-04
17			0.00	0.000	0.023	0.1144	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.034	0.1134	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.058	0.1118	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.049	0.1105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.049	0.1091	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.027	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.022	0.1077	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.34	0.000	0.069	0.1153	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.044	0.1141	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.040	0.1130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.027	0.1122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.032	0.1113	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.040	0.1102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.048	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.040	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.074	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.093	0.1032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.035	0.1022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.045	0.1009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.056	0.0994	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.060	0.0977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.051	0.0963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.07	0.000	0.079	0.0959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.22	0.000	0.084	0.0998	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.063	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.042	0.0969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.052	0.0955	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.029	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.023	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.000	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.10	0.000	0.059	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.000	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.037	0.0940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.035	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.018	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.015	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.011	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.010	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.012	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.010	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.010	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.009	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.02	0.000	0.027	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.49	0.000	0.043	0.1026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.042	0.1015	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.036	0.1005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.050	0.0991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.065	0.0973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.056	0.0957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.088	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.067	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.038	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.005	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	*	0.10	0.000	0.096	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	*	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.01	0.000	0.012	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.12	0.000	0.039	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.002	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.005	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.005	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.000	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	*	0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.005	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.0913	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.46E-04
121		0.00	0.000	0.005	0.0912	0.0000	0.0000	3.84E-11	0.0000	0.0000	1.45E-04
122		0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.005	0.0910	0.0000	0.0000	1.09E-09	0.0000	0.0000	1.45E-04
124		0.00	0.000	0.005	0.0908	0.0000	0.0000	3.72E-09	0.0000	0.0000	1.45E-04
125		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.004	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.004	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.004	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.03	0.000	0.022	0.0902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.07	0.000	0.034	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.03	0.000	0.024	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.002	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.0912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.0910	0.0000	0.0000	1.35E-09	0.0000	0.0000	1.45E-04
193	0.06	0.000	0.034	0.0919	0.0000	0.0000	3.67E-09	0.0000	0.0000	1.45E-04
194	0.19	0.000	0.040	0.0960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.007	0.0958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.007	0.0956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.007	0.0954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.007	0.0952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.007	0.0950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.009	0.0947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.010	0.0945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.010	0.0942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.011	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.012	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.012	0.0930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.011	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.011	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.011	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.012	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.012	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.01	0.000	0.013	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.002	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.004	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.0904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.003	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.43	0.000	0.042	0.1012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.054	0.0997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.057	0.0981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.072	0.0961	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.124	0.0926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.070	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.12	0.000	0.065	0.0924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.015	0.0919	0.0000	0.0000	3.40E-09	0.0000	0.0000	1.45E-04
231	0.00	0.000	0.021	0.0914	0.0000	0.0000	3.26E-10	0.0000	0.0000	1.45E-04
232	0.00	0.000	0.017	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.015	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.013	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.05	0.000	0.032	0.0905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.005	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.009	0.0901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.002	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.001	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.04	0.000	0.026	0.0903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.10	0.000	0.039	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.003	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.006	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.006	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.005	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.005	0.0914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.15	0.000	0.042	0.0944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.04	0.000	0.028	0.0948	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.44E-04
279		0.00	0.000	0.010	0.0945	0.0000	0.0000	3.42E-10	0.0000	0.0000	1.44E-04
280		0.00	0.000	0.010	0.0942	0.0000	0.0000	3.95E-09	0.0000	0.0000	1.44E-04
281		0.00	0.000	0.010	0.0939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.012	0.0936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.013	0.0933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.013	0.0929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.013	0.0925	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.013	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.007	0.0920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.006	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.005	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.004	0.0916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.004	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.004	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.004	0.0912	0.0000	0.0000	1.56E-09	0.0000	0.0000	1.44E-04
294		0.00	0.000	0.004	0.0911	0.0000	0.0000	3.39E-09	0.0000	0.0000	1.44E-04
295		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.04	0.000	0.028	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.004	0.0910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	*	0.00	0.000	0.004	0.0909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.004	0.0908	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.004	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.004	0.0906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.004	0.0905	0.0000	0.0000	1.35E-09	0.0000	0.0000	1.44E-04
306		0.00	0.000	0.004	0.0904	0.0000	0.0000	3.71E-09	0.0000	0.0000	1.44E-04
307		0.11	0.000	0.040	0.0924	0.0000	0.0000	9.07E-10	0.0000	0.0000	1.43E-04

308		0.00	0.000	0.005	0.0923	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.005	0.0922	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.004	0.0921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.004	0.0919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.004	0.0918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.004	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.003	0.0917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.003	0.0916	0.0000	0.0000	3.73E-09	0.0000	0.0000	1.43E-04
316		0.00	0.000	0.003	0.0915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.0914	0.0000	0.0000	3.51E-09	0.0000	0.0000	1.43E-04
318		0.00	0.000	0.003	0.0913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.003	0.0912	0.0000	0.0000	3.49E-09	0.0000	0.0000	1.43E-04
320		0.00	0.000	0.003	0.0911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.003	0.0910	0.0000	0.0000	2.27E-09	0.0000	0.0000	1.43E-04
322	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	3.80E-09	0.0000	0.0000	1.43E-04
323	*	0.00	0.000	0.000	0.0910	0.0000	0.0000	3.28E-09	0.0000	0.0000	1.43E-04
324		0.00	0.000	0.003	0.0909	0.0000	0.0000	1.70E-09	0.0000	0.0000	1.43E-04
325		0.00	0.000	0.003	0.0908	0.0000	0.0000	5.14E-09	0.0000	0.0000	1.42E-04
326		0.00	0.000	0.003	0.0908	0.0000	0.0000	1.04E-09	0.0000	0.0000	1.42E-04
327		0.00	0.000	0.003	0.0907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.003	0.0906	0.0000	0.0000	1.23E-09	0.0000	0.0000	1.42E-04
329		0.00	0.000	0.003	0.0905	0.0000	0.0000	2.83E-09	0.0000	0.0000	1.42E-04
330	*	0.17	0.000	0.032	0.0911	0.0000	0.0000	5.07E-10	0.0000	0.0000	1.42E-04
331	*	0.27	0.000	0.017	0.0916	0.0000	0.0000	5.67E-10	0.0000	0.0000	1.42E-04
332	*	0.00	0.000	0.025	0.0921	0.0000	0.0000	3.75E-10	0.0000	0.0000	1.42E-04
333	*	0.06	0.000	0.018	0.0927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.02	0.000	0.013	0.0932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.36	0.000	0.000	0.1120	0.0000	0.0000	3.97E-09	0.0000	0.0000	1.41E-04
336	*	0.00	0.000	0.000	0.1120	0.0000	0.0000	6.80E-09	0.0000	0.0000	1.41E-04
337	*	0.00	0.000	0.000	0.1120	0.0000	0.0000	5.43E-10	0.0000	0.0000	1.41E-04
338		0.00	0.000	0.017	0.1115	0.0000	0.0000	4.77E-09	0.0000	0.0000	1.41E-04
339		0.00	0.000	0.027	0.1107	0.0000	0.0000	2.90E-10	0.0000	0.0000	1.41E-04
340		0.00	0.000	0.018	0.1102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.026	0.1095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.021	0.1089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.02	0.000	0.043	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.06	0.000	0.048	0.1087	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.015	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.030	0.1075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.023	0.1068	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.014	0.1064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.025	0.1057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.021	0.1052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.023	0.1045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.017	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.1040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.015	0.1036	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.014	0.1033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.15	0.000	0.038	0.1038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.12	0.000	0.058	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.01	0.000	0.006	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.01	0.000	0.014	0.1083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.017	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.000	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.1078	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 30			
	inches	cubic feet	percent
Precipitation	5.31	1,350,531.8	100.00
Runoff	0.000	95.4	0.01
Evapotranspiration	4.674	1,187,689.5	87.94
Drainage Collected from Layer 4	0.0000	3.1357	0.00
Percolation/Leakage through Layer 6	0.000000	0.0224	0.00
Average Head on Top of Layer 5	0.0000	---	---

Percolation/Leakage through Layer 7	0.005304	1,347.6	0.10
Change in Water Storage	0.6352	161,396.1	11.95
Soil Water at Start of Year	1,027.3577	##########	19329.54
Soil Water at End of Year	1,027.9928	##########	19341.49
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: MOHAVE VALLEY LANDFILL - S2
Simulated on: 12/11/2025 10:23

	Average Annual Totals for Years 1 - 30*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	6.05	[1.96]	1,537,902.8	100.00
Runoff	0.025	[0.036]	6,428.3	0.42
Evapotranspiration	6.017	[1.902]	1,528,826.1	99.41
Subprofile1				
Lateral drainage collected from Layer 4	0.0002	[0.0003]	55.9	0.00
Percolation/leakage through Layer 6	0.000000	[0]	0.0201	0.00
Average Head on Top of Layer 5	0.0000	[0]	---	---
Subprofile2				
Percolation/leakage through Layer 7	0.011609	[0.010135]	2,949.8	0.19
Water storage				
Change in water storage	-0.0014	[0.4891]	-357.3	-0.02

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: MOHAVE VALLEY LANDFILL - S2
Simulated on: 12/11/2025 10:23

	Peak Values for Years 1 - 30*		
	(inches)		(cubic feet)
Precipitation	1.39		352,466.0
Runoff	0.100		25,297.8
Subprofile1			
Drainage collected from Layer 4	0.0007		189.6
Percolation/leakage through Layer 6	0.000000		0.0017
Average head on Layer 5	0.0001		---
Maximum head on Layer 5	0.0002		---
Location of maximum head in Layer 4	0.00	(feet from drain)	
Subprofile2			
Percolation/leakage through Layer 7	0.001119		284.4
Other Parameters			
Snow water	1.7013		432,309.9
Maximum vegetation soil water	0.1868	(vol/vol)	
Minimum vegetation soil water	0.0900	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: MOHAVE VALLEY LANDFILL - S2
Simulated on: 12/11/2025 10:24
Simulation period: 30 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	2.0287	0.1691
2	1,018.0118	0.2905
3	5.5680	0.2320
4	0.0030	0.0100
5	0.0000	0.0000
6	0.1875	0.7500
7	2.1939	0.1828
Snow water	0.0000	---

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: MOHAVE VALLEY LANDFILL - S3 **Simulated On:** 12/11/2025 10:34

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)

L - Loam

Material Texture Number 8

Thickness	=	6	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.116	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 2

Type 1 - Vertical Percolation Layer

Barrier Soil

Material Texture Number 43

Thickness	=	18	inches
Porosity	=	0.427	vol/vol
Field Capacity	=	0.418	vol/vol
Wilting Point	=	0.367	vol/vol
Initial Soil Water Content	=	0.367	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-05	cm/sec

Layer 3

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.1166	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 4

Type 1 - Vertical Percolation Layer (Waste)

Municipal Solid Waste (MSW) (900 pcy)

Material Texture Number 18

Thickness	=	3504	inches
Porosity	=	0.671	vol/vol
Field Capacity	=	0.292	vol/vol
Wilting Point	=	0.077	vol/vol
Initial Soil Water Content	=	0.292	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-03	cm/sec

Layer 5

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	24	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol

Initial Soil Water Content	=	0.232	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Layer 6

Type 2 - Lateral Drainage Layer

Drainage Net (0.5 cm)

Material Texture Number 20

Thickness	=	0.3	inches
Porosity	=	0.85	vol/vol
Field Capacity	=	0.01	vol/vol
Wilting Point	=	0.005	vol/vol
Initial Soil Water Content	=	0.01	vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E+01	cm/sec
Slope	=	4.5	%
Drainage Length	=	300	ft

Layer 7

Type 4 - Flexible Membrane Liner

HDPE Membrane

Material Texture Number 35

Thickness	=	0.06	inches
Effective Sat. Hyd. Conductivity	=	2.00E-13	cm/sec
FML Pinhole Density	=	5	Holes/Acre
FML Installation Defects	=	1	Holes/Acre
FML Placement Quality	=	3	Good

Layer 8

Type 3 - Barrier Soil Liner

Bentonite (High)

Material Texture Number 17

Thickness	=	0.25	inches
Porosity	=	0.75	vol/vol
Field Capacity	=	0.747	vol/vol
Wilting Point	=	0.4	vol/vol
Initial Soil Water Content	=	0.75	vol/vol
Effective Sat. Hyd. Conductivity	=	3.00E-09	cm/sec

Layer 9

Type 1 - Vertical Percolation Layer

L - Loam

Material Texture Number 8

Thickness	=	12	inches
Porosity	=	0.463	vol/vol
Field Capacity	=	0.232	vol/vol
Wilting Point	=	0.116	vol/vol
Initial Soil Water Content	=	0.2138	vol/vol
Effective Sat. Hyd. Conductivity	=	3.70E-04	cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	77	
Fraction of Area Allowing Runoff	=	100	%
Area projected on a horizontal plane	=	70	acres
Evaporative Zone Depth	=	36	inches
Initial Water in Evaporative Zone	=	8.701	inches
Upper Limit of Evaporative Storage	=	16.02	inches
Lower Limit of Evaporative Storage	=	8.694	inches

Initial Snow Water	=	0	inches
Initial Water in Layer Materials	=	1040.194	inches
Total Initial Water	=	1040.194	inches
Total Subsurface Inflow	=	0	inches/year

Note: SCS Runoff Curve Number was User-Specified.

Evapotranspiration and Weather Data

Station Latitude	=	35.01	Degrees
Maximum Leaf Area Index	=	1.2	
Start of Growing Season (Julian Date)	=	15	days
End of Growing Season (Julian Date)	=	347	days
Average Wind Speed	=	9	mph
Average 1st Quarter Relative Humidity	=	45	%
Average 2nd Quarter Relative Humidity	=	18	%
Average 3rd Quarter Relative Humidity	=	31	%
Average 4th Quarter Relative Humidity	=	55	%

Note: Evapotranspiration data was obtained for FORT MOHAVE, Arizona

Normal Mean Monthly Precipitation (inches)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
0.922906	1.050135	0.528268	0.261583	0.070908	0.028188
0.303117	0.814696	0.517097	0.533354	0.458135	0.563967

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Normal Mean Monthly Temperature (Degrees Fahrenheit)

Jan/Jul	Feb/Aug	Mar/Sep	Apr/Oct	May/Nov	Jun/Dec
46.7	50.8	59.4	70	80.2	92.7
96.8	93.8	87.6	74	60.8	52

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 35.01/-114.57

Daily Output for Year 1

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8

Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.65	0.000	0.024	0.2592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.16	0.000	0.096	0.2610	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.16	0.000	0.067	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.03	0.000	0.066	0.2624	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.12	0.000	0.113	0.2627	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.01	0.000	0.077	0.2608	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.084	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.063	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.078	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.099	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.129	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.107	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.084	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			1.13	0.000	0.079	0.2720	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.081	0.2698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.069	0.2679	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.2679	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.090	0.2654	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.104	0.2625	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.135	0.2587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.185	0.2536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.189	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.148	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.070	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.75	0.000	0.040	0.2621	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.100	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.107	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.064	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.086	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.129	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.138	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.080	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.33	0.000	0.049	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.82	0.000	0.032	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.052	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.035	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.056	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.009	0.2677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.063	0.2660	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.000	0.2660	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.084	0.2637	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.155	0.2594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.158	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.192	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.192	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.056	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.49	0.000	0.027	0.2554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.108	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.141	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.159	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.043	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.014	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.11	0.000	0.108	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.01	0.000	0.006	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.25	0.000	0.006	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.010	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.010	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.010	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.011	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.012	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.014	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.014	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.014	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.014	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.013	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.013	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.014	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.015	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.013	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.013	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.01	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.02	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.03	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.02	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.16	0.000	0.006	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.008	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.008	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.02	0.000	0.012	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.01	0.000	0.012	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.007	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.007	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.007	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.007	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.008	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.009	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.011	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.012	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.01	0.000	0.015	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.01	0.000	0.015	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.011	0.2437	0.0000	0.0000	6.76E-10	0.0000	0.0000	1.27E-03

238	0.00	0.000	0.010	0.2434	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.26E-03
239	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.003	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.26E-03
245	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.38	0.000	0.007	0.2527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.250	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.009	0.2455	0.0000	0.0000	1.05E-09	0.0000	0.0000	1.25E-03
253	0.00	0.000	0.011	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.010	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.04	0.000	0.013	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.009	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.01	0.000	0.012	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	1.35	0.000	0.013	0.2811	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.18	0.000	0.275	0.2784	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.12	0.000	0.398	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.02	0.000	0.354	0.2613	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.327	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.240	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.099	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.016	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.22	0.000	0.007	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.083	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.012	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.017	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.017	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.016	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.016	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.016	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.010	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.007	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.32	0.000	0.007	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.049	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.057	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.078	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.090	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.049	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.070	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.050	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.019	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.01	0.000	0.012	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.14	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.020	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.011	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.012	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.008	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.008	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.01	0.000	0.011	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.21	0.000	0.050	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	*	0.05	0.000	0.029	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.29	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.04	0.000	0.030	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.06	0.000	0.000	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.030	0.2577	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.01	0.000	0.061	0.2562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.19	0.000	0.090	0.2591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.052	0.2576	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.035	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.02	0.000	0.050	0.2557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.23	0.000	0.058	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.078	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.094	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.074	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.044	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.047	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.066	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.042	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.075	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.079	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.049	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	9.36	2,378,312.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	9.335	2,372,041.3	99.74
Drainage Collected from Layer 6	0.0000	4.2024	0.00
Percolation/Leakage through Layer 8	0.000000	0.0006	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.005042	1,281.1	0.05
Change in Water Storage	0.0196	4,986.3	0.21
Soil Water at Start of Year	1,040.1936	##########	11113.47
Soil Water at End of Year	1,040.2132	##########	11113.68
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 2

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8

Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.34	0.000	0.049	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.31	0.000	0.000	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.07	0.000	0.048	0.2596	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.061	0.2579	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.049	0.2566	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.051	0.2551	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.053	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.071	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.064	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.102	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.085	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.060	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.016	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.01	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.14	0.000	0.007	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.003	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.012	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.014	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.008	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.008	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.006	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.006	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.005	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.10	0.000	0.009	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.31	0.000	0.054	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.055	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.03	0.000	0.042	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.05	0.000	0.116	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.089	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.016	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.017	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.015	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.015	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.015	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.014	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.014	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.016	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.006	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		1.14	0.000	0.013	0.2742	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.13	0.000	0.092	0.2747	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.147	0.2712	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.099	0.2684	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.158	0.2640	0.0000	0.0000	1.34E-09	0.0000	0.0000	1.24E-03
85		0.00	0.000	0.166	0.2595	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.23E-03
86		0.00	0.000	0.201	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.236	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.145	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.014	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	*	0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.12	0.000	0.008	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.004	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.013	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.009	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.009	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.008	0.2440	0.0001	0.0010	3.45E-09	0.0000	0.0000	1.22E-03
117		0.00	0.000	0.007	0.2438	0.0000	0.0001	6.80E-10	0.0000	0.0000	1.22E-03
118		0.00	0.000	0.008	0.2436	0.0001	0.0008	2.30E-09	0.0000	0.0000	1.21E-03
119		0.33	0.000	0.012	0.2524	0.0000	0.0000	6.74E-10	0.0000	0.0000	1.20E-03
120		0.06	0.000	0.207	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.018	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.021	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.020	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.019	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.019	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.019	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.018	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.018	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	*	0.00	0.000	0.017	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.006	0.2430	0.0000	0.0002	2.95E-09	0.0000	0.0000	1.19E-03

133		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.004	0.2417	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.18E-03
143		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.07	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.03	0.000	0.008	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.002	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.004	0.2432	0.0000	0.0000	6.88E-10	0.0000	0.0000	1.18E-03
198	0.00	0.000	0.004	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.17E-03
199	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.2429	0.0000	0.0000	6.49E-10	0.0000	0.0000	1.16E-03
201	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.2426	0.0000	0.0000	1.76E-09	0.0000	0.0000	1.15E-03
204	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.2424	0.0000	0.0000	6.88E-10	0.0000	0.0000	1.15E-03
206	0.00	0.000	0.003	0.2423	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.14E-03
207	0.03	0.000	0.008	0.2428	0.0000	0.0000	6.89E-10	0.0000	0.0000	1.13E-03
208	0.00	0.000	0.004	0.2427	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.13E-03
209	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.004	0.2416	0.0000	0.0000	6.46E-10	0.0000	0.0000	1.12E-03
221	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.58	0.000	0.011	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.171	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.194	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.160	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.027	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.24	0.000	0.007	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.013	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.014	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.014	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.016	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.017	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.016	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.017	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.015	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.016	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.016	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.08	0.000	0.020	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.004	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.012	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.006	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.01	0.000	0.008	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.004	0.2429	0.0000	0.0000	6.71E-10	0.0000	0.0000	1.11E-03
290		0.18	0.000	0.008	0.2478	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.11E-03
291		0.00	0.000	0.069	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.011	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.013	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.013	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.010	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.003	0.2432	0.0000	0.0000	6.74E-10	0.0000	0.0000	1.10E-03
303		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.003	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.09E-03
306		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	*	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.10	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.001	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.003	0.2430	0.0000	0.0000	4.59E-10	0.0000	0.0000	1.09E-03
355		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 2			
	inches	cubic feet	percent
Precipitation	4.45	1,131,979.7	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.454	1,131,704.8	99.98
Drainage Collected from Layer 6	0.0022	557.8	0.05
Percolation/Leakage through Layer 8	0.000000	0.0053	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.025515	6,483.3	0.57
Change in Water Storage	-0.0266	-6,766.2	-0.60
Soil Water at Start of Year	1,040.2132	##########	23350.08
Soil Water at End of Year	1,040.1866	##########	23349.48
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 3

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8

Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.002	0.2421	0.0000	0.0000	6.48E-10	0.0000	0.0000	1.08E-03
5			0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.002	0.2420	0.0000	0.0000	5.71E-10	0.0000	0.0000	1.07E-03
7			0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.03	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.21	0.000	0.006	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.64	0.000	0.052	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.46	0.000	0.048	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.02	0.000	0.000	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.062	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2655	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.109	0.2711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.096	0.2685	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.133	0.2647	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.082	0.2625	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.125	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.105	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.133	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.094	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.124	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.074	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.077	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.012	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.37	0.000	0.008	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.072	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.109	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.099	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.049	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.024	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.57	0.000	0.023	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.20	0.000	0.061	0.2609	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.079	0.2587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.113	0.2555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.154	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.173	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.122	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.033	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.009	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.02	0.000	0.012	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.03	0.000	0.011	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.007	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.011	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.010	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.01	0.000	0.009	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.23	0.000	0.008	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.014	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.014	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.014	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.016	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.017	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.017	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.017	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.017	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.017	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.016	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.007	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.14	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.07	0.000	0.007	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.010	0.2475	0.0000	0.0000	8.24E-10	0.0000	0.0000	1.07E-03
103		0.00	0.000	0.010	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.011	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.011	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.013	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.015	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.015	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.015	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.015	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.014	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.015	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.015	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.011	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.05	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.13	0.000	0.007	0.2462	0.0000	0.0000	8.07E-10	0.0000	0.0000	1.06E-03
127		0.00	0.000	0.002	0.2461	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.05E-03
128		0.00	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.009	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.009	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	*	0.00	0.000	0.010	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.013	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.014	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.015	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.006	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.005	0.2422	0.0000	0.0000	6.47E-10	0.0000	0.0000	1.05E-03
146	0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.01	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.01	0.000	0.007	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.002	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.24	0.000	0.010	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.150	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.015	0.2456	0.0000	0.0000	6.72E-10	0.0000	0.0000	1.04E-03
196	0.00	0.000	0.014	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.016	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.018	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.020	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.016	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.2426	0.0000	0.0000	6.73E-10	0.0000	0.0000	1.04E-03
206	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.01	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	8.39E-10	0.0000	0.0000	1.03E-03
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.36	0.000	0.007	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.11	0.000	0.065	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.098	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.01	0.000	0.171	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.10	0.000	0.090	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.029	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.028	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.014	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.015	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.012	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.011	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.05	0.000	0.016	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.008	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.009	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.008	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.008	0.2422	0.0000	0.0001	6.80E-10	0.0000	0.0000	1.03E-03
310		0.00	0.000	0.008	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.003	0.2415	0.0000	0.0000	6.90E-10	0.0000	0.0000	1.02E-03
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	1.01E-03
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.14	0.000	0.009	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.013	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.014	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.008	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.008	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.006	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.006	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	1.80E-09	0.0000	0.0000	1.01E-03
342		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.01	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 3			
	inches	cubic feet	percent
Precipitation	4.32	1,096,884.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.346	1,104,354.9	100.68
Drainage Collected from Layer 6	0.0001	34.5	0.00
Percolation/Leakage through Layer 8	0.000000	0.0022	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.013565	3,446.7	0.31
Change in Water Storage	-0.0431	-10,951.9	-1.00
Soil Water at Start of Year	1,040.1866	##########	24096.57
Soil Water at End of Year	1,040.1435	##########	24095.57
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 4

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.01	0.000	0.006	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.09	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.001	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.001	0.2444	0.0000	0.0000	6.89E-10	0.0000	0.0000	1.00E-03
35		0.00	0.000	0.006	0.2442	0.0000	0.0000	4.44E-16	0.0000	0.0000	9.97E-04
36		0.00	0.000	0.005	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.004	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.004	0.2438	0.0000	0.0000	6.73E-10	0.0000	0.0000	9.92E-04
40		0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.02	0.000	0.008	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.001	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.34	0.000	0.008	0.2526	0.0000	0.0000	6.87E-10	0.0000	0.0000	9.87E-04
49		0.00	0.000	0.080	0.2504	0.0000	0.0000	4.44E-16	0.0000	0.0000	9.81E-04
50		0.00	0.000	0.106	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.146	0.2434	0.0000	0.0000	6.49E-10	0.0000	0.0000	9.76E-04
52		0.00	0.000	0.046	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.021	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.08	0.000	0.073	0.2419	0.0000	0.0000	6.51E-10	0.0000	0.0000	9.71E-04
55		0.02	0.000	0.014	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.36	0.000	0.010	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.103	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.161	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.032	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.027	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.013	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.008	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.30	0.000	0.009	0.2497	0.0000	0.0000	6.75E-10	0.0000	0.0000	9.66E-04
72		0.00	0.000	0.055	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.068	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.020	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.020	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.019	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.019	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.018	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.020	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.011	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.03	0.000	0.010	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.02	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.03	0.000	0.008	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.003	0.2415	0.0000	0.0000	6.73E-10	0.0000	0.0000	9.60E-04
109	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.12	0.000	0.007	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.10	0.000	0.007	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.04	0.000	0.014	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.011	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.010	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.10	0.000	0.014	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.06	0.000	0.129	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.03	0.000	0.106	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.01	0.000	0.017	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.03	0.000	0.020	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.015	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.011	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.011	0.2439	0.0000	0.0000	2.91E-10	0.0000	0.0000	9.55E-04
131		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.2419	0.0000	0.0000	6.72E-10	0.0000	0.0000	9.50E-04
150	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.08	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.001	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.2431	0.0000	0.0000	6.72E-10	0.0000	0.0000	9.45E-04
191	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.2429	0.0000	0.0000	6.49E-10	0.0000	0.0000	9.41E-04
193	0.00	0.000	0.003	0.2428	0.0000	0.0000	1.81E-09	0.0000	0.0000	9.36E-04
194	0.03	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.53	0.000	0.014	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.01	0.000	0.236	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.297	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.014	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.016	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.016	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.013	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.01	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.15	0.000	0.008	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.08	0.000	0.008	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.01	0.000	0.012	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.34	0.000	0.012	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.169	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.235	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.58	0.000	0.180	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.298	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.190	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.16	0.000	0.050	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.08	0.000	0.025	0.2474	0.0000	0.0002	2.28E-09	0.0000	0.0000	9.31E-04
233		0.03	0.000	0.046	0.2471	0.0001	0.0004	6.90E-10	0.0000	0.0000	9.26E-04
234		0.12	0.000	0.039	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.21	0.000	0.154	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.02	0.000	0.179	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.46	0.000	0.048	0.2576	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.12	0.000	0.335	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.01	0.000	0.192	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.043	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.041	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.039	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.022	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.013	0.2422	0.0000	0.0000	6.74E-10	0.0000	0.0000	9.21E-04
245		0.00	0.000	0.011	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.06	0.000	0.015	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.007	0.2420	0.0000	0.0000	6.87E-10	0.0000	0.0000	9.17E-04
253		0.00	0.000	0.006	0.2418	0.0000	0.0000	4.44E-16	0.0000	0.0000	9.12E-04
254		0.00	0.000	0.006	0.2416	0.0000	0.0000	9.76E-10	0.0000	0.0000	9.08E-04
255		0.00	0.000	0.004	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	9.03E-04
256		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.56	0.000	0.015	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	*	0.08	0.000	0.068	0.2570	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.07	0.000	0.068	0.2571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.089	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.098	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.111	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.079	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.059	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.048	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.051	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.021	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.12	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.005	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.20	0.000	0.017	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.15	0.000	0.019	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.142	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.017	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.017	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.016	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		1.26	0.000	0.023	0.2823	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.121	0.2790	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.132	0.2753	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.100	0.2725	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.089	0.2700	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.113	0.2669	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.110	0.2639	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.058	0.2622	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.000	0.2622	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.093	0.2597	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.147	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.095	0.2529	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.155	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.119	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.065	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.030	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.01	0.000	0.012	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.01	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.27	0.000	0.011	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.01	0.000	0.022	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.015	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.015	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.018	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.019	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.019	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.019	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.018	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.018	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.018	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.16	0.000	0.024	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.01	0.000	0.020	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.41	0.000	0.018	0.2595	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.01	0.000	0.048	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.055	0.2568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.098	0.2541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.106	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.084	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.095	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 4			
	inches	cubic feet	percent
Precipitation	8.24	2,095,022.3	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	8.078	2,052,737.9	97.98
Drainage Collected from Layer 6	0.0006	163.8	0.01
Percolation/Leakage through Layer 8	0.000000	0.0036	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.019978	5,076.5	0.24
Change in Water Storage	0.1458	37,044.1	1.77
Soil Water at Start of Year	1,040.1435	##########	12615.64
Soil Water at End of Year	1,040.2893	##########	12617.41
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 5

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.13	0.000	0.077	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.053	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.029	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.013	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.013	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.011	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.010	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.009	0.2437	0.0000	0.0000	6.18E-10	0.0000	0.0000	8.98E-04
9			0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.007	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.04	0.000	0.041	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.35	0.000	0.047	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.02	0.000	0.077	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.07	0.000	0.067	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.70	0.000	0.018	0.2684	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.097	0.2657	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.100	0.2630	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28			0.00	0.000	0.070	0.2610	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29			0.00	0.000	0.058	0.2594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30			0.00	0.000	0.076	0.2573	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31			0.18	0.000	0.076	0.2603	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32			0.16	0.000	0.075	0.2626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.21	0.000	0.110	0.2654	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*		0.00	0.000	0.073	0.2634	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.000	0.2634	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.03	0.000	0.026	0.2634	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*		0.02	0.000	0.017	0.2634	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38			0.00	0.000	0.089	0.2609	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39			0.00	0.000	0.074	0.2589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40			0.00	0.000	0.089	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*		0.00	0.000	0.000	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42			0.00	0.000	0.086	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43			0.00	0.000	0.127	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44			0.00	0.000	0.133	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45			0.00	0.000	0.077	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46			0.00	0.000	0.046	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47			0.00	0.000	0.007	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*		0.13	0.000	0.051	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.35	0.000	0.029	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*		0.58	0.000	0.038	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51			0.00	0.000	0.077	0.2672	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*		0.00	0.000	0.051	0.2658	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.12	0.000	0.089	0.2667	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*		0.00	0.000	0.075	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*		0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*		0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*		0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*		0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	*	0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	*	0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		*	0.16	0.000	0.006	0.2689	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62			0.00	0.000	0.168	0.2643	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.01	0.000	0.153	0.2602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.180	0.2552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.177	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.104	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.083	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.054	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.25	0.000	0.018	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.27	0.000	0.034	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.070	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.105	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.160	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.083	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.045	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.014	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	*	0.00	0.000	0.001	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	8.94E-04
101		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.16	0.000	0.010	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.003	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.011	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.011	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.012	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.014	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.014	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.014	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.007	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.008	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.007	0.2436	0.0001	0.0003	7.83E-10	0.0000	0.0000	8.90E-04
122		0.00	0.000	0.006	0.2434	0.0000	0.0000	4.44E-16	0.0000	0.0000	8.85E-04
123		0.00	0.000	0.006	0.2432	0.0001	0.0009	4.12E-09	0.0000	0.0000	8.81E-04
124		0.00	0.000	0.006	0.2431	0.0000	0.0000	8.88E-16	0.0000	0.0000	8.77E-04
125		0.00	0.000	0.005	0.2429	0.0001	0.0007	2.97E-09	0.0000	0.0000	8.72E-04
126		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	*	0.00	0.000	0.005	0.2426	0.0002	0.0014	6.87E-09	0.0000	0.0000	8.68E-04
128	*	0.00	0.000	0.000	0.2426	0.0000	0.0001	6.80E-10	0.0000	0.0000	8.64E-04
129	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.005	0.2424	0.0001	0.0010	5.72E-09	0.0000	0.0000	8.60E-04
132	*	0.00	0.000	0.005	0.2423	0.0000	0.0001	6.78E-10	0.0000	0.0000	8.56E-04

133	0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.001	0.2415	0.0000	0.0000	6.71E-10	0.0000	0.0000	8.52E-04
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	6.70E-10	0.0000	0.0000	8.48E-04
142	0.02	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.01	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.01	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.16	0.000	0.009	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.002	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.007	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.007	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.007	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.008	0.2449	0.0000	0.0000	4.74E-10	0.0000	0.0000	8.44E-04
217	0.00	0.000	0.009	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.05	0.000	0.015	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.09	0.000	0.008	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.12	0.000	0.012	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.98	0.000	0.180	0.2725	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.181	0.2675	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.263	0.2602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.253	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.243	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.168	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.83	0.000	0.047	0.2633	0.0000	0.0000	6.76E-10	0.0000	0.0000	8.40E-04
232	0.00	0.000	0.181	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.280	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.267	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.041	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.008	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.01	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.20	0.000	0.009	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.003	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.08	0.000	0.019	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.24	0.000	0.020	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.16	0.000	0.155	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.13	0.000	0.181	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.190	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.168	0.2432	0.0000	0.0000	6.76E-10	0.0000	0.0000	8.36E-04
274		0.00	0.000	0.042	0.2420	0.0000	0.0000	4.44E-16	0.0000	0.0000	8.32E-04
275		0.00	0.000	0.014	0.2416	0.0000	0.0002	6.85E-10	0.0000	0.0000	8.28E-04
276		0.00	0.000	0.003	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	8.24E-04
277		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.03	0.000	0.010	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.07	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.01	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.003	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.36	0.000	0.013	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.18	0.000	0.095	0.2558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.01	0.000	0.066	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.02	0.000	0.057	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.093	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.095	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	*	0.00	0.000	0.051	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.054	0.2451	0.0000	0.0000	6.73E-10	0.0000	0.0000	8.21E-04
303		0.00	0.000	0.046	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.033	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.038	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.23	0.000	0.010	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.03	0.000	0.019	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.012	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.012	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.015	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.016	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.016	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.016	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.14	0.000	0.022	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.012	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.011	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.011	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.011	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.013	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.014	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.014	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.014	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.014	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.013	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.013	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.013	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.013	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.15	0.000	0.019	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.013	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.06	0.000	0.052	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.009	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.008	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.008	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.009	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.010	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.011	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.011	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.011	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.000	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.44	0.000	0.036	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 5			
	inches	cubic feet	percent
Precipitation	8.77	2,227,405.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	8.403	2,135,124.3	95.86
Drainage Collected from Layer 6	0.0048	1,226.3	0.06
Percolation/Leakage through Layer 8	0.000000	0.0070	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.017169	4,362.6	0.20
Change in Water Storage	0.3412	86,692.7	3.89
Soil Water at Start of Year	1,040.2893	##########	11867.50
Soil Water at End of Year	1,040.2492	##########	11867.05
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.3813	96,878.4	4.35
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 6

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.043	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.082	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.116	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.142	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.069	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.06	0.000	0.060	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.025	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.017	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.011	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*	0.03	0.000	0.032	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.09	0.000	0.065	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.28	0.000	0.010	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.01	0.000	0.016	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.01	0.000	0.014	0.2488	0.0000	0.0000	6.72E-10	0.0000	0.0000	8.17E-04
49		0.08	0.000	0.016	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.49	0.000	0.020	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.116	0.2603	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.164	0.2557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.181	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.168	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.067	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.061	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.022	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.001	0.2417	0.0000	0.0000	6.73E-10	0.0000	0.0000	8.13E-04
66		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.11	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.24	0.000	0.008	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.008	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.008	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.008	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.008	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.009	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.010	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.011	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.011	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.012	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.012	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.012	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.012	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.012	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.011	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.012	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.012	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.011	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.012	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.012	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.011	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	*	0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.011	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.01	0.000	0.017	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.015	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.013	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.16	0.000	0.009	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.02	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.11	0.000	0.015	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.008	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.009	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.009	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.009	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.009	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.011	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.014	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.012	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.012	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.013	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.014	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.014	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.016	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.013	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.013	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.014	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.012	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.03	0.000	0.011	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.38	0.000	0.010	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.21	0.000	0.242	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.230	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.021	0.2446	0.0000	0.0000	6.72E-10	0.0000	0.0000	8.09E-04
219	0.00	0.000	0.022	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.021	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.019	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.007	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.004	0.2421	0.0000	0.0000	6.83E-10	0.0000	0.0000	8.06E-04
228	0.00	0.000	0.004	0.2420	0.0000	0.0000	4.44E-16	0.0000	0.0000	8.02E-04
229	0.00	0.000	0.004	0.2419	0.0000	0.0000	6.93E-10	0.0000	0.0000	7.99E-04
230	0.00	0.000	0.004	0.2418	0.0000	0.0000	4.44E-16	0.0000	0.0000	7.95E-04
231	0.00	0.000	0.004	0.2417	0.0000	0.0000	6.73E-10	0.0000	0.0000	7.91E-04
232	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.11	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.02	0.000	0.008	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.18	0.000	0.009	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.137	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.087	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.37	0.000	0.016	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.199	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.166	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.008	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.02	0.000	0.008	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.02	0.000	0.009	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.19	0.000	0.010	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.015	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.075	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.007	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.003	0.2422	0.0000	0.0001	6.79E-10	0.0000	0.0000	7.88E-04
302	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.08	0.000	0.008	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.002	0.2433	0.0000	0.0000	4.17E-10	0.0000	0.0000	7.84E-04
355		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.12	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.012	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.056	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.005	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.006	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.006	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.002	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 6			
	inches	cubic feet	percent
Precipitation	3.42	868,583.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.871	983,556.1	113.24
Drainage Collected from Layer 6	0.0001	32.3	0.00
Percolation/Leakage through Layer 8	0.000000	0.0013	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.008005	2,034.0	0.23
Change in Water Storage	-0.4606	-117,039.1	-13.47
Soil Water at Start of Year	1,040.2492	##########	30432.01
Soil Water at End of Year	1,040.1698	##########	30429.69
Snow Water at Start of Year	0.3813	96,878.4	11.15
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 7

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.002	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.002	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.002	0.2434	0.0000	0.0000	3.39E-10	0.0000	0.0000	7.81E-04
4	*		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.06	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.27	0.000	0.008	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.94	0.000	0.039	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2764	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.077	0.2742	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.158	0.2698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.210	0.2640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.129	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.070	0.2585	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.06	0.000	0.129	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.160	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.175	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.173	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.02	0.000	0.011	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.56	0.000	0.044	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.068	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.67	0.000	0.091	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.09	0.000	0.121	0.2698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.093	0.2672	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.173	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.141	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.210	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.257	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.113	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.02	0.000	0.016	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.01	0.000	0.011	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.08	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.007	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.007	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.007	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.005	0.2427	0.0000	0.0000	6.75E-10	0.0000	0.0000	7.78E-04
94		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.07	0.000	0.012	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.03	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.002	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.13	0.000	0.012	0.2467	0.0000	0.0000	6.73E-10	0.0000	0.0000	7.74E-04
109	0.04	0.000	0.063	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.083	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.014	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.013	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.013	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.08	0.000	0.010	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.002	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.10	0.000	0.011	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.002	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.006	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.004	0.2429	0.0000	0.0000	6.68E-10	0.0000	0.0000	7.71E-04
158	0.00	0.000	0.004	0.2428	0.0000	0.0000	6.72E-10	0.0000	0.0000	7.68E-04
159	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.03	0.000	0.009	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.12	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.08	0.000	0.050	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.06	0.000	0.044	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.055	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.066	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.011	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.012	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.009	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.003	0.2417	0.0000	0.0000	6.74E-10	0.0000	0.0000	7.64E-04
241	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.70	0.000	0.014	0.2605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.51	0.000	0.106	0.2717	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.094	0.2691	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.242	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.270	0.2549	0.0000	0.0000	6.73E-10	0.0000	0.0000	7.61E-04
257	0.00	0.000	0.285	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.03	0.000	0.201	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.017	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.18	0.000	0.016	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.030	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.079	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.038	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.012	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.2415	0.0000	0.0001	7.61E-10	0.0000	0.0000	7.58E-04
268	0.00	0.000	0.001	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	7.55E-04
269	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.06	0.000	0.011	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.05	0.000	0.011	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.09	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.038	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.009	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.27	0.000	0.020	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.19	0.000	0.043	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.051	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.099	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.107	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.106	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.066	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.00	0.000	0.027	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.45	0.000	0.013	0.2538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.109	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.079	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.046	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.079	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.050	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.049	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.022	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.17	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.05	0.000	0.024	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.10	0.000	0.052	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.078	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.059	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.023	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.025	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.018	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.015	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.05	0.000	0.047	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 7			
	inches	cubic feet	percent
Precipitation	6.41	1,629,929.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	6.485	1,647,743.2	101.09
Drainage Collected from Layer 6	0.0001	30.9	0.00
Percolation/Leakage through Layer 8	0.000000	0.0013	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.006909	1,755.6	0.11
Change in Water Storage	-0.0771	-19,599.8	-1.20
Soil Water at Start of Year	1,040.1698	##########	16215.86
Soil Water at End of Year	1,040.0927	##########	16214.66
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 8

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.12	0.000	0.033	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.97	0.000	0.030	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.04	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.053	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.050	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.13	0.000	0.000	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.05	0.000	0.056	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.04	0.000	0.000	0.2626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.17	0.000	0.041	0.2763	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.115	0.2731	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.142	0.2692	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.154	0.2649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.164	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.208	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.241	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.144	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.062	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.25	0.000	0.015	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.89	0.000	0.051	0.2720	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.84	0.000	0.042	0.2725	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.39	0.000	0.049	0.2731	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.06	0.000	0.000	0.3048	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		1.03	0.279	0.130	0.3223	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.43	0.008	0.127	0.3306	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.19	0.000	0.137	0.3321	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.01	0.000	0.083	0.3300	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.000	0.3300	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.00	0.000	0.000	0.3300	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.121	0.3266	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.179	0.3217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.178	0.3167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.12	0.000	0.185	0.3149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.03	0.000	0.126	0.3122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.02	0.000	0.113	0.3095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.26	0.000	0.152	0.3125	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.06	0.000	0.132	0.3104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.12	0.000	0.082	0.3114	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.077	0.3093	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.140	0.3054	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.164	0.3008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.114	0.2977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.104	0.2948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.180	0.2898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.084	0.2875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.065	0.2857	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.035	0.2847	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.005	0.2845	0.0000	0.0002	3.41E-09	0.0000	0.0000	7.51E-04
71		0.00	0.000	0.001	0.2845	0.0001	0.0005	5.32E-09	0.0000	0.0000	7.48E-04
72		0.00	0.000	0.001	0.2844	0.0002	0.0016	6.88E-09	0.0000	0.0000	7.45E-04
73		0.00	0.000	0.001	0.2843	0.0002	0.0013	6.87E-09	0.0000	0.0000	7.42E-04
74		0.00	0.000	0.001	0.2842	0.0001	0.0006	6.83E-09	0.0000	0.0000	7.39E-04
75		0.00	0.000	0.002	0.2840	0.0001	0.0006	6.83E-09	0.0000	0.0000	7.36E-04
76		0.00	0.000	0.001	0.2839	0.0000	0.0000	6.74E-10	0.0000	0.0000	7.33E-04
77		0.00	0.000	0.001	0.2837	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.2835	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2833	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2831	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*	0.00	0.000	0.000	0.2828	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.2826	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.000	0.2823	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2821	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.01	0.000	0.009	0.2819	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.26	0.000	0.066	0.2823	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.178	0.2821	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.004	0.2818	0.0000	0.0001	2.27E-09	0.0000	0.0000	7.30E-04
89		0.00	0.000	0.007	0.2816	0.0000	0.0000	6.75E-10	0.0000	0.0000	7.27E-04
90		0.00	0.000	0.007	0.2813	0.0004	0.0034	5.82E-09	0.0000	0.0000	7.24E-04
91		0.00	0.000	0.007	0.2809	0.0004	0.0028	5.33E-09	0.0000	0.0000	7.21E-04
92		0.00	0.000	0.004	0.2807	0.0001	0.0012	6.86E-09	0.0000	0.0000	7.18E-04
93		0.00	0.000	0.002	0.2805	0.0002	0.0013	6.87E-09	0.0000	0.0000	7.15E-04
94		0.00	0.000	0.001	0.2803	0.0002	0.0017	6.88E-09	0.0000	0.0000	7.12E-04
95		0.00	0.000	0.002	0.2801	0.0002	0.0019	6.89E-09	0.0000	0.0000	7.09E-04
96		0.00	0.000	0.002	0.2800	0.0002	0.0016	6.88E-09	0.0000	0.0000	7.06E-04
97		0.01	0.000	0.010	0.2800	0.0002	0.0014	6.87E-09	0.0000	0.0000	7.04E-04

98		0.00	0.000	0.004	0.2797	0.0001	0.0012	6.86E-09	0.0000	0.0000	7.01E-04
99		0.00	0.000	0.006	0.2795	0.0001	0.0008	5.25E-09	0.0000	0.0000	6.98E-04
100		0.03	0.000	0.009	0.2800	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.004	0.2798	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.007	0.2796	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.007	0.2794	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.007	0.2791	0.0003	0.0024	5.78E-09	0.0000	0.0000	6.95E-04
105		0.00	0.000	0.005	0.2789	0.0003	0.0023	6.91E-09	0.0000	0.0000	6.93E-04
106		0.00	0.000	0.002	0.2788	0.0001	0.0008	2.98E-09	0.0000	0.0000	6.90E-04
107		0.00	0.000	0.003	0.2787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.004	0.2786	0.0001	0.0005	6.94E-10	0.0000	0.0000	6.87E-04
109		0.00	0.000	0.004	0.2785	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.005	0.2783	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.004	0.2782	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.004	0.2781	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.84E-04
113		0.00	0.000	0.004	0.2780	0.0000	0.0002	6.82E-09	0.0000	0.0000	6.82E-04
114		0.00	0.000	0.004	0.2779	0.0001	0.0005	6.83E-09	0.0000	0.0000	6.79E-04
115		0.00	0.000	0.003	0.2778	0.0001	0.0007	6.84E-09	0.0000	0.0000	6.77E-04
116		0.00	0.000	0.002	0.2777	0.0001	0.0010	6.85E-09	0.0000	0.0000	6.74E-04
117		0.00	0.000	0.003	0.2776	0.0001	0.0012	6.86E-09	0.0000	0.0000	6.71E-04
118		0.00	0.000	0.002	0.2776	0.0002	0.0014	6.87E-09	0.0000	0.0000	6.69E-04
119		0.00	0.000	0.002	0.2775	0.0002	0.0016	6.88E-09	0.0000	0.0000	6.66E-04
120		0.00	0.000	0.003	0.2775	0.0002	0.0017	6.89E-09	0.0000	0.0000	6.64E-04
121		0.00	0.000	0.002	0.2774	0.0002	0.0019	6.89E-09	0.0000	0.0000	6.61E-04
122	*	0.00	0.000	0.002	0.2774	0.0002	0.0021	6.90E-09	0.0000	0.0000	6.59E-04
123		0.00	0.000	0.002	0.2773	0.0003	0.0022	6.91E-09	0.0000	0.0000	6.56E-04
124	*	0.00	0.000	0.002	0.2773	0.0003	0.0023	6.91E-09	0.0000	0.0000	6.54E-04
125	*	0.00	0.000	0.001	0.2772	0.0003	0.0025	6.92E-09	0.0000	0.0000	6.51E-04
126		0.00	0.000	0.003	0.2772	0.0003	0.0026	6.92E-09	0.0000	0.0000	6.49E-04
127		0.02	0.000	0.008	0.2774	0.0006	0.0051	7.02E-09	0.0000	0.0000	6.47E-04
128		0.01	0.000	0.009	0.2775	0.0007	0.0063	7.07E-09	0.0000	0.0000	6.44E-04
129		0.00	0.000	0.006	0.2773	0.0007	0.0062	7.06E-09	0.0000	0.0000	6.42E-04
130		0.00	0.000	0.006	0.2772	0.0007	0.0060	7.06E-09	0.0000	0.0000	6.40E-04
131		0.00	0.000	0.008	0.2771	0.0007	0.0056	7.04E-09	0.0000	0.0000	6.37E-04
132		0.02	0.000	0.007	0.2774	0.0007	0.0058	7.05E-09	0.0000	0.0000	6.35E-04

133	0.00	0.000	0.005	0.2773	0.0007	0.0056	7.04E-09	0.0000	0.0000	6.33E-04
134	0.00	0.000	0.007	0.2771	0.0006	0.0054	7.03E-09	0.0000	0.0000	6.30E-04
135	0.00	0.000	0.008	0.2769	0.0006	0.0053	7.03E-09	0.0000	0.0000	6.28E-04
136	0.00	0.000	0.007	0.2767	0.0006	0.0046	6.82E-09	0.0000	0.0000	6.26E-04
137	0.00	0.000	0.008	0.2764	0.0006	0.0050	7.02E-09	0.0000	0.0000	6.24E-04
138	0.00	0.000	0.009	0.2762	0.0005	0.0037	5.61E-09	0.0000	0.0000	6.21E-04
139	0.00	0.000	0.008	0.2759	0.0005	0.0039	5.84E-09	0.0000	0.0000	6.19E-04
140	0.00	0.000	0.005	0.2757	0.0005	0.0040	6.74E-09	0.0000	0.0000	6.17E-04
141	0.00	0.000	0.005	0.2756	0.0004	0.0036	5.82E-09	0.0000	0.0000	6.15E-04
142	0.00	0.000	0.005	0.2755	0.0006	0.0047	7.01E-09	0.0000	0.0000	6.13E-04
143	0.00	0.000	0.005	0.2753	0.0005	0.0046	7.00E-09	0.0000	0.0000	6.10E-04
144	0.00	0.000	0.004	0.2752	0.0005	0.0045	7.00E-09	0.0000	0.0000	6.08E-04
145	0.00	0.000	0.005	0.2750	0.0005	0.0044	6.99E-09	0.0000	0.0000	6.06E-04
146	0.00	0.000	0.004	0.2749	0.0005	0.0043	6.99E-09	0.0000	0.0000	6.04E-04
147	0.00	0.000	0.003	0.2748	0.0005	0.0042	6.99E-09	0.0000	0.0000	6.02E-04
148	0.00	0.000	0.004	0.2747	0.0005	0.0041	6.98E-09	0.0000	0.0000	6.00E-04
149	0.00	0.000	0.004	0.2746	0.0005	0.0040	6.98E-09	0.0000	0.0000	5.98E-04
150	0.00	0.000	0.004	0.2745	0.0005	0.0040	6.98E-09	0.0000	0.0000	5.96E-04
151	0.00	0.000	0.005	0.2744	0.0003	0.0025	4.53E-09	0.0000	0.0000	5.94E-04
152	0.00	0.000	0.005	0.2742	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.007	0.2740	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.007	0.2738	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.007	0.2736	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.007	0.2734	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.007	0.2733	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.007	0.2731	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.008	0.2728	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.008	0.2726	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.008	0.2724	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.006	0.2722	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.006	0.2721	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.007	0.2719	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.008	0.2717	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.006	0.2715	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.008	0.2713	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.008	0.2710	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.009	0.2708	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.011	0.2705	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.011	0.2702	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.009	0.2699	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.011	0.2696	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.009	0.2694	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.011	0.2690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.010	0.2688	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.009	0.2685	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.007	0.2683	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.010	0.2681	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.009	0.2678	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.009	0.2676	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.011	0.2673	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.013	0.2669	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.015	0.2665	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.015	0.2661	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.013	0.2657	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.015	0.2653	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.01	0.000	0.012	0.2652	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.010	0.2649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.018	0.2644	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.015	0.2640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.06	0.000	0.020	0.2650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.021	0.2644	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.023	0.2638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.019	0.2632	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.022	0.2626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.022	0.2620	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.021	0.2614	0.0001	0.0006	7.01E-10	0.0000	0.0000	5.92E-04
199	0.00	0.000	0.022	0.2608	0.0003	0.0023	5.32E-09	0.0000	0.0000	5.90E-04
200	0.00	0.000	0.021	0.2602	0.0000	0.0000	4.44E-16	0.0000	0.0000	5.88E-04
201	0.00	0.000	0.023	0.2595	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.021	0.2586	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.022	0.2580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.021	0.2574	0.0000	0.0000	2.27E-09	0.0000	0.0000	5.86E-04
205	0.03	0.000	0.025	0.2575	0.0000	0.0001	6.81E-09	0.0000	0.0000	5.84E-04
206	0.00	0.000	0.020	0.2569	0.0004	0.0037	6.97E-09	0.0000	0.0000	5.82E-04
207	0.00	0.000	0.026	0.2562	0.0005	0.0040	6.98E-09	0.0000	0.0000	5.80E-04
208	0.00	0.000	0.021	0.2556	0.0005	0.0039	6.98E-09	0.0000	0.0000	5.78E-04
209	0.00	0.000	0.018	0.2551	0.0000	0.0002	6.84E-10	0.0000	0.0000	5.76E-04
210	0.00	0.000	0.019	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.022	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.016	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.019	0.2527	0.0000	0.0000	4.54E-09	0.0000	0.0000	5.74E-04
214	0.00	0.000	0.015	0.2523	0.0002	0.0014	6.87E-09	0.0000	0.0000	5.72E-04
215	0.00	0.000	0.024	0.2516	0.0005	0.0040	6.98E-09	0.0000	0.0000	5.70E-04
216	0.04	0.000	0.020	0.2522	0.0005	0.0039	6.98E-09	0.0000	0.0000	5.68E-04
217	0.03	0.000	0.022	0.2525	0.0002	0.0016	3.01E-09	0.0000	0.0000	5.67E-04
218	0.04	0.000	0.022	0.2529	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.33	0.000	0.021	0.2614	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.028	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.021	0.2600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.020	0.2595	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.031	0.2586	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.030	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.032	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.032	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.032	0.2551	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.030	0.2543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.033	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.028	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.028	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.14	0.000	0.027	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.195	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.21	0.000	0.031	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.209	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.08	0.000	0.028	0.2503	0.0000	0.0000	2.27E-09	0.0000	0.0000	5.65E-04
237	0.01	0.000	0.028	0.2497	0.0004	0.0034	6.49E-09	0.0000	0.0000	5.63E-04

238	0.04	0.000	0.030	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.031	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.030	0.2482	0.0001	0.0012	3.46E-09	0.0000	0.0000	5.61E-04
241	0.00	0.000	0.026	0.2475	0.0001	0.0011	2.04E-09	0.0000	0.0000	5.59E-04
242	0.00	0.000	0.029	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.025	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.031	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.023	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.18	0.000	0.025	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.24	0.000	0.126	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.11	0.000	0.191	0.2496	0.0000	0.0000	6.74E-10	0.0000	0.0000	5.57E-04
249	0.00	0.000	0.144	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.094	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.036	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.013	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.003	0.2415	0.0000	0.0004	1.15E-09	0.0000	0.0000	5.56E-04
254	0.05	0.000	0.011	0.2426	0.0000	0.0001	6.77E-10	0.0000	0.0000	5.54E-04
255	0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.013	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.011	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.04	0.000	0.014	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.12	0.000	0.009	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.005	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.022	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.015	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.013	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.010	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.008	0.2431	0.0000	0.0000	6.75E-10	0.0000	0.0000	5.52E-04
267	0.00	0.000	0.010	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.39	0.000	0.010	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.10	0.000	0.152	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.245	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.079	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.048	0.2418	0.0000	0.0000	6.73E-10	0.0000	0.0000	5.50E-04

273		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.24	0.000	0.008	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.105	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.02	0.000	0.030	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.013	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.012	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.008	0.2434	0.0000	0.0000	6.75E-10	0.0000	0.0000	5.49E-04
288		0.00	0.000	0.007	0.2432	0.0000	0.0001	3.41E-09	0.0000	0.0000	5.47E-04
289		0.00	0.000	0.007	0.2430	0.0000	0.0001	2.49E-09	0.0000	0.0000	5.45E-04
290		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.006	0.2422	0.0000	0.0000	1.81E-09	0.0000	0.0000	5.43E-04
295	*	0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.005	0.2419	0.0000	0.0000	6.33E-10	0.0000	0.0000	5.42E-04
297		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.005	0.2416	0.0000	0.0000	6.71E-10	0.0000	0.0000	5.40E-04
299		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.03	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.02	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.08	0.000	0.006	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.02	0.000	0.006	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.58	0.000	0.013	0.2600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.16	0.000	0.076	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.02	0.000	0.097	0.2601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.141	0.2562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.168	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.107	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.160	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.088	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.04	0.000	0.008	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.008	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.04	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.006	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 8			
	inches	cubic feet	percent
Precipitation	10.04	2,551,234.5	100.00
Runoff	0.287	73,002.3	2.86
Evapotranspiration	9.555	2,428,023.9	95.17
Drainage Collected from Layer 6	0.1999	50,782.0	1.99
Percolation/Leakage through Layer 8	0.000000	0.1222	0.00
Average Head on Top of Layer 7	0.0001	---	---

Percolation/Leakage through Layer 9	0.058397	14,838.6	0.58
Change in Water Storage	-0.0607	-15,412.4	-0.60
Soil Water at Start of Year	1,040.0927	##########	10359.20
Soil Water at End of Year	1,040.0321	##########	10358.60
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 9

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.01	0.000	0.009	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.26	0.000	0.004	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.078	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.010	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.011	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.011	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.011	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.010	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.009	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.003	0.2426	0.0000	0.0000	6.75E-10	0.0000	0.0000	5.38E-04
62		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.25	0.000	0.005	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.098	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.009	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.010	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.04	0.000	0.012	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.010	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.010	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.010	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.010	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.008	0.2453	0.0000	0.0000	1.13E-09	0.0000	0.0000	5.37E-04
79		0.00	0.000	0.008	0.2450	0.0000	0.0000	6.70E-10	0.0000	0.0000	5.35E-04
80		0.00	0.000	0.008	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.008	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.008	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.008	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.008	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	*	0.00	0.000	0.008	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.000	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.17	0.000	0.011	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.089	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.009	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.010	0.2452	0.0000	0.0000	6.74E-10	0.0000	0.0000	5.33E-04
91		0.00	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.009	0.2445	0.0000	0.0000	6.76E-10	0.0000	0.0000	5.32E-04
94		0.00	0.000	0.009	0.2442	0.0000	0.0000	4.44E-16	0.0000	0.0000	5.30E-04
95		0.00	0.000	0.009	0.2440	0.0000	0.0000	6.77E-10	0.0000	0.0000	5.28E-04
96		0.00	0.000	0.009	0.2437	0.0000	0.0000	4.44E-16	0.0000	0.0000	5.27E-04
97		0.00	0.000	0.008	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.003	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	5.25E-04
104		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.08	0.000	0.006	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.001	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.005	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.003	0.2436	0.0000	0.0000	6.73E-10	0.0000	0.0000	5.24E-04
119		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	*	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.003	0.2430	0.0000	0.0000	6.72E-10	0.0000	0.0000	5.22E-04
127		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.003	0.2426	0.0000	0.0000	6.46E-10	0.0000	0.0000	5.20E-04

133		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.003	0.2416	0.0000	0.0000	2.27E-09	0.0000	0.0000	5.19E-04
145		0.00	0.000	0.002	0.2415	0.0000	0.0000	6.72E-10	0.0000	0.0000	5.17E-04
146		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.21	0.000	0.004	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.063	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.006	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.010	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.010	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.010	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.06	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.01	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.17	0.000	0.006	0.2472	0.0000	0.0000	6.47E-10	0.0000	0.0000	5.16E-04
219		0.00	0.000	0.075	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.109	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.010	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.010	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.08	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.01	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.55	0.000	0.009	0.2588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.126	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.222	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.19	0.000	0.211	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.29	0.000	0.097	0.2538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.270	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.111	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.047	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.18	0.000	0.005	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.004	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.51	0.000	0.011	0.2602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.160	0.2557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.142	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.161	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.070	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.100	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.030	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.06	0.000	0.007	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.28	0.000	0.045	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.070	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.012	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.011	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.013	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.00	0.000	0.000	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.015	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.015	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.015	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.03	0.000	0.008	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.12	0.000	0.006	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.02	0.000	0.006	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.20	0.000	0.012	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.073	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.105	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.012	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.012	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.012	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.012	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.012	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.012	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.012	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.000	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.012	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.013	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.013	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.010	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.013	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 9			
	inches	cubic feet	percent
Precipitation	3.79	963,818.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.768	957,381.7	99.33
Drainage Collected from Layer 6	0.0001	13.2	0.00
Percolation/Leakage through Layer 8	0.000000	0.0027	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.007903	2,008.3	0.21
Change in Water Storage	0.0174	4,415.0	0.46
Soil Water at Start of Year	1,040.0321	##########	27419.30
Soil Water at End of Year	1,040.0494	##########	27419.75
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 10

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.02	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.03	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.11	0.000	0.005	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.03	0.000	0.005	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.007	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.007	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.007	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.007	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.008	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.009	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.010	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.010	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.002	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.08	0.000	0.013	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.10	0.000	0.006	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.007	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.006	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.006	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.006	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.007	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.007	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.008	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.008	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.009	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.009	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.009	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.000	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.009	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.009	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.009	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.009	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.008	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.008	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.008	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	*		0.00	0.000	0.003	0.2418	0.0000	0.0001	2.94E-09	0.0000	0.0000	5.14E-04
65	*		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68			0.00	0.000	0.003	0.2417	0.0000	0.0001	1.81E-09	0.0000	0.0000	5.13E-04
69	*		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70			0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	*		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77			0.01	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78			0.01	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*		0.04	0.000	0.037	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82			0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*		0.39	0.000	0.040	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	*		0.02	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	*		0.00	0.000	0.054	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*		0.00	0.000	0.042	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	*	0.00	0.000	0.047	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	*	*	0.00	0.000	0.079	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	*	0.00	0.000	0.063	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	*	0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	*	0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		*	0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93			0.00	0.000	0.003	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94			0.01	0.000	0.006	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95			0.02	0.000	0.005	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96			0.00	0.000	0.001	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97			0.00	0.000	0.004	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.003	0.2436	0.0000	0.0000	6.73E-10	0.0000	0.0000	5.11E-04
102		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.003	0.2434	0.0000	0.0000	6.73E-10	0.0000	0.0000	5.10E-04
104		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.06	0.000	0.006	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.01	0.000	0.004	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.005	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.02	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.005	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.19	0.000	0.009	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.13	0.000	0.171	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.128	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.010	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.011	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.010	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.011	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	*	0.00	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.02	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.01	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.21	0.000	0.005	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.02	0.000	0.010	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.007	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.006	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.007	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.006	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.006	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.007	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.008	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.009	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.010	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.010	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.011	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.012	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.011	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.01	0.000	0.007	0.2428	0.0000	0.0000	6.49E-10	0.0000	0.0000	5.08E-04
210	0.22	0.000	0.006	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.04	0.000	0.139	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.115	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.012	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.013	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.010	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.008	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.18	0.000	0.006	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.29	0.000	0.062	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.172	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.205	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.014	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.014	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.13	0.000	0.006	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.024	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.004	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.006	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.11	0.000	0.007	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.020	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.055	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.001	0.2417	0.0000	0.0000	1.73E-09	0.0000	0.0000	5.07E-04
325		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.43	0.000	0.006	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.053	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.063	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.107	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.064	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.094	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.037	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.05	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.23	0.000	0.007	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.096	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.095	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.97	0.000	0.026	0.2698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.23	0.000	0.047	0.2703	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.03	0.000	0.056	0.2709	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.10	0.000	0.023	0.2714	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.01	0.000	0.015	0.2720	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.00	0.000	0.027	0.2725	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.034	0.2731	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.03	0.000	0.023	0.2736	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.071	0.2724	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.000	0.2724	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.056	0.2709	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.107	0.2679	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.117	0.2647	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 10			
	inches	cubic feet	percent
Precipitation	4.57	1,160,026.3	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.756	954,388.6	82.27
Drainage Collected from Layer 6	0.0001	38.0	0.00
Percolation/Leakage through Layer 8	0.000000	0.0022	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.003062	778.1	0.07
Change in Water Storage	0.8061	204,821.6	17.66
Soil Water at Start of Year	1,040.0494	##########	22781.95
Soil Water at End of Year	1,040.8555	##########	22799.60
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 11

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.108	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.091	0.2591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.101	0.2563	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.121	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.077	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.127	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.102	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.082	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.35	0.000	0.007	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.13	0.000	0.076	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.108	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.089	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.124	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.047	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.026	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.16	0.000	0.013	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.021	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.031	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.30	0.000	0.049	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.023	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.080	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.064	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.065	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.042	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.040	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.016	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.008	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.12	0.000	0.007	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.003	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.012	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.006	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.41	0.000	0.017	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.07	0.000	0.151	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.17	0.000	0.121	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.15	0.000	0.083	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.03	0.000	0.139	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.04	0.000	0.228	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.104	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.13	0.000	0.089	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.012	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.031	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.014	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.017	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.012	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.012	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.010	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.010	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.010	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.12	0.000	0.006	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.001	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.006	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.007	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2435	0.0000	0.0000	1.81E-09	0.0000	0.0000	5.05E-04
209	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2433	0.0000	0.0000	1.04E-09	0.0000	0.0000	5.04E-04
211	0.00	0.000	0.003	0.2432	0.0000	0.0000	4.44E-16	0.0000	0.0000	5.02E-04
212	0.00	0.000	0.003	0.2432	0.0000	0.0000	6.95E-10	0.0000	0.0000	5.01E-04
213	0.00	0.000	0.003	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.99E-04
214	0.00	0.000	0.003	0.2430	0.0000	0.0000	1.81E-09	0.0000	0.0000	4.98E-04
215	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.003	0.2423	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.96E-04
224	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.2419	0.0000	0.0000	6.65E-10	0.0000	0.0000	4.95E-04
229	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.007	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.12	0.000	0.006	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.001	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.006	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.007	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.007	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.2433	0.0000	0.0000	6.49E-10	0.0000	0.0000	4.93E-04
245	0.00	0.000	0.004	0.2432	0.0000	0.0000	9.83E-10	0.0000	0.0000	4.92E-04
246	0.00	0.000	0.003	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.91E-04
247	0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.003	0.2424	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.89E-04
257	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.002	0.2418	0.0000	0.0000	1.80E-09	0.0000	0.0000	4.88E-04
265	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.08	0.000	0.006	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.001	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.002	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.002	0.2430	0.0000	0.0000	1.81E-09	0.0000	0.0000	4.86E-04
286		0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.04	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.13	0.000	0.006	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.07	0.000	0.045	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.09	0.000	0.085	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.082	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.056	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.036	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.018	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.017	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.013	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.008	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.01	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.09	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.35	0.000	0.009	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.67	0.000	0.103	0.2691	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.093	0.2665	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.141	0.2626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.146	0.2586	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.160	0.2541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.113	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.098	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.075	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.072	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.077	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.012	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.03	0.000	0.009	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.16	0.000	0.007	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.92	0.000	0.015	0.2711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.079	0.2691	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.182	0.2640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.152	0.2598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.110	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.070	0.2548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.063	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.05	0.000	0.097	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.134	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.075	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.048	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.070	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 11			
	inches	cubic feet	percent
Precipitation	5.01	1,273,504.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.799	1,473,446.7	115.70
Drainage Collected from Layer 6	0.0000	4.9568	0.00
Percolation/Leakage through Layer 8	0.000000	0.0032	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.006939	1,763.2	0.14
Change in Water Storage	-0.7938	-201,710.7	-15.84
Soil Water at Start of Year	1,040.8555	##########	20768.00
Soil Water at End of Year	1,040.0617	##########	20752.16
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 12

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.022	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.17	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.44	0.000	0.024	0.2581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.12	0.000	0.076	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.082	0.2571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.076	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.101	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.062	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.000	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.070	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.064	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.066	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.069	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.021	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28			0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29			0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30			0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31			0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32			0.03	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.04	0.000	0.009	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*		0.22	0.000	0.053	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.059	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.00	0.000	0.056	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37			0.00	0.000	0.004	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38			0.00	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39			0.00	0.000	0.008	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40			0.00	0.000	0.008	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41			0.00	0.000	0.007	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42			1.22	0.000	0.019	0.2775	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43			0.00	0.000	0.138	0.2737	0.0000	0.0000	6.70E-10	0.0000	0.0000	4.85E-04
44			0.00	0.000	0.237	0.2671	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45			0.00	0.000	0.143	0.2631	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46			0.00	0.000	0.184	0.2580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47			0.09	0.000	0.217	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48			0.00	0.000	0.226	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.00	0.000	0.139	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50			0.00	0.000	0.057	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51			0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*		0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*		0.17	0.000	0.028	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*		0.35	0.000	0.020	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*		0.00	0.000	0.015	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*		0.00	0.000	0.024	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*		0.00	0.000	0.036	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.023	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	*	0.00	0.000	0.033	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.147	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.051	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.024	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.029	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.013	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.012	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.008	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.007	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.007	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	*	0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.01	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.03	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.05	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.06	0.000	0.008	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.001	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.006	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.006	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.006	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2436	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.84E-04

203		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.02	0.000	0.008	0.2439	0.0000	0.0000	6.87E-10	0.0000	0.0000	4.82E-04
205		0.03	0.000	0.006	0.2444	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.81E-04
206		0.02	0.000	0.006	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.001	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.006	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.006	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.007	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.003	0.2435	0.0000	0.0000	1.80E-09	0.0000	0.0000	4.80E-04
217		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.003	0.2433	0.0000	0.0000	8.53E-10	0.0000	0.0000	4.78E-04
219		0.03	0.000	0.008	0.2439	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.77E-04
220		0.00	0.000	0.001	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.003	0.2430	0.0000	0.0000	7.17E-10	0.0000	0.0000	4.76E-04
231		0.00	0.000	0.003	0.2429	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.74E-04
232		0.00	0.000	0.003	0.2428	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.73E-04
233		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.003	0.2423	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.72E-04
239		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.01	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.002	0.2415	0.0000	0.0000	1.33E-09	0.0000	0.0000	4.70E-04
254		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.05	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.01	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		1.15	0.000	0.009	0.2741	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.237	0.2675	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.206	0.2618	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.242	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.168	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.01	0.000	0.105	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.01	0.000	0.146	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.02	0.000	0.095	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.15	0.000	0.008	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.003	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.011	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.011	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.013	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.007	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.02	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.003	0.2418	0.0000	0.0000	2.53E-10	0.0000	0.0000	4.69E-04
350		0.00	0.000	0.002	0.2418	0.0000	0.0000	6.34E-10	0.0000	0.0000	4.68E-04
351	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	6.50E-10	0.0000	0.0000	4.66E-04
352		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 12			
	inches	cubic feet	percent
Precipitation	4.52	1,148,671.4	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.558	1,158,139.5	100.82
Drainage Collected from Layer 6	0.0000	3.9186	0.00
Percolation/Leakage through Layer 8	0.000000	0.0024	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.007134	1,812.8	0.16
Change in Water Storage	-0.0444	-11,284.9	-0.98
Soil Water at Start of Year	1,040.0617	##########	23007.42
Soil Water at End of Year	1,040.0173	##########	23006.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 13

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.17	0.000	0.082	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.074	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.09	0.000	0.008	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.12	0.000	0.006	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.06	0.000	0.066	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.63	0.000	0.075	0.2632	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.123	0.2598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.112	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.133	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.28	0.000	0.138	0.2568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.04	0.000	0.131	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.38	0.000	0.153	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.15	0.000	0.146	0.2610	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.110	0.2580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.116	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.133	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.170	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.122	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.023	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.04	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.007	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.008	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2417	0.0000	0.0002	6.81E-10	0.0000	0.0000	4.65E-04
81		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	*	0.04	0.000	0.038	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.06	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.32	0.000	0.007	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.184	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.015	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.03	0.000	0.020	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.23	0.000	0.022	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.234	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.018	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.019	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.018	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.014	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.018	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.010	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.004	0.2426	0.0000	0.0000	2.27E-09	0.0000	0.0000	4.64E-04
113	0.00	0.000	0.004	0.2425	0.0000	0.0000	6.69E-10	0.0000	0.0000	4.63E-04
114	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.004	0.2417	0.0000	0.0000	8.49E-10	0.0000	0.0000	4.61E-04
121	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	6.69E-10	0.0000	0.0000	4.60E-04
124	0.00	0.000	0.003	0.2415	0.0000	0.0000	8.45E-10	0.0000	0.0000	4.59E-04
125	0.04	0.000	0.007	0.2424	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.58E-04
126	0.14	0.000	0.007	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.004	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.009	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.008	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.009	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.011	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.012	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.012	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.012	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.013	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.09	0.000	0.010	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.005	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.009	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.009	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.012	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.006	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.03	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.002	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.005	0.2431	0.0000	0.0000	2.16E-09	0.0000	0.0000	4.56E-04
156	0.00	0.000	0.005	0.2430	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.55E-04
157	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.004	0.2424	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.54E-04
162	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.2421	0.0000	0.0000	6.86E-10	0.0000	0.0000	4.53E-04
164	0.00	0.000	0.004	0.2420	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.52E-04
165	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.2416	0.0000	0.0000	7.04E-10	0.0000	0.0000	4.50E-04
169	0.00	0.000	0.002	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.49E-04
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.16	0.000	0.008	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.01	0.000	0.007	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.009	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.008	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.009	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.012	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.014	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.015	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.02	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.31	0.000	0.008	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.167	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.185	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.02	0.000	0.020	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.018	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.13	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.050	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.011	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.018	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.016	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.017	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.16	0.000	0.008	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.01	0.000	0.029	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.067	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.053	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.01	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.01	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	*	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.01	0.000	0.006	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.57	0.000	0.010	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.61	0.000	0.051	0.2728	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.01	0.000	0.055	0.2714	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.104	0.2686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.094	0.2660	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.171	0.2612	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.111	0.2581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.116	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.079	0.2527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.103	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.112	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.080	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	*	0.00	0.000	0.000	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.083	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.009	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.22	0.000	0.036	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.027	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.025	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.035	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.024	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.017	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.020	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.015	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	*	0.07	0.000	0.034	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	*	0.03	0.000	0.036	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		*	0.00	0.000	0.030	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350			0.00	0.000	0.009	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351			0.00	0.000	0.008	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352			0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 13			
	inches	cubic feet	percent
Precipitation	5.35	1,360,272.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.349	1,359,060.8	99.91
Drainage Collected from Layer 6	0.0002	42.4	0.00
Percolation/Leakage through Layer 8	0.000000	0.0026	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.006399	1,626.0	0.12
Change in Water Storage	-0.0018	-457.1	-0.03
Soil Water at Start of Year	1,040.0173	##########	19427.61
Soil Water at End of Year	1,040.0155	##########	19427.58
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 14

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.12	0.000	0.008	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.21	0.000	0.015	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.03	0.000	0.089	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.01	0.000	0.104	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.054	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.12	0.000	0.069	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.65	0.000	0.038	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.023	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.028	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.039	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.085	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.059	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.067	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.000	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.050	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.071	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.092	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.086	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.060	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.074	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.023	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.15	0.000	0.014	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.01	0.000	0.026	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.13	0.000	0.069	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.038	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.08	0.000	0.089	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.06	0.000	0.031	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.01	0.000	0.037	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.062	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.030	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.015	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.00	0.000	0.015	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.20	0.000	0.011	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.016	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.036	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.03	0.000	0.088	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.24	0.000	0.037	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.01	0.000	0.057	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.051	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.068	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.049	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.01	0.000	0.037	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.018	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.012	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.15	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.044	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.013	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.019	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.018	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.017	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.005	0.2418	0.0000	0.0002	6.83E-10	0.0000	0.0000	4.48E-04
115	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.06	0.000	0.010	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.02	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.004	0.2421	0.0000	0.0000	3.40E-09	0.0000	0.0000	4.47E-04
128	0.00	0.000	0.004	0.2420	0.0000	0.0000	6.69E-10	0.0000	0.0000	4.46E-04
129	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.01	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.02	0.000	0.008	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.07	0.000	0.008	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.002	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.004	0.2433	0.0000	0.0000	8.71E-10	0.0000	0.0000	4.44E-04
157		0.00	0.000	0.004	0.2432	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.43E-04
158		0.00	0.000	0.004	0.2431	0.0000	0.0000	8.43E-10	0.0000	0.0000	4.42E-04
159		0.00	0.000	0.004	0.2430	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.41E-04
160		0.00	0.000	0.004	0.2429	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.40E-04
161		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.003	0.2421	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.39E-04
169	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.01	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.31	0.000	0.008	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.07	0.000	0.164	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.01	0.000	0.080	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.099	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.012	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.009	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.009	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.14	0.000	0.010	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.002	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.007	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.08	0.000	0.014	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.13	0.000	0.050	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.14	0.000	0.138	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.02	0.000	0.140	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.03	0.000	0.096	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.04	0.000	0.020	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.016	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.008	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.004	0.2427	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.38E-04
208	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.2425	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.36E-04
210	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.003	0.2422	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.35E-04
213	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.12	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	1.03	0.000	0.201	0.2677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.16	0.000	0.220	0.2660	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.311	0.2574	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.287	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.202	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.064	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.009	0.2418	0.0000	0.0001	6.78E-10	0.0000	0.0000	4.34E-04
226	0.00	0.000	0.005	0.2416	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.33E-04
227	0.15	0.000	0.018	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.25	0.000	0.013	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.165	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.150	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.02	0.000	0.032	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.014	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.013	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.012	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.01	0.000	0.006	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.22	0.000	0.009	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.26	0.000	0.065	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.01	0.000	0.098	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.151	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.125	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.031	0.2418	0.0000	0.0000	3.40E-09	0.0000	0.0000	4.32E-04

273		0.00	0.000	0.006	0.2416	0.0000	0.0000	2.94E-09	0.0000	0.0000	4.31E-04
274		0.00	0.000	0.001	0.2416	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.30E-04
275		0.15	0.000	0.015	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.04	0.000	0.013	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.01	0.000	0.024	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.20	0.000	0.030	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.100	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.129	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.032	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.020	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.009	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.008	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.008	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.24	0.000	0.040	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.084	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.002	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.000	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.007	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	1.31	0.000	0.013	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.020	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.039	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.01	0.000	0.000	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2789	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.14	0.000	0.038	0.2818	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.049	0.2804	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.070	0.2785	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.00	0.000	0.045	0.2772	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.091	0.2747	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.04	0.000	0.097	0.2730	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.07	0.000	0.077	0.2727	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.094	0.2701	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 14			
	inches	cubic feet	percent
Precipitation	7.79	1,979,865.3	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	6.776	1,721,830.7	86.97
Drainage Collected from Layer 6	0.0003	76.3	0.00
Percolation/Leakage through Layer 8	0.000000	0.0045	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.007458	1,895.2	0.10
Change in Water Storage	1.0077	256,063.0	12.93
Soil Water at Start of Year	1,040.0155	##########	13347.77
Soil Water at End of Year	1,041.0232	##########	13360.71
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 15

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8

Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.092	0.2676	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.129	0.2640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.157	0.2596	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.103	0.2568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.066	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.08	0.000	0.077	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.093	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.079	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.19	0.000	0.042	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.60	0.000	0.037	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.041	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.046	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.035	0.2667	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.136	0.2629	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.089	0.2605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.060	0.2588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.067	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.22	0.000	0.114	0.2598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.113	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.16	0.000	0.071	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.112	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.122	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.103	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.19	0.000	0.053	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.110	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.14	0.000	0.106	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.08	0.000	0.088	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.45	0.000	0.081	0.2616	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.53	0.000	0.069	0.2743	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.078	0.2722	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.121	0.2688	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.141	0.2649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.161	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.195	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.153	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.193	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.049	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.001	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.09	0.000	0.013	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.005	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.010	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.009	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.008	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.008	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.003	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.001	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.001	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.001	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.001	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.001	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.001	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.000	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	*	0.18	0.000	0.057	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.103	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.002	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.15	0.000	0.009	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.014	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.010	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.05	0.000	0.018	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.031	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.013	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.014	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.007	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.006	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.005	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.005	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.04	0.000	0.012	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.003	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.006	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.005	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.005	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.005	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.005	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.005	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.005	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.005	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.13	0.000	0.011	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	*	0.00	0.000	0.016	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	*	0.00	0.000	0.000	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.084	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.013	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.012	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.010	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.003	0.2425	0.0000	0.0001	2.95E-09	0.0000	0.0000	4.29E-04
119		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.08	0.000	0.008	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.002	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.004	0.2429	0.0000	0.0000	6.71E-10	0.0000	0.0000	4.28E-04
144		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.004	0.2427	0.0000	0.0000	6.46E-10	0.0000	0.0000	4.26E-04
146		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.22	0.000	0.008	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.072	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.115	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.011	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.89	0.000	0.014	0.2658	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.186	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.267	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.239	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.134	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.039	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.08	0.000	0.012	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.04	0.000	0.015	0.2430	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.25E-04
249		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.01	0.000	0.013	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.14	0.000	0.010	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.005	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.016	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.017	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.020	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.022	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.34	0.000	0.026	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.106	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.204	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.069	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.027	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.14	0.000	0.011	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.005	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.017	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.008	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.008	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.007	0.2432	0.0000	0.0000	6.75E-10	0.0000	0.0000	4.24E-04
277		0.00	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.006	0.2428	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.23E-04
279		0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.006	0.2423	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.22E-04
282		0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.006	0.2420	0.0000	0.0000	7.65E-10	0.0000	0.0000	4.21E-04
284		0.00	0.000	0.005	0.2418	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.20E-04
285		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.11	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.11	0.000	0.009	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	*	0.00	0.000	0.010	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.009	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.009	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.009	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.012	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.012	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.012	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.012	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.012	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.012	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.45	0.000	0.019	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.032	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.034	0.2541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.056	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.063	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.102	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.068	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.092	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.061	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.02	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.22	0.000	0.026	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.063	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.003	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.014	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.013	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.000	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.010	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.006	0.2434	0.0000	0.0000	6.76E-10	0.0000	0.0000	4.19E-04
345	*	0.00	0.000	0.006	0.2432	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.18E-04
346	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.2429	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.17E-04
349		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.04	0.000	0.012	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.002	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.004	0.2424	0.0000	0.0000	4.71E-10	0.0000	0.0000	4.16E-04
361		0.00	0.000	0.004	0.2423	0.0000	0.0000	3.28E-10	0.0000	0.0000	4.15E-04
362	*	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 15			
	inches	cubic feet	percent
Precipitation	6.16	1,565,787.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	7.177	1,823,584.8	116.46
Drainage Collected from Layer 6	0.0002	44.6	0.00
Percolation/Leakage through Layer 8	0.000000	0.0025	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.005904	1,500.2	0.10
Change in Water Storage	-1.0206	-259,342.5	-16.56
Soil Water at Start of Year	1,041.0232	##########	16894.00
Soil Water at End of Year	1,040.0026	##########	16877.43
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 16

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.004	0.2418	0.0000	0.0000	6.21E-10	0.0000	0.0000	4.14E-04
2			0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.10	0.000	0.050	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.031	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.03	0.000	0.031	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33			0.04	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34			0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*		0.04	0.000	0.035	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48			0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49			0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50			0.00	0.000	0.003	0.2420	0.0000	0.0000	4.54E-09	0.0000	0.0000	4.13E-04
51			0.00	0.000	0.003	0.2419	0.0000	0.0000	1.35E-09	0.0000	0.0000	4.12E-04
52			0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53			0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56			0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57			0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58			0.00	0.000	0.003	0.2415	0.0000	0.0000	6.72E-10	0.0000	0.0000	4.11E-04
59			0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.03	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.01	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.59	0.000	0.012	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.173	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.225	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.168	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.031	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.02	0.000	0.020	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.02	0.000	0.016	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.04	0.000	0.013	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.09	0.000	0.013	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.005	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.04	0.000	0.021	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.02	0.000	0.011	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.012	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.017	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.010	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.008	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.008	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.007	0.2432	0.0000	0.0000	6.75E-10	0.0000	0.0000	4.10E-04
108		0.00	0.000	0.007	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.006	0.2429	0.0000	0.0000	2.48E-09	0.0000	0.0000	4.09E-04
110		0.00	0.000	0.006	0.2427	0.0000	0.0000	7.32E-10	0.0000	0.0000	4.08E-04
111	*	0.00	0.000	0.006	0.2425	0.0000	0.0000	4.44E-16	0.0000	0.0000	4.07E-04
112		0.00	0.000	0.006	0.2424	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.06E-04
113		0.00	0.000	0.006	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.005	0.2416	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.05E-04
118		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.04	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.03	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.2425	0.0000	0.0000	6.47E-10	0.0000	0.0000	4.04E-04
150	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.09	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.002	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.004	0.2435	0.0000	0.0000	6.73E-10	0.0000	0.0000	4.03E-04
162	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.2432	0.0000	0.0000	6.49E-10	0.0000	0.0000	4.02E-04
165	0.00	0.000	0.004	0.2431	0.0000	0.0000	1.81E-09	0.0000	0.0000	4.01E-04
166	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.003	0.2415	0.0000	0.0000	6.71E-10	0.0000	0.0000	4.00E-04
182	0.00	0.000	0.001	0.2415	0.0000	0.0000	8.80E-10	0.0000	0.0000	3.99E-04
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.98E-04
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.04	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.13	0.000	0.009	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.002	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.008	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.008	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.007	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.009	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.012	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.03	0.000	0.010	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.003	0.2425	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.97E-04
218		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.34	0.000	0.010	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		1.14	0.000	0.112	0.2801	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.165	0.2755	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.244	0.2687	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.292	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.00	0.000	0.353	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.231	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.084	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.14	0.000	0.013	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.005	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.019	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.012	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.010	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.009	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.008	0.2430	0.0000	0.0000	6.75E-10	0.0000	0.0000	3.96E-04
242	0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.008	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.007	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.02	0.000	0.010	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.03	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.08	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.01	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.31	0.000	0.009	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.076	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.105	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.131	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.050	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.016	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2415	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.95E-04
307		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.02	0.000	0.010	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.04	0.000	0.010	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.06	0.000	0.025	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.01	0.000	0.021	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.000	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.00	0.000	0.000	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.06	0.000	0.055	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.04	0.000	0.013	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.002	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.005	0.2430	0.0000	0.0000	6.88E-10	0.0000	0.0000	3.94E-04
344		0.00	0.000	0.004	0.2428	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.94E-04
345		0.00	0.000	0.004	0.2427	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.93E-04
346	*	0.00	0.000	0.000	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.2427	0.0000	0.0000	6.36E-10	0.0000	0.0000	3.92E-04
348	*	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.03	0.000	0.011	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.2426	0.0000	0.0000	4.98E-10	0.0000	0.0000	3.91E-04
355		0.00	0.000	0.004	0.2425	0.0000	0.0000	3.40E-10	0.0000	0.0000	3.90E-04
356		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.15	0.000	0.011	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.26	0.000	0.009	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.70	0.000	0.062	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.091	0.2682	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.118	0.2649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.115	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.122	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.089	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 16			
	inches	cubic feet	percent
Precipitation	4.90	1,244,713.7	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	4.397	1,117,296.4	89.76
Drainage Collected from Layer 6	0.0001	19.0	0.00
Percolation/Leakage through Layer 8	0.000000	0.0057	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.010443	2,653.5	0.21
Change in Water Storage	0.4909	124,744.8	10.02
Soil Water at Start of Year	1,040.0026	##########	21230.96
Soil Water at End of Year	1,040.4935	##########	21240.98
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 17

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.116	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.144	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.146	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.082	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.017	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.02	0.000	0.015	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.22	0.000	0.033	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.84	0.000	0.048	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.79	0.000	0.043	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.058	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.2879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.152	0.2837	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.113	0.2805	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.067	0.2787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*	0.00	0.000	0.000	0.2787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.000	0.2787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.10	0.000	0.021	0.2792	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.04	0.000	0.023	0.2798	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.06	0.000	0.027	0.2803	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.01	0.000	0.080	0.2800	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.36	0.000	0.090	0.2875	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.36	0.000	0.117	0.2943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.26	0.000	0.096	0.2989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.129	0.2953	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.01	0.000	0.159	0.2912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.136	0.2874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.191	0.2821	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.122	0.2787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.07	0.000	0.089	0.2782	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.22	0.000	0.107	0.2814	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.210	0.2756	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.172	0.2708	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.217	0.2647	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.169	0.2601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.201	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.064	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.009	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.17	0.000	0.016	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.007	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.025	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.031	0.2551	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.012	0.2548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.014	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.010	0.2542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.009	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.009	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.008	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.008	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.008	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.007	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.007	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.007	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.007	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.003	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.01	0.000	0.010	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.004	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.003	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.05	0.000	0.053	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.00	0.000	0.001	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.000	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.002	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.002	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.002	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.002	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.002	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.002	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.002	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.003	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.002	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.001	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.002	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.002	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.001	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	*	0.00	0.000	0.001	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	*	0.00	0.000	0.000	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.001	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.001	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.001	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.002	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.002	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.001	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.03	0.000	0.010	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.003	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.004	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.004	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.005	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.13	0.000	0.012	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.004	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.009	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.010	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.011	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.011	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.008	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.007	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.006	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.006	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.007	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.006	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.006	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.007	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.007	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.008	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.008	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.008	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.007	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.006	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.007	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.006	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.007	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.007	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.007	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.006	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.008	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.009	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.008	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.009	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.007	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.02	0.000	0.013	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.006	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.007	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.009	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.007	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.006	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.008	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.010	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.008	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.01	0.000	0.013	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.012	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.013	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.012	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.010	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.008	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.010	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.012	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.014	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.014	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.012	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.17	0.000	0.008	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.07	0.000	0.008	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.013	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.010	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.009	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.009	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.010	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.012	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.014	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.014	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.01	0.000	0.019	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.03	0.000	0.024	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.013	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.016	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.018	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.006	0.2430	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.89E-04
211	0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	1.05	0.000	0.017	0.2710	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.88E-04
216	0.00	0.000	0.170	0.2663	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.341	0.2568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.387	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.155	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.13	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.006	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.40	0.000	0.027	0.2550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.14	0.000	0.186	0.2538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.235	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.041	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.035	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.033	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.039	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.028	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.013	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.01	0.000	0.014	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.07	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.004	0.2419	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.87E-04
277		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	*	0.31	0.000	0.040	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.04	0.000	0.055	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.23	0.000	0.081	0.2528	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.09	0.000	0.060	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.069	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.094	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.096	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.101	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.050	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.017	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.04	0.000	0.012	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.13	0.000	0.015	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.08	0.000	0.054	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.10	0.000	0.035	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.15	0.000	0.036	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.091	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.017	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.018	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.021	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.022	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.022	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.021	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.020	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.020	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.019	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.017	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.012	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.06	0.000	0.012	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.01	0.000	0.008	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.03	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.21	0.000	0.009	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.058	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.016	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.018	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.016	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.015	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.05	0.000	0.022	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.015	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.012	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.012	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.013	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.013	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.014	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.013	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.013	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.013	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.014	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.01	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.10	0.000	0.008	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.002	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.008	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.008	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.008	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.011	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 17			
	inches	cubic feet	percent
Precipitation	7.50	1,906,408.3	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	7.933	2,015,732.0	105.73
Drainage Collected from Layer 6	0.0000	4.6130	0.00
Percolation/Leakage through Layer 8	0.000000	0.0005	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.001164	295.8	0.02
Change in Water Storage	-0.4314	-109,624.1	-5.75
Soil Water at Start of Year	1,040.4935	##########	13868.46
Soil Water at End of Year	1,040.0621	##########	13862.71
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 18

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8

Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.010	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.000	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.003	0.2426	0.0000	0.0000	4.31E-10	0.0000	0.0000	3.86E-04
17	*		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.39	0.000	0.009	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.116	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.170	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.010	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.28	0.000	0.017	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.05	0.000	0.127	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.013	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.71	0.000	0.017	0.2674	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.01	0.000	0.117	0.2644	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.147	0.2603	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.02	0.000	0.102	0.2581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.057	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*	0.00	0.000	0.000	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.118	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.080	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.072	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.000	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.093	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.081	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.048	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.032	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.18	0.000	0.008	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.002	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.008	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.008	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.009	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.34	0.000	0.015	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.191	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.01	0.000	0.220	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.014	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.014	0.2428	0.0000	0.0000	6.80E-10	0.0000	0.0000	3.85E-04
114		0.00	0.000	0.011	0.2425	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.84E-04
115		0.00	0.000	0.015	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.015	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.16	0.000	0.008	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.002	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.007	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.008	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.007	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.008	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.009	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.010	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.04	0.000	0.015	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.003	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.006	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.02	0.000	0.010	0.2437	0.0000	0.0000	6.82E-10	0.0000	0.0000	3.84E-04
152	0.06	0.000	0.008	0.2451	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.83E-04
153	0.00	0.000	0.002	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.008	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.004	0.2435	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.82E-04
162	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.004	0.2431	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.81E-04
166	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.04	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.02	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.17	0.000	0.010	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.05	0.000	0.016	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.127	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.012	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.012	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.014	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.014	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.013	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.06	0.000	0.011	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.15	0.000	0.011	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.037	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.007	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.010	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.009	0.2441	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.80E-04
231	0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.010	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.22	0.000	0.010	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.106	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.104	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.00	0.000	0.009	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.008	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.008	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.003	0.2415	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.79E-04
252		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.25	0.000	0.008	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.123	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.006	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.007	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.007	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.49	0.000	0.014	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.03	0.000	0.132	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.219	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.171	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.030	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.006	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.16	0.000	0.014	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.006	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.025	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.021	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.013	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.011	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.13	0.000	0.016	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.040	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.018	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.025	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.024	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.016	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.09	0.000	0.017	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.01	0.000	0.011	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.43	0.000	0.022	0.2570	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.108	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.154	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.155	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.105	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.021	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.02	0.000	0.009	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.03	0.000	0.010	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.04	0.000	0.010	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.04	0.000	0.012	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.01	0.000	0.010	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.05	0.000	0.012	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.002	0.2444	0.0000	0.0000	6.87E-10	0.0000	0.0000	3.78E-04

343	*	0.20	0.000	0.045	0.2450	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.78E-04
344	*	0.00	0.000	0.045	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.070	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.008	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.009	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.008	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.000	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.14	0.000	0.011	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.02	0.000	0.014	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.01	0.000	0.011	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.007	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.007	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.007	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.008	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.009	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.009	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.009	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.010	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 18			
	inches	cubic feet	percent
Precipitation	5.15	1,307,863.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.090	1,293,473.5	98.90
Drainage Collected from Layer 6	0.0000	10.9	0.00
Percolation/Leakage through Layer 8	0.000000	0.0016	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.004200	1,067.3	0.08
Change in Water Storage	0.0524	13,311.3	1.02
Soil Water at Start of Year	1,040.0621	##########	20206.99
Soil Water at End of Year	1,040.1144	##########	20208.01
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 19

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.010	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.010	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.010	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.009	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.008	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.02	0.000	0.011	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.07	0.000	0.058	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.15	0.000	0.009	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.41	0.000	0.013	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.01	0.000	0.075	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.79	0.000	0.052	0.2573	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.24	0.000	0.028	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.037	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.041	0.2589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.00	0.000	0.025	0.2595	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21	*		0.00	0.000	0.034	0.2600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.037	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.057	0.2611	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.054	0.2753	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.12	0.000	0.119	0.2754	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.143	0.2714	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.140	0.2675	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.145	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.148	0.2594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.111	0.2563	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.169	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.208	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.134	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.03	0.000	0.012	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.01	0.000	0.013	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.50	0.000	0.031	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.068	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.000	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.048	0.2520	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.77E-04
51	*	0.00	0.000	0.000	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.099	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.00	0.000	0.069	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.108	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.062	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.015	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.05	0.000	0.010	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.005	0.2422	0.0000	0.0003	5.69E-09	0.0000	0.0000	3.76E-04
88		0.00	0.000	0.005	0.2420	0.0000	0.0001	1.35E-09	0.0000	0.0000	3.75E-04
89		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.005	0.2416	0.0000	0.0004	4.09E-09	0.0000	0.0000	3.74E-04
92	*	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.03	0.000	0.009	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.2415	0.0000	0.0000	6.67E-10	0.0000	0.0000	3.73E-04
121		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.12	0.000	0.009	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.002	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.21	0.000	0.013	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.136	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.010	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.010	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.010	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.011	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.011	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.010	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.012	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.003	0.2423	0.0000	0.0000	9.34E-10	0.0000	0.0000	3.72E-04
173	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.003	0.2419	0.0000	0.0000	2.94E-09	0.0000	0.0000	3.72E-04
178	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.19	0.000	0.009	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.09	0.000	0.009	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.135	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.010	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.27	0.000	0.018	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.183	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.010	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.012	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.012	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.014	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.014	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.011	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.09	0.000	0.011	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.002	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.008	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.005	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.24	0.000	0.011	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.185	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.012	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.014	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.015	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.015	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.017	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.017	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.007	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.05	0.000	0.011	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.34	0.000	0.012	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.172	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.116	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.013	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.014	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.016	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.003	0.2415	0.0000	0.0001	6.80E-10	0.0000	0.0000	3.71E-04
244	0.65	0.000	0.020	0.2591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.135	0.2554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.264	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.191	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.029	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.12	0.000	0.018	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.007	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.015	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.012	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.012	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.011	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.010	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.010	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.010	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.10	0.000	0.018	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.02	0.000	0.012	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.004	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.011	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.009	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.008	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.008	0.2429	0.0000	0.0000	6.89E-10	0.0000	0.0000	3.70E-04
268	0.00	0.000	0.008	0.2427	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.69E-04
269	0.00	0.000	0.007	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.006	0.2418	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.68E-04
274	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.2415	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.68E-04
278	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.19	0.000	0.011	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.019	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.060	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.014	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.013	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.010	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.005	0.2429	0.0000	0.0000	6.47E-10	0.0000	0.0000	3.67E-04
296	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.004	0.2427	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.66E-04
298	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.004	0.2425	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.65E-04
300	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.06	0.000	0.010	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.01	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.18	0.000	0.034	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.072	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.02	0.000	0.011	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.015	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.006	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.61	0.000	0.014	0.2613	0.0000	0.0000	4.24E-10	0.0000	0.0000	3.64E-04
351		0.36	0.000	0.043	0.2700	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.10	0.000	0.041	0.2705	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.04	0.000	0.022	0.2711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.054	0.2708	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.079	0.2686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.101	0.2658	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.090	0.2633	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.085	0.2609	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.00	0.000	0.045	0.2597	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.089	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.069	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.060	0.2536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.074	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.049	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.088	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 19			
	inches	cubic feet	percent
Precipitation	6.50	1,650,689.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	6.413	1,629,634.3	98.72
Drainage Collected from Layer 6	0.0009	234.7	0.01
Percolation/Leakage through Layer 8	0.000000	0.0057	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.005927	1,505.9	0.09
Change in Water Storage	0.0760	19,315.0	1.17
Soil Water at Start of Year	1,040.1144	##########	16011.07
Soil Water at End of Year	1,040.1905	##########	16012.24
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 20

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.057	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.04	0.000	0.107	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.03	0.000	0.092	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.13	0.000	0.019	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.09	0.000	0.021	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.060	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.068	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.037	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.030	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*			0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34				0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35	*			0.15	0.000	0.049	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*			0.12	0.000	0.065	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*			0.16	0.000	0.032	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*			0.00	0.000	0.039	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*			0.00	0.000	0.053	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*			0.00	0.000	0.045	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*			0.00	0.000	0.036	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42	*			0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*			0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*			0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		*		0.00	0.000	0.000	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52				0.00	0.000	0.012	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53				0.00	0.000	0.016	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54				0.00	0.000	0.006	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55				0.00	0.000	0.007	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56				0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57				0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58				0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59				0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60				0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61				0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62				0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.16	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.44	0.000	0.076	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.01	0.000	0.139	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.093	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.04	0.000	0.121	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	*	0.29	0.000	0.048	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	*	0.00	0.000	0.059	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.078	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.091	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.104	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.047	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.039	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.015	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	*	0.14	0.000	0.099	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	*	0.00	0.000	0.026	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.006	0.2418	0.0000	0.0002	1.82E-09	0.0000	0.0000	3.63E-04
114		0.01	0.000	0.009	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.02	0.000	0.012	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.14	0.000	0.014	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.004	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.011	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.011	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.012	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.013	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.006	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.005	0.2434	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.63E-04
127		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.004	0.2425	0.0000	0.0000	6.70E-10	0.0000	0.0000	3.62E-04
135		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.004	0.2416	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.61E-04
143		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.33	0.000	0.010	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.191	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.01	0.000	0.018	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.01	0.000	0.018	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.07	0.000	0.020	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.086	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.014	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.014	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.013	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.013	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.011	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.008	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.05	0.000	0.010	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.30	0.000	0.011	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.21	0.000	0.152	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.12	0.000	0.205	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.128	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.100	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.030	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.014	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.2415	0.0001	0.0003	7.20E-10	0.0000	0.0000	3.60E-04
220	0.00	0.000	0.001	0.2415	0.0000	0.0000	8.88E-16	0.0000	0.0000	3.60E-04
221	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.07	0.000	0.013	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.06	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.01	0.000	0.011	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.007	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.011	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.007	0.2429	0.0000	0.0000	1.34E-09	0.0000	0.0000	3.59E-04
235	0.00	0.000	0.007	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.007	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.000	0.2415	0.0000	0.0000	1.00E-09	0.0000	0.0000	3.58E-04
246		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.18	0.000	0.011	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.006	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.03	0.000	0.018	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.11	0.000	0.073	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.069	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.013	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	*	0.09	0.000	0.064	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.03	0.000	0.034	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.010	0.2457	0.0000	0.0000	6.76E-10	0.0000	0.0000	3.57E-04
279		0.00	0.000	0.009	0.2454	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.56E-04
280		0.00	0.000	0.009	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.010	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.011	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.011	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.012	0.2437	0.0000	0.0000	9.02E-10	0.0000	0.0000	3.56E-04
286		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.63	0.000	0.016	0.2603	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.55E-04
291		0.00	0.000	0.068	0.2584	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.54E-04
292		0.00	0.000	0.110	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.088	0.2529	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.082	0.2506	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.056	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.144	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.113	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.008	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.09	0.000	0.012	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.15	0.000	0.015	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.13	0.000	0.044	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.061	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.063	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.080	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.027	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.020	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.017	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.015	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.001	0.2415	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.53E-04
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.03	0.000	0.012	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.02	0.000	0.011	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.006	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.09	0.000	0.011	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.68	0.000	0.020	0.2618	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.044	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.32	0.000	0.069	0.2677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.074	0.2656	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.075	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.059	0.2619	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.07	0.000	0.057	0.2624	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.073	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 20			
	inches	cubic feet	percent
Precipitation	5.88	1,494,703.6	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.428	1,379,169.7	92.27
Drainage Collected from Layer 6	0.0006	153.8	0.01
Percolation/Leakage through Layer 8	0.000000	0.0027	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.005018	1,275.0	0.09
Change in Water Storage	0.4491	114,105.1	7.63
Soil Water at Start of Year	1,040.1905	##########	17683.27
Soil Water at End of Year	1,040.6395	##########	17690.90
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 21

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.105	0.2575	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.061	0.2557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.094	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.03	0.000	0.117	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.01	0.000	0.084	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.074	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.083	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.057	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.023	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.04	0.000	0.011	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.02	0.000	0.026	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.01	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.10	0.000	0.013	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.002	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.006	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.005	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.27	0.000	0.013	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.07	0.000	0.082	0.2506	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.28	0.000	0.086	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.110	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.114	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.188	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.053	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.25	0.000	0.050	0.2488	0.0000	0.0000	3.40E-09	0.0000	0.0000	3.53E-04
54		0.00	0.000	0.045	0.2475	0.0000	0.0000	6.21E-10	0.0000	0.0000	3.52E-04
55		0.00	0.000	0.039	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.040	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.035	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.016	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.014	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.010	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.34	0.000	0.012	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.49	0.000	0.064	0.2628	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.055	0.2612	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.072	0.2592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.116	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.146	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.231	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.119	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.008	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.001	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.05	0.000	0.014	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.02	0.000	0.013	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.09	0.000	0.013	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.015	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.010	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.009	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.006	0.2433	0.0000	0.0000	6.76E-10	0.0000	0.0000	3.51E-04
102	0.00	0.000	0.006	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.50E-04
103	0.00	0.000	0.006	0.2430	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.50E-04
104	0.00	0.000	0.006	0.2428	0.0000	0.0000	6.90E-10	0.0000	0.0000	3.49E-04
105	0.00	0.000	0.005	0.2426	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.48E-04
106	0.01	0.000	0.012	0.2427	0.0000	0.0000	6.89E-10	0.0000	0.0000	3.47E-04
107	0.01	0.000	0.009	0.2427	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.47E-04
108	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.005	0.2420	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.46E-04
114	0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.006	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.13	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.002	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.06	0.000	0.016	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.008	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.008	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.008	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.008	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.02	0.000	0.016	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.008	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.008	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.010	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.2431	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.45E-04
205	0.00	0.000	0.003	0.2430	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.45E-04
206	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.44E-04
208	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.003	0.2425	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.43E-04
213	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.003	0.2418	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.42E-04
220	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.003	0.2417	0.0000	0.0000	3.40E-09	0.0000	0.0000	3.42E-04
222	0.01	0.000	0.010	0.2418	0.0000	0.0000	6.71E-10	0.0000	0.0000	3.41E-04
223	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.06	0.000	0.012	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.38	0.000	0.012	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.194	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.009	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.009	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.009	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.009	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.008	0.2460	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.40E-04
241	0.00	0.000	0.008	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.009	0.2455	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.40E-04
243	0.00	0.000	0.008	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.008	0.2451	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.39E-04
245	0.00	0.000	0.009	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.010	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.009	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.009	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.006	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.17	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.002	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.005	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.005	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.005	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.005	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.005	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.006	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.006	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.006	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.006	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.006	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.006	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.006	0.2437	0.0000	0.0000	6.70E-10	0.0000	0.0000	3.38E-04
276	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.002	0.2429	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.38E-04
286	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 21			
	inches	cubic feet	percent
Precipitation	2.95	749,519.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	3.629	922,075.4	123.02
Drainage Collected from Layer 6	0.0000	10.6	0.00
Percolation/Leakage through Layer 8	0.000000	0.0064	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.007590	1,928.7	0.26
Change in Water Storage	-0.6867	-174,495.7	-23.28
Soil Water at Start of Year	1,040.6395	##########	35279.49
Soil Water at End of Year	1,039.9528	##########	35256.21
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 22

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.75	0.000	0.013	0.2621	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.14	0.000	0.089	0.2636	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.39	0.000	0.059	0.2727	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.05	0.000	0.085	0.2717	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.04	0.000	0.075	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.081	0.2684	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.123	0.2650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.178	0.2600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.167	0.2554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.154	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.168	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.158	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.06	0.000	0.013	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.08	0.000	0.013	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.36	0.000	0.015	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.09	0.000	0.062	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.50	0.000	0.048	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.132	0.2642	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.120	0.2608	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.093	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.074	0.2562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.114	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.108	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.128	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.122	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.033	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.008	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.01	0.000	0.009	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.09	0.000	0.015	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.010	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.14	0.000	0.018	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.005	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.016	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.016	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.019	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.020	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.005	0.2424	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.37E-04

98		0.00	0.000	0.005	0.2423	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.36E-04
99		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.005	0.2419	0.0000	0.0000	2.93E-09	0.0000	0.0000	3.35E-04
102	*	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.005	0.2416	0.0000	0.0000	2.27E-09	0.0000	0.0000	3.35E-04
104	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.34E-04
105		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	*	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.04	0.000	0.011	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.01	0.000	0.011	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.08	0.000	0.011	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.001	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.04	0.000	0.011	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.10	0.000	0.011	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.002	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.007	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.007	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.004	0.2436	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.33E-04
223	0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.003	0.2432	0.0000	0.0000	6.88E-10	0.0000	0.0000	3.33E-04
227	0.00	0.000	0.003	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.32E-04
228	0.00	0.000	0.003	0.2431	0.0000	0.0000	1.51E-09	0.0000	0.0000	3.31E-04
229	0.00	0.000	0.003	0.2430	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.31E-04
230	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.003	0.2420	0.0000	0.0000	2.94E-09	0.0000	0.0000	3.30E-04
241	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.14	0.000	0.013	0.2454	0.0000	0.0000	7.02E-10	0.0000	0.0000	3.29E-04
243	0.00	0.000	0.005	0.2454	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.29E-04
244	0.00	0.000	0.006	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.006	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.006	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.006	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.007	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.007	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.011	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.008	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.003	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.002	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.002	0.2429	0.0000	0.0000	1.80E-09	0.0000	0.0000	3.28E-04
265	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.002	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.33	0.000	0.012	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.39	0.000	0.104	0.2589	0.0000	0.0000	1.33E-09	0.0000	0.0000	3.27E-04
278	0.00	0.000	0.146	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.121	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.078	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.160	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.114	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.68	0.000	0.028	0.2597	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.08	0.000	0.112	0.2589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.155	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.128	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.141	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.126	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.058	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.05	0.000	0.034	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.25	0.000	0.018	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.069	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.01	0.000	0.050	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.040	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.033	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.010	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.011	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	*	0.00	0.000	0.000	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.006	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.09	0.000	0.048	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.04	0.000	0.035	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.009	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.12	0.000	0.012	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.002	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	*	0.21	0.000	0.052	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.23	0.000	0.029	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.09	0.000	0.031	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.05	0.000	0.000	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.053	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.060	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.065	0.2527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 22			
	inches	cubic feet	percent
Precipitation	5.75	1,462,219.6	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.353	1,360,161.7	93.02
Drainage Collected from Layer 6	0.0000	2.9429	0.00
Percolation/Leakage through Layer 8	0.000000	0.0043	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.004982	1,266.0	0.09
Change in Water Storage	0.3967	100,789.0	6.89
Soil Water at Start of Year	1,039.9528	##########	18071.98
Soil Water at End of Year	1,040.3494	##########	18078.87
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 23

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.051	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.076	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.047	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.000	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.054	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*	*	0.00	0.000	0.000	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15		*	0.00	0.000	0.000	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.23	0.000	0.079	0.2506	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.11	0.000	0.108	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.18	0.000	0.068	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.18	0.000	0.080	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.051	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.054	0.2538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.45	0.000	0.096	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.100	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.110	0.2577	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.089	0.2552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.107	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.144	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.079	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.066	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.061	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.016	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.24	0.000	0.013	0.2482	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.08	0.000	0.022	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.044	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.00	0.000	0.000	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.018	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.014	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.001	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.19	0.000	0.027	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.023	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.064	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.00	0.000	0.052	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.016	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.013	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.015	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.016	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.016	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.016	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.016	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.016	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.015	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.015	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.015	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.015	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.010	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.007	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.15	0.000	0.016	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.02	0.000	0.011	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.05	0.000	0.020	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.10	0.000	0.021	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.103	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.014	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.015	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.014	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.014	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	*	0.00	0.000	0.013	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.31	0.000	0.023	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.117	0.2498	0.0000	0.0001	6.76E-10	0.0000	0.0000	3.27E-04
86		0.00	0.000	0.184	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.16	0.000	0.093	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.032	0.2459	0.0001	0.0005	2.96E-09	0.0000	0.0000	3.26E-04
89		0.28	0.000	0.052	0.2524	0.0000	0.0000	6.77E-10	0.0000	0.0000	3.26E-04
90		0.00	0.000	0.208	0.2466	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.25E-04
91		0.00	0.000	0.048	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.043	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.043	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.04	0.000	0.052	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.014	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.013	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.24	0.000	0.014	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.015	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.015	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.015	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.018	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.019	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.020	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.021	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.022	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.015	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.007	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.006	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.08	0.000	0.013	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.002	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.004	0.2424	0.0000	0.0000	6.27E-10	0.0000	0.0000	3.24E-04
152		0.00	0.000	0.005	0.2423	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.24E-04
153		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.29	0.000	0.012	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.132	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.06	0.000	0.023	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.017	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.018	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.020	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.019	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.016	0.2441	0.0000	0.0000	6.50E-10	0.0000	0.0000	3.23E-04
207	0.00	0.000	0.015	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.006	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.10	0.000	0.015	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.002	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.010	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.012	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.015	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.19	0.000	0.017	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.111	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.102	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.018	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.016	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.13	0.000	0.013	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.044	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.013	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.019	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.017	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.012	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.001	0.2415	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.22E-04
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.11	0.000	0.012	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.032	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.006	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.006	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.000	0.2415	0.0000	0.0000	6.49E-10	0.0000	0.0000	3.22E-04
295		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.09	0.000	0.013	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.11	0.000	0.022	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		1.21	0.000	0.084	0.2773	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.050	0.2759	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	*	0.00	0.000	0.038	0.2748	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.077	0.2727	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.149	0.2685	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.094	0.2659	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.080	0.2637	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.109	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.155	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.157	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.079	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.051	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.000	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.080	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.049	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.047	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.044	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.001	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.001	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.01	0.000	0.014	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 23			
	inches	cubic feet	percent
Precipitation	5.42	1,376,742.4	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.819	1,478,652.1	107.40
Drainage Collected from Layer 6	0.0006	145.2	0.01
Percolation/Leakage through Layer 8	0.000000	0.0019	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.002919	741.6	0.05
Change in Water Storage	-0.4046	-102,796.5	-7.47
Soil Water at Start of Year	1,040.3494	##########	19201.33
Soil Water at End of Year	1,039.9449	##########	19193.86
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 24

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.13	0.000	0.045	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.063	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10	*		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11	*		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12	*		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.03	0.000	0.012	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.12	0.000	0.013	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.016	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.033	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.017	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.33	0.000	0.036	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.056	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.061	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.04	0.000	0.083	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.05	0.000	0.052	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.071	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.084	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.031	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.015	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.21	0.000	0.015	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.028	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.083	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.035	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.021	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.008	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.01	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.15	0.000	0.013	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.01	0.000	0.030	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.03	0.000	0.065	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.012	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.005	0.2423	0.0000	0.0003	4.09E-09	0.0000	0.0000	3.21E-04
80		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.01	0.000	0.009	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.04	0.000	0.013	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.02	0.000	0.011	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.05	0.000	0.015	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.002	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.004	0.2431	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.20E-04
96		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.004	0.2428	0.0000	0.0000	3.40E-09	0.0000	0.0000	3.20E-04

98		0.00	0.000	0.004	0.2428	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.19E-04
99		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.09	0.000	0.014	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.002	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.06	0.000	0.015	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.043	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.007	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.011	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.010	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.010	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.07	0.000	0.013	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.001	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.003	0.2429	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.19E-04
191	0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.10	0.000	0.014	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.06	0.000	0.057	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.03	0.000	0.045	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.060	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.12	0.000	0.018	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.02	0.000	0.092	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.009	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.05	0.000	0.020	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.00	0.000	0.062	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.00	0.000	0.007	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.007	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.15	0.000	0.013	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.03	0.000	0.064	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.077	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.16	0.000	0.018	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.04	0.000	0.054	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.00	0.000	0.068	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.072	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.008	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.002	0.2415	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.18E-04
231		0.00	0.000	0.000	0.2415	0.0000	0.0000	6.77E-10	0.0000	0.0000	3.17E-04
232		0.00	0.000	0.000	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.17E-04
233		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.65	0.000	0.017	0.2591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.35	0.000	0.135	0.2650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.06	0.000	0.242	0.2599	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.26	0.000	0.224	0.2609	0.0000	0.0000	9.02E-10	0.0000	0.0000	3.16E-04
250		0.08	0.000	0.294	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.222	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.137	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.083	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.035	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.36	0.000	0.015	0.2510	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.23	0.000	0.099	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.143	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.163	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.145	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.016	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.31	0.000	0.016	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.112	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.107	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.024	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.010	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.006	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.21	0.000	0.014	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.029	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.073	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.015	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.013	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.010	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	*	1.00	0.000	0.037	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	*	0.00	0.000	0.045	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2672	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.075	0.2651	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.056	0.2636	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.088	0.2611	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.072	0.2591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.071	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.056	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.074	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.087	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.053	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	*	0.00	0.000	0.041	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.036	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.041	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.08	0.000	0.046	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.012	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.040	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.08	0.000	0.045	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	*	0.00	0.000	0.049	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	*	0.00	0.000	0.038	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	*	0.00	0.000	0.000	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.047	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.033	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.014	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.24	0.000	0.040	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.083	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.004	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.013	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 24			
	inches	cubic feet	percent
Precipitation	6.14	1,561,289.2	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	6.036	1,533,781.9	98.24
Drainage Collected from Layer 6	0.0003	73.3	0.00
Percolation/Leakage through Layer 8	0.000000	0.0030	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.002868	728.7	0.05
Change in Water Storage	0.1051	26,705.3	1.71
Soil Water at Start of Year	1,039.9449	##########	16925.11
Soil Water at End of Year	1,040.0500	##########	16926.83
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 25

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1	*		0.00	0.000	0.000	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3	*		0.02	0.000	0.022	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.015	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.00	0.000	0.000	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.009	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.007	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15	*		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.006	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.006	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.03	0.000	0.015	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.11	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.003	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.011	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.008	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.008	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.000	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26	*		0.00	0.000	0.000	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.009	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.006	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.05	0.000	0.013	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.04	0.000	0.043	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.003	0.2417	0.0000	0.0001	2.95E-09	0.0000	0.0000	3.16E-04
78		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.07	0.000	0.013	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.003	0.2428	0.0000	0.0001	6.76E-10	0.0000	0.0000	3.15E-04
87		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.003	0.2426	0.0000	0.0000	6.75E-10	0.0000	0.0000	3.14E-04
89		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.08	0.000	0.078	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.11	0.000	0.015	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.34	0.000	0.014	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.074	0.2523	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.101	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.106	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.083	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.080	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.013	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.07	0.000	0.014	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.002	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.2424	0.0000	0.0000	6.47E-10	0.0000	0.0000	3.14E-04
139	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.07	0.000	0.016	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.002	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.2430	0.0000	0.0000	1.79E-09	0.0000	0.0000	3.13E-04
148	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.004	0.2428	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.13E-04
150	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.004	0.2426	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.12E-04
152	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.004	0.2421	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.11E-04
156	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.003	0.2415	0.0000	0.0000	7.12E-10	0.0000	0.0000	3.11E-04
162	0.00	0.000	0.001	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.10E-04
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	7.62E-10	0.0000	0.0000	3.10E-04
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	3.09E-04
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.01	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.08	0.000	0.013	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.25	0.000	0.014	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.144	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.008	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.009	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.008	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.009	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.009	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.009	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.009	0.2435	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.08E-04
259	0.00	0.000	0.010	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.010	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.002	0.2426	0.0000	0.0000	6.68E-10	0.0000	0.0000	3.08E-04
265	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.002	0.2424	0.0000	0.0000	1.81E-09	0.0000	0.0000	3.07E-04
269	0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.25	0.000	0.014	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.082	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.098	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.008	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.008	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.008	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	*	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.07E-04
295		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.002	0.2416	0.0000	0.0001	5.21E-09	0.0000	0.0000	3.06E-04
298		0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2415	0.0000	0.0000	1.78E-09	0.0000	0.0000	3.06E-04
302		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.05	0.000	0.013	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.002	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.08	0.000	0.014	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.18	0.000	0.013	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.051	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.066	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.068	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.023	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.022	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.019	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.013	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.06	0.000	0.015	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.08	0.000	0.042	0.2422	0.0000	0.0000	4.47E-10	0.0000	0.0000	3.05E-04
350	*	0.03	0.000	0.047	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.005	0.2420	0.0000	0.0000	2.56E-10	0.0000	0.0000	3.04E-04
353	*	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.04	0.000	0.044	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.15	0.000	0.014	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.002	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.009	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.009	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.010	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 25			
	inches	cubic feet	percent
Precipitation	2.29	581,747.7	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	2.294	582,938.0	100.20
Drainage Collected from Layer 6	0.0002	62.3	0.01
Percolation/Leakage through Layer 8	0.000000	0.0058	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.006198	1,575.0	0.27
Change in Water Storage	-0.0111	-2,827.6	-0.49
Soil Water at Start of Year	1,040.0500	##########	45428.06
Soil Water at End of Year	1,040.0389	##########	45427.57
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 26

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.02	0.000	0.014	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.002	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.12	0.000	0.016	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.58	0.000	0.081	0.2601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.082	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.071	0.2558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.061	0.2541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.092	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.059	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.106	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.078	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			1.39	0.000	0.089	0.2809	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.104	0.2781	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.121	0.2747	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.129	0.2711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.108	0.2681	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.136	0.2644	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.089	0.2619	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.053	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.076	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.136	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.077	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.105	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.080	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		1.31	0.000	0.130	0.2799	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.109	0.2769	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.114	0.2737	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.158	0.2693	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.201	0.2638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.114	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.128	0.2571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.093	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.084	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.075	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.086	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.087	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.073	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.29	0.000	0.017	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.73	0.000	0.042	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.031	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.059	0.2673	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.045	0.2661	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.142	0.2621	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.075	0.2601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.066	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.000	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.00	0.000	0.000	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.082	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	*	0.00	0.000	0.000	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.102	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.115	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.133	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.104	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.001	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.002	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.02	0.000	0.015	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.001	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.001	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.16	0.000	0.016	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.14	0.000	0.033	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.118	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.086	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.019	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.010	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.009	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.008	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.006	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.002	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.002	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.03	0.000	0.016	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.03	0.000	0.012	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.01	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.23	0.000	0.013	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.100	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.007	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.011	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.011	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.012	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.011	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.011	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.010	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.008	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203		0.02	0.000	0.015	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204		0.01	0.000	0.008	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205		0.10	0.000	0.014	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206		0.00	0.000	0.035	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207		0.00	0.000	0.007	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208		0.22	0.000	0.022	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209		0.00	0.000	0.131	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210		0.03	0.000	0.121	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211		0.22	0.000	0.024	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212		0.00	0.000	0.154	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213		0.00	0.000	0.074	0.2427	0.0000	0.0000	6.51E-10	0.0000	0.0000	3.04E-04
214		0.00	0.000	0.015	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215		0.00	0.000	0.015	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216		0.00	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217		0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225		0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226		0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227		0.06	0.000	0.014	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228		0.00	0.000	0.002	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.000	0.2415	0.0000	0.0000	1.80E-09	0.0000	0.0000	3.03E-04
246		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.15	0.000	0.013	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.019	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.075	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.27	0.000	0.017	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.50	0.000	0.125	0.2597	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.161	0.2552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.103	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.145	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.124	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.087	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.029	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.74	0.000	0.044	0.2611	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.09	0.000	0.062	0.2619	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.05	0.000	0.085	0.2608	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.109	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.086	0.2554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.102	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.125	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.106	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.094	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.057	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.007	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.17	0.000	0.019	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.06	0.000	0.018	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.062	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.026	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.031	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.011	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.04	0.000	0.022	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.08	0.000	0.021	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.004	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.016	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.012	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.010	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.007	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.005	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.005	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.18	0.000	0.014	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.002	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.010	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.12	0.000	0.022	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.20	0.000	0.068	0.2525	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.19	0.000	0.067	0.2558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.08	0.000	0.055	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.01	0.000	0.051	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.093	0.2527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.074	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.052	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.057	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.059	0.2460	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.046	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.21	0.000	0.068	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.10	0.000	0.065	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.054	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.053	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.053	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.046	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.023	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	*	0.00	0.000	0.000	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.015	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.013	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.011	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.011	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 26			
	inches	cubic feet	percent
Precipitation	8.98	2,282,144.4	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	9.069	2,304,542.3	100.98
Drainage Collected from Layer 6	0.0000	0.1868	0.00
Percolation/Leakage through Layer 8	0.000000	0.0006	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.000607	154.3	0.01
Change in Water Storage	-0.0888	-22,552.4	-0.99
Soil Water at Start of Year	1,040.0389	##########	11580.07
Soil Water at End of Year	1,039.9501	##########	11579.08
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 27

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.29	0.000	0.015	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.01	0.000	0.076	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.061	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.020	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.019	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.019	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.017	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.011	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.007	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.005	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.14	0.000	0.042	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19	*		0.00	0.000	0.049	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.017	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25	*		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.004	0.2426	0.0000	0.0000	1.74E-09	0.0000	0.0000	3.03E-04
38		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.007	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.12	0.000	0.014	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.22	0.000	0.014	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.080	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.126	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.014	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.09	0.000	0.025	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.14	0.000	0.026	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.097	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.013	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57	*	1.33	0.000	0.052	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58	*	0.00	0.000	0.051	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.000	0.2806	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.072	0.2786	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.177	0.2736	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.105	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.201	0.2651	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.02E-04
64		0.00	0.000	0.206	0.2594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.124	0.2559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.156	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.197	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.121	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.000	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	*	0.00	0.000	0.000	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.001	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.27	0.000	0.017	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.01	0.000	0.092	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.027	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.025	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.026	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.022	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.010	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.009	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.04	0.000	0.019	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.01	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.23	0.000	0.018	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.13	0.000	0.118	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.14	0.000	0.148	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.089	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.115	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.047	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.030	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.17	0.000	0.015	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.003	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.015	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.016	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.23	0.000	0.029	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.124	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.136	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.024	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.024	0.2418	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.02E-04
116	0.00	0.000	0.008	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.02	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.01	0.000	0.007	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.06	0.000	0.013	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.002	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.13	0.000	0.016	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.002	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.008	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.008	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.008	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.010	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.012	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.013	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.013	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.005	0.2432	0.0000	0.0000	6.74E-10	0.0000	0.0000	3.01E-04
202	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.05	0.000	0.016	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.002	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.004	0.2432	0.0000	0.0000	6.72E-10	0.0000	0.0000	3.00E-04
212	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.03	0.000	0.015	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.01	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.06	0.000	0.014	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.002	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.005	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.01	0.000	0.013	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.002	0.2437	0.0000	0.0000	6.73E-10	0.0000	0.0000	3.00E-04
228	0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.39	0.000	0.016	0.2536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.28	0.000	0.237	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.224	0.2485	0.0000	0.0000	4.54E-09	0.0000	0.0000	2.99E-04
236	0.00	0.000	0.207	0.2428	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.99E-04
237	0.00	0.000	0.037	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.005	0.2416	0.0000	0.0000	6.77E-10	0.0000	0.0000	2.98E-04
239	0.00	0.000	0.003	0.2415	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.98E-04
240	0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.17	0.000	0.016	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.12	0.000	0.016	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.04	0.000	0.109	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.20	0.000	0.076	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.154	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.082	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.04	0.000	0.061	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.012	0.2428	0.0000	0.0001	6.81E-10	0.0000	0.0000	2.97E-04
260	0.00	0.000	0.018	0.2423	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.97E-04
261	0.00	0.000	0.014	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.011	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.43	0.000	0.017	0.2529	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.106	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.114	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.087	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.063	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.028	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.12	0.000	0.017	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.20	0.000	0.017	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.074	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.075	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.025	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.024	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.021	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.009	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.007	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.007	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.007	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.01	0.000	0.011	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.02	0.000	0.014	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.006	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.04	0.000	0.017	0.2426	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.96E-04
296	0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.005	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.005	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.005	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.31	0.000	0.017	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.051	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.076	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.109	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.034	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.021	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.01	0.000	0.006	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	*	0.01	0.000	0.013	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.13	0.000	0.015	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.002	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.010	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.000	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	*	0.00	0.000	0.000	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.012	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.005	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.006	0.2438	0.0000	0.0000	3.40E-09	0.0000	0.0000	2.96E-04
346		0.00	0.000	0.005	0.2436	0.0000	0.0000	6.66E-10	0.0000	0.0000	2.95E-04
347		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.004	0.2426	0.0000	0.0000	4.68E-10	0.0000	0.0000	2.95E-04
356		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.01	0.000	0.012	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.12	0.000	0.014	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.01	0.000	0.009	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.008	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.008	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.008	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.009	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.010	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 27			
	inches	cubic feet	percent
Precipitation	6.59	1,675,388.5	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	6.513	1,655,042.4	98.79
Drainage Collected from Layer 6	0.0002	47.0	0.00
Percolation/Leakage through Layer 8	0.000000	0.0043	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.004777	1,213.9	0.07
Change in Water Storage	0.0751	19,085.2	1.14
Soil Water at Start of Year	1,039.9501	##########	15772.54
Soil Water at End of Year	1,040.0252	##########	15773.68
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 28

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.03	0.000	0.019	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.04	0.000	0.014	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.002	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4	*		0.00	0.000	0.007	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.007	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.008	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.009	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.009	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13	*		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14	*		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16	*		0.00	0.000	0.003	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17	*		0.00	0.000	0.003	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18	*		0.00	0.000	0.000	0.2431	0.0000	0.0000	5.06E-10	0.0000	0.0000	2.94E-04
19	*		0.00	0.000	0.000	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20	*		0.72	0.000	0.022	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.06	0.000	0.000	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22	*		0.00	0.000	0.036	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23	*		0.00	0.000	0.040	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24	*		0.00	0.000	0.055	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.036	0.2578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.123	0.2562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.103	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.126	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.149	0.2457	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.04	0.000	0.133	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.02	0.000	0.043	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.014	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.012	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.25	0.000	0.050	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.01	0.000	0.000	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41	*	0.00	0.000	0.062	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.080	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.008	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.007	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.10	0.000	0.019	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.25	0.000	0.016	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.110	0.2484	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.145	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.024	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.017	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.26	0.000	0.030	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.070	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.019	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.021	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.019	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.018	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.06	0.000	0.060	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.018	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.017	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	*	0.00	0.000	0.017	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.015	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	*	0.02	0.000	0.023	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.004	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.12	0.000	0.023	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.003	0.2462	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.011	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.012	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.014	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.015	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	*	0.00	0.000	0.015	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.011	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.06	0.000	0.017	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.005	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.10	0.000	0.019	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.35	0.000	0.055	0.2470	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.069	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.194	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.05	0.000	0.022	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.013	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.010	0.2473	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.009	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.010	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.011	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.012	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	*	0.00	0.000	0.012	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.012	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.013	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.012	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.012	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.013	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.012	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.013	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.012	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.007	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.006	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.004	0.2424	0.0000	0.0000	6.74E-10	0.0000	0.0000	2.93E-04
109	0.00	0.000	0.004	0.2423	0.0000	0.0000	7.63E-10	0.0000	0.0000	2.93E-04
110	0.00	0.000	0.004	0.2422	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.92E-04
111	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.004	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.04	0.000	0.014	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.01	0.000	0.010	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.16	0.000	0.014	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.02	0.000	0.015	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.01	0.000	0.012	0.2466	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.008	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.008	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133		0.00	0.000	0.009	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134		0.00	0.000	0.011	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135		0.00	0.000	0.011	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136		0.00	0.000	0.011	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137		0.00	0.000	0.013	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138		0.00	0.000	0.013	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139		0.00	0.000	0.014	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140		0.00	0.000	0.013	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141		0.00	0.000	0.009	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142		0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146		0.00	0.000	0.004	0.2426	0.0000	0.0000	6.49E-10	0.0000	0.0000	2.92E-04
147		0.00	0.000	0.004	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151		0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152		0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153		0.00	0.000	0.005	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154		0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155		0.00	0.000	0.004	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156		0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.14	0.000	0.015	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.17	0.000	0.015	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.08	0.000	0.159	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.090	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.020	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.023	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.020	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.017	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.016	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.38	0.000	0.016	0.2516	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.11	0.000	0.216	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.07	0.000	0.105	0.2475	0.0000	0.0000	6.46E-10	0.0000	0.0000	2.91E-04
227	0.00	0.000	0.087	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.04	0.000	0.029	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.013	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.014	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.012	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.015	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.009	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.007	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	1.35	0.000	0.024	0.2801	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.203	0.2745	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.198	0.2690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.261	0.2617	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.91E-04
240		0.00	0.000	0.271	0.2542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.350	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242		0.00	0.000	0.090	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243		0.00	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.006	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		1.07	0.000	0.033	0.2702	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.095	0.2676	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.08	0.000	0.118	0.2666	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.138	0.2628	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.103	0.2599	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.104	0.2570	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.212	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.291	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.01	0.000	0.053	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.005	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.02	0.000	0.013	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.92	0.000	0.025	0.2663	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.35	0.000	0.064	0.2743	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.129	0.2707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.134	0.2670	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.215	0.2610	0.0000	0.0000	1.33E-09	0.0000	0.0000	2.90E-04
295		0.00	0.000	0.207	0.2552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.171	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.138	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.142	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.029	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.11	0.000	0.019	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.019	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.036	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.020	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	0.00	0.000	0.010	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	0.01	0.000	0.012	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.000	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.000	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.001	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.02	0.000	0.011	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 28			
	inches	cubic feet	percent
Precipitation	7.72	1,960,974.9	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	7.807	1,983,859.4	101.17
Drainage Collected from Layer 6	0.0000	2.7811	0.00
Percolation/Leakage through Layer 8	0.000000	0.0013	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.002337	593.9	0.03
Change in Water Storage	-0.0924	-23,481.2	-1.20
Soil Water at Start of Year	1,040.0252	##########	13476.48
Soil Water at End of Year	1,039.9328	##########	13475.28
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 29

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5	*		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.17	0.000	0.037	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7	*		0.32	0.000	0.000	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8	*		0.00	0.000	0.058	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.047	0.2513	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.037	0.2502	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.050	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.088	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.104	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.040	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			1.28	0.000	0.076	0.2760	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.01	0.000	0.076	0.2743	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.04	0.000	0.117	0.2723	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.128	0.2687	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.163	0.2642	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.211	0.2583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.143	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.43	0.000	0.145	0.2622	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.126	0.2588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.04	0.000	0.103	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.084	0.2548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.122	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.078	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28	*	0.00	0.000	0.049	0.2479	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.080	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.093	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.020	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.03	0.000	0.016	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.004	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.008	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.000	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.14	0.000	0.064	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53	*	0.46	0.000	0.000	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.063	0.2555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55	*	0.01	0.000	0.045	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56	*	0.05	0.000	0.060	0.2541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.41	0.000	0.071	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.11	0.000	0.094	0.2638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.00	0.000	0.116	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.149	0.2565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.077	0.2543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.126	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.132	0.2471	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.136	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.027	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.007	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.002	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.001	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.40	0.000	0.019	0.2530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.08	0.000	0.165	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.152	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.02	0.000	0.108	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.02	0.000	0.043	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.10	0.000	0.026	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.25	0.000	0.021	0.2518	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.115	0.2486	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.110	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.041	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.023	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.014	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.011	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.010	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	*	0.00	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	*	0.00	0.000	0.000	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	*	0.00	0.000	0.000	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.002	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.03	0.000	0.017	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.007	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.002	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.07	0.000	0.017	0.2436	0.0001	0.0005	4.10E-09	0.0000	0.0000	2.90E-04

98	0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.008	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.008	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.008	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.009	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.009	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.008	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.006	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.47	0.000	0.018	0.2541	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.89E-04
109	0.00	0.000	0.161	0.2497	0.0000	0.0000	6.47E-10	0.0000	0.0000	2.89E-04
110	0.00	0.000	0.218	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.06	0.000	0.033	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.08	0.000	0.031	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.020	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.020	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.020	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.009	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.13	0.000	0.018	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.011	0.2465	0.0000	0.0000	6.82E-10	0.0000	0.0000	2.88E-04
121	0.00	0.000	0.011	0.2462	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.88E-04
122	0.00	0.000	0.011	0.2459	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.012	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.013	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.014	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.014	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.015	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.016	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.006	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.005	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.005	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.005	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.005	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.005	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.005	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.004	0.2418	0.0000	0.0000	6.88E-10	0.0000	0.0000	2.87E-04
142	0.03	0.000	0.016	0.2421	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.87E-04
143	0.00	0.000	0.002	0.2420	0.0000	0.0000	9.65E-10	0.0000	0.0000	2.86E-04
144	0.00	0.000	0.005	0.2419	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.86E-04
145	0.00	0.000	0.005	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.004	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.001	0.2415	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.85E-04
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.13	0.000	0.015	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.002	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.11	0.000	0.021	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.77	0.000	0.122	0.2654	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.27	0.000	0.136	0.2690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.65	0.000	0.281	0.2794	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.06	0.000	0.218	0.2749	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.18	0.000	0.395	0.2688	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.315	0.2602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.314	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.302	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.05	0.000	0.076	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.016	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.015	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.10	0.000	0.017	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.003	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.008	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.007	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.007	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.007	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.006	0.2428	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.85E-04
248	0.00	0.000	0.006	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.006	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.006	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.006	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.01	0.000	0.011	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.13	0.000	0.017	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.024	0.2447	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.011	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.017	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.015	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.005	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.005	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.005	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.19	0.000	0.018	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.073	0.2457	0.0000	0.0000	6.49E-10	0.0000	0.0000	2.84E-04
263	0.00	0.000	0.086	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.014	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.015	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.014	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.013	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.006	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.02	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.16	0.000	0.015	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.06	0.000	0.031	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.047	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.050	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.010	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.009	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.003	0.2427	0.0000	0.0001	2.95E-09	0.0000	0.0000	2.84E-04
305		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.08	0.000	0.016	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.001	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	*	0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	*	0.00	0.000	0.000	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.00	0.000	0.000	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	*	0.00	0.000	0.000	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.006	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	*	0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	*	0.00	0.000	0.000	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	*	0.00	0.000	0.000	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.004	0.2432	0.0000	0.0000	1.13E-09	0.0000	0.0000	2.83E-04
329	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	6.62E-10	0.0000	0.0000	2.83E-04
330		0.00	0.000	0.003	0.2431	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.82E-04
331		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.00	0.000	0.003	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.02	0.000	0.013	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	*	0.00	0.000	0.001	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.002	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.002	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.002	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.002	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 29			
	inches	cubic feet	percent
Precipitation	8.27	2,100,851.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	8.272	2,101,863.7	100.05
Drainage Collected from Layer 6	0.0007	167.8	0.01
Percolation/Leakage through Layer 8	0.000000	0.0039	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.004576	1,162.8	0.06
Change in Water Storage	-0.0092	-2,343.2	-0.11
Soil Water at Start of Year	1,039.9328	##########	12578.09
Soil Water at End of Year	1,039.9236	##########	12577.98
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Daily Output for Year 30

Column key: Head #1: drainage from Layer 7

Title: MOHAVE VALLEY LANDFILL - S3

Drain #1: drainage from Layer 6

Simulated On: 12/11/2025 10:36

Leak #1: leakage thru Layer 8 Leak #2: leakage thru Layer 9

Day	Freezing Status*		Rain	Runoff	ET	Evap. Zone Water	Head #1	Drain #1	Leak #1	Head #2	Drain #2	Leak #2
	Air	Soil	(inches)	(inches)	(inches)	(in/in)	(inches)	(inches)	(inches)	(inches)	(inches)	(inches)
1			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2	*		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.16	0.000	0.014	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.06	0.000	0.022	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.044	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.039	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.017	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9	*		0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.023	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.019	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.014	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.014	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.011	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.88	0.000	0.036	0.2651	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.075	0.2630	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.057	0.2614	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.087	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.126	0.2555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.114	0.2524	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.111	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.065	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.049	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.34	0.000	0.088	0.2532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.100	0.2504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.094	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.072	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.080	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.035	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.00	0.000	0.026	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.00	0.000	0.004	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.07	0.000	0.017	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.22	0.000	0.017	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.076	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.068	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.022	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.014	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.009	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.000	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.10	0.000	0.021	0.2456	0.0000	0.0000	1.80E-09	0.0000	0.0000	2.82E-04
48	*	0.00	0.000	0.000	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.031	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.017	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.010	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.009	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.007	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.006	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.006	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.006	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.006	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.00	0.000	0.006	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59	*	0.02	0.000	0.026	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.49	0.000	0.025	0.2555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.073	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.071	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.100	0.2488	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.121	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.00	0.000	0.082	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.040	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.010	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.001	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.001	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	*	0.00	0.000	0.000	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	*	0.10	0.000	0.096	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	*	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110		0.01	0.000	0.010	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111		0.12	0.000	0.015	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112		0.00	0.000	0.002	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113		0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114		0.00	0.000	0.006	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	*	0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	*	0.00	0.000	0.000	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	*	0.00	0.000	0.008	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118		0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119		0.00	0.000	0.005	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120		0.00	0.000	0.005	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122		0.00	0.000	0.004	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123		0.00	0.000	0.004	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124		0.00	0.000	0.004	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125		0.00	0.000	0.004	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127		0.00	0.000	0.004	0.2427	0.0000	0.0000	1.80E-09	0.0000	0.0000	2.81E-04
128		0.00	0.000	0.004	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129		0.00	0.000	0.004	0.2425	0.0000	0.0000	6.48E-10	0.0000	0.0000	2.81E-04
130		0.00	0.000	0.004	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131		0.00	0.000	0.004	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132		0.00	0.000	0.004	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.004	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.004	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.004	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.003	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.03	0.000	0.013	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.07	0.000	0.015	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.03	0.000	0.014	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.001	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.005	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.2435	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.80E-04
193	0.06	0.000	0.016	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.19	0.000	0.015	0.2496	0.0000	0.0000	6.87E-10	0.0000	0.0000	2.80E-04
195	0.00	0.000	0.120	0.2463	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.79E-04
196	0.00	0.000	0.095	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.011	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.011	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.011	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.011	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.008	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.004	0.2421	0.0000	0.0000	6.75E-10	0.0000	0.0000	2.79E-04

203	0.00	0.000	0.003	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.003	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.003	0.2418	0.0000	0.0000	4.07E-09	0.0000	0.0000	2.78E-04
207	0.00	0.000	0.003	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.003	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.002	0.2415	0.0000	0.0000	4.54E-09	0.0000	0.0000	2.78E-04
210	0.00	0.000	0.001	0.2415	0.0000	0.0000	6.72E-10	0.0000	0.0000	2.77E-04
211	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.01	0.000	0.009	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.001	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.43	0.000	0.015	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.112	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.157	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.119	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.019	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.005	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.12	0.000	0.024	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.008	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.015	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.012	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.011	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.010	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.010	0.2426	0.0000	0.0000	3.40E-09	0.0000	0.0000	2.77E-04
236	0.00	0.000	0.009	0.2423	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.76E-04
237	0.00	0.000	0.009	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238		0.00	0.000	0.008	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239		0.00	0.000	0.008	0.2416	0.0000	0.0000	6.73E-10	0.0000	0.0000	2.76E-04
240		0.05	0.000	0.021	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241		0.00	0.000	0.004	0.2423	0.0000	0.0000	6.87E-10	0.0000	0.0000	2.76E-04
242		0.00	0.000	0.007	0.2421	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.75E-04
243		0.00	0.000	0.007	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244		0.00	0.000	0.007	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245		0.00	0.000	0.006	0.2415	0.0000	0.0000	6.47E-10	0.0000	0.0000	2.75E-04
246		0.00	0.000	0.002	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269		0.00	0.000	0.000	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270		0.04	0.000	0.015	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271		0.10	0.000	0.016	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272		0.00	0.000	0.002	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.009	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.006	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.00	0.000	0.006	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.005	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.15	0.000	0.019	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.04	0.000	0.062	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.067	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.014	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.014	0.2441	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.010	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.007	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.005	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.004	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.004	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.004	0.2432	0.0000	0.0000	6.87E-10	0.0000	0.0000	2.74E-04
288		0.00	0.000	0.004	0.2431	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.74E-04
289		0.00	0.000	0.004	0.2430	0.0000	0.0000	6.95E-10	0.0000	0.0000	2.73E-04
290		0.00	0.000	0.004	0.2429	0.0000	0.0000	4.44E-16	0.0000	0.0000	2.73E-04
291		0.00	0.000	0.004	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.04	0.000	0.016	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	*	0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302		0.00	0.000	0.003	0.2426	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.003	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.003	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305		0.00	0.000	0.003	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306		0.00	0.000	0.003	0.2422	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307		0.11	0.000	0.017	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308		0.00	0.000	0.005	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309		0.00	0.000	0.007	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.007	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.007	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.008	0.2440	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.00	0.000	0.004	0.2439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.004	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.004	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.004	0.2436	0.0000	0.0000	2.94E-09	0.0000	0.0000	2.72E-04
317		0.00	0.000	0.003	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.003	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.003	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.003	0.2432	0.0000	0.0000	1.13E-09	0.0000	0.0000	2.72E-04
321	*	0.00	0.000	0.003	0.2432	0.0000	0.0000	6.71E-10	0.0000	0.0000	2.71E-04
322	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	*	0.00	0.000	0.000	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.003	0.2431	0.0000	0.0000	6.72E-10	0.0000	0.0000	2.71E-04
325		0.00	0.000	0.003	0.2430	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.003	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.003	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.003	0.2427	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330	*	0.17	0.000	0.032	0.2432	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331	*	0.27	0.000	0.017	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332	*	0.00	0.000	0.025	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	*	0.06	0.000	0.018	0.2449	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	*	0.02	0.000	0.013	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.36	0.000	0.000	0.2641	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.000	0.2641	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	*	0.00	0.000	0.000	0.2641	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.047	0.2628	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.076	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.050	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.074	0.2573	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.061	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343		0.02	0.000	0.088	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344		0.06	0.000	0.061	0.2538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	*	0.00	0.000	0.041	0.2527	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.076	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.056	0.2490	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	*	0.00	0.000	0.033	0.2481	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.061	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.050	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.00	0.000	0.055	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.00	0.000	0.054	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	*	0.00	0.000	0.000	0.2420	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.00	0.000	0.009	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.000	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	*	0.15	0.000	0.038	0.2423	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.12	0.000	0.058	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	*	0.01	0.000	0.006	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	*	0.01	0.000	0.014	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362		0.00	0.000	0.033	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	*	0.00	0.000	0.000	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 30			
	inches	cubic feet	percent
Precipitation	5.31	1,350,531.8	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	5.159	1,310,966.6	97.07
Drainage Collected from Layer 6	0.0001	16.0	0.00
Percolation/Leakage through Layer 8	0.000000	0.0072	0.00
Average Head on Top of Layer 7	0.0000	---	---

Percolation/Leakage through Layer 9	0.006631	1,684.9	0.12
Change in Water Storage	0.1490	37,864.3	2.80
Soil Water at Start of Year	1,039.9236	##########	19565.97
Soil Water at End of Year	1,040.0726	##########	19568.77
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

Average Annual Totals Summary

Title: MOHAVE VALLEY LANDFILL - S3
Simulated on: 12/11/2025 10:40

	Average Annual Totals for Years 1 - 30*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	6.05	[1.96]	1,537,902.8	100.00
Runoff	0.010	[0.052]	2,433.4	0.16
Evapotranspiration	6.031	[1.899]	1,532,410.3	99.64
Subprofile1				
Lateral drainage collected from Layer 6	0.0071	[0.0364]	1,800.2	0.12
Percolation/leakage through Layer 8	0.000000	[0]	0.0073	0.00
Average Head on Top of Layer 7	0.0000	[0]	---	---
Subprofile2				
Percolation/leakage through Layer 9	0.008987	[0.010788]	2,283.6	0.15
Water storage				
Change in water storage	-0.0040	[0.4229]	-1,024.7	-0.07

* Note: Average inches are converted to volume based on the user-specified area.

Peak Values Summary

Title: MOHAVE VALLEY LANDFILL - S3
Simulated on: 12/11/2025 10:41

	Peak Values for Years 1 - 30*		
	(inches)		(cubic feet)
Precipitation	1.39		352,466.0
Runoff	0.279		70,870.5
Subprofile1			
Drainage collected from Layer 6	0.0063		1,608.3
Percolation/leakage through Layer 8	0.000000		0.0018
Average head on Layer 7	0.0007		---
Maximum head on Layer 7	0.0015		---
Location of maximum head in Layer 6	0.00	(feet from drain)	
Subprofile2			
Percolation/leakage through Layer 9	0.001273		323.5
Other Parameters			
Snow water	1.7013		432,309.9
Maximum vegetation soil water	0.3321	(vol/vol)	
Minimum vegetation soil water	0.2415	(vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: MOHAVE VALLEY LANDFILL - S3
Simulated on: 12/11/2025 10:41
Simulation period: 30 years

	Final Water Storage	
Layer	(inches)	(vol/vol)
1	0.8307	0.1384
2	4.5076	0.2504
3	4.2152	0.3513
4	1,023.1679	0.2920
5	5.5680	0.2320
6	0.0030	0.0100
7	0.0000	0.0000
8	0.1875	0.7500
9	2.2965	0.1914
Snow water	0.0000	---

Appendix O-3

Leachate Pump Sizing

```
* * * * * * * * * * * *  K Y P I P E  * * * * * * * * * * * *
*                                                             *
*  Pipe Network Modeling Software                             *
*                                                             *
*  CopyRighted by KYPIPE LLC (www.kypipe.com)                 *
*  Version: 12.009b  03-25-2024                               *
*  Company:  SCSENGR       Serial #:  580091                  *
*  Interface:  KYnetic                                        *
*   Licensed for Pipe2024                                     *
*                                                             *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

Date & Time: Thu Oct 02 10:55:33 2025

Master File : c:\users\4747a_s\desktop\ali projects\mohave\pump sizing.KYP\pump sizing.P2K

S U M M A R Y O F O R I G I N A L D A T A

U N I T S S P E C I F I E D

FLOWRATE ..... = gallons/minute
HEAD (HGL) ..... = feet
PRESSURE ..... = psig

```
+-------------------------------------------------------------+
|  Pipe2000 Educational/Demo Version - Not for professional use  |
+-------------------------------------------------------------+
```

P I P E L I N E D A T A

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NAMES #1	NODE NAMES #2	LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF.	MINOR LOSS COEFF.
P-1	R-1	I-Pump-1	0.50	1.94	130.0000	0.00
P-2	O-Pump-1	J-1	1132.00	1.94	130.0000	6.40

P-3	J-1	R-3	2065.00	2.86	130.0000	2.37
P-4	R-2	I-Pump-2	0.50	1.94	130.0000	0.00
P-5	O-Pump-2	J-1	418.00	1.94	130.0000	6.20

P U M P/L O S S E L E M E N T D A T A

THERE IS A DEVICE AT NODE Pump-1 DESCRIBED BY THE FOLLOWING DATA: (ID= 1)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
223.00	0.00	75.00 (Default)
208.00	5.00	75.00 (Default)
191.00	10.00	75.00 (Default)
175.00	15.00	75.00 (Default)
154.00	20.00	75.00 (Default)
132.00	25.00	75.00 (Default)
104.00	30.00	75.00 (Default)

THERE IS A DEVICE AT NODE Pump-2
.....> (ID= 1)

N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)
J-1		0.00	1118.60	
I-Pump-1		0.00	1042.65	
I-Pump-2		0.00	1013.60	
R-1		----	1044.65	1042.65
R-2		----	1015.60	1013.60
R-3		----	1113.00	1111.00

| Pipe2000 Educational/Demo Version - Not for professional use |

O-Pump-1		0.00	1042.65
O-Pump-2		0.00	1013.60

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT
MAXIMUM AND MINIMUM PRESSURES = 4
MAXIMUM AND MINIMUM VELOCITIES = 5
MAXIMUM AND MINIMUM HEAD LOSS/1000 = 5

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES .....(P) = 5
NUMBER OF END NODES .....(J) = 3
NUMBER OF PRIMARY LOOPS .....(L) = 0
NUMBER OF SUPPLY NODES .....(F) = 3
NUMBER OF SUPPLY ZONES .....(Z) = 1

==========
Case: 0

RESULTS OBTAINED AFTER 4 TRIALS: ACCURACY = 0.56675E-04

S I M U L A T I O N D E S C R I P T I O N (L A B E L)

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	#2	FLOWRATE gpm	HEAD LOSS ft	MINOR LOSS ft	LINE VELO. ft/s	HL+ML/1000 ft/f	HL/1000 ft/f
P-1	R-1	I-Pump-1	27.29	0.01	0.00	2.96	22.99	22.99
P-2	O-Pump-1	J-1	27.29	26.03	0.87	2.96	23.76	22.99
P-3	J-1	R-3	52.52	24.11	0.25	2.62	11.80	11.67
P-4	R-2	I-Pump-2	25.23	0.01	0.00	2.74	19.88	19.88
P-5	O-Pump-2	J-1	25.23	8.31	0.72	2.74	21.61	19.88

+--+
| Pipe2000 Educational/Demo Version - Not for professional use |
+--+

P U M P/L O S S E L E M E N T R E S U L T S

NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail.	Case
	gpm	ft	ft	ft	%	Hp	$	$			ft	
Pump-1	27.29	-0.01	119.61	119.6	75.00	1.	0.0	0.0	**	**	33.1	0.0000
Pump-2	25.23	-0.01	130.79	130.8	75.00	1.	0.0	0.0	**	**	33.1	0.0000

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	NODE ELEVATION	PRESSURE HEAD	NODE PRESSURE
		gpm	ft	ft	ft	psi
J-1		0.00	1135.36	1118.60	16.76	7.26
I-Pump-1		0.00	1042.64	1042.65	-0.01	0.00
I-Pump-2		0.00	1013.59	1013.60	-0.01	0.00
R-1		----	1042.65	1044.65	-2.00	-0.87
R-2		----	1013.60	1015.60	-2.00	-0.87
R-3		----	1111.00	1113.00	-2.00	-0.87
O-Pump-1		0.00	1162.26	1042.65	119.61	51.83
O-Pump-2		0.00	1144.39	1013.60	130.79	56.68

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES psi	JUNCTION NUMBER	MINIMUM PRESSURES psi
O-Pump-2	56.68	R-1	-0.87
O-Pump-1	51.83	R-2	-0.87
J-1	7.26	R-3	-0.87
I-Pump-2	0.00	I-Pump-1	0.00

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-1	2.96	P-3	2.62
P-2	2.96	P-4	2.74
P-5	2.74	P-5	2.74

+--+
| Pipe2000 Educational/Demo Version - Not for professional use |
+--+

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-2	23.76	P-3	11.80
P-1	22.99	P-4	19.88
P-5	21.61	P-5	21.61

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-1	22.99	P-3	11.67
P-2	22.99	P-4	19.88
P-5	19.88	P-5	19.88

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE gpm	NODE TITLE
R-1	27.29	
R-2	25.23	
R-3	-52.52	

NET SYSTEM INFLOW = 52.52
NET SYSTEM OUTFLOW = -52.52
NET SYSTEM DEMAND = 0.00

==========

Total Power Cost

****

TOTAL POWER COST($) FOR THIS SIMULATION = 0.08

****

***** HYDRAULIC ANALYSIS COMPLETED *****

Appendix O-4

Transmissivity Calculations

SCS ENGINEERS

SHEET 1 OF 5

CLIENT	PROJECT	JOB NO.
Mohave Valley County	Mohave Valley Landfill	01216008.10

SUBJECT	BY	DATE
Leachate Collection & Removal System	AAS	12/9/2025
Bi-planar or Tri-planar Geocomposite	CHECKED	DATE
Transmissivity/Hydraulic Conductivity Calculations	MPB	12/15/2025

OBJECTIVE:

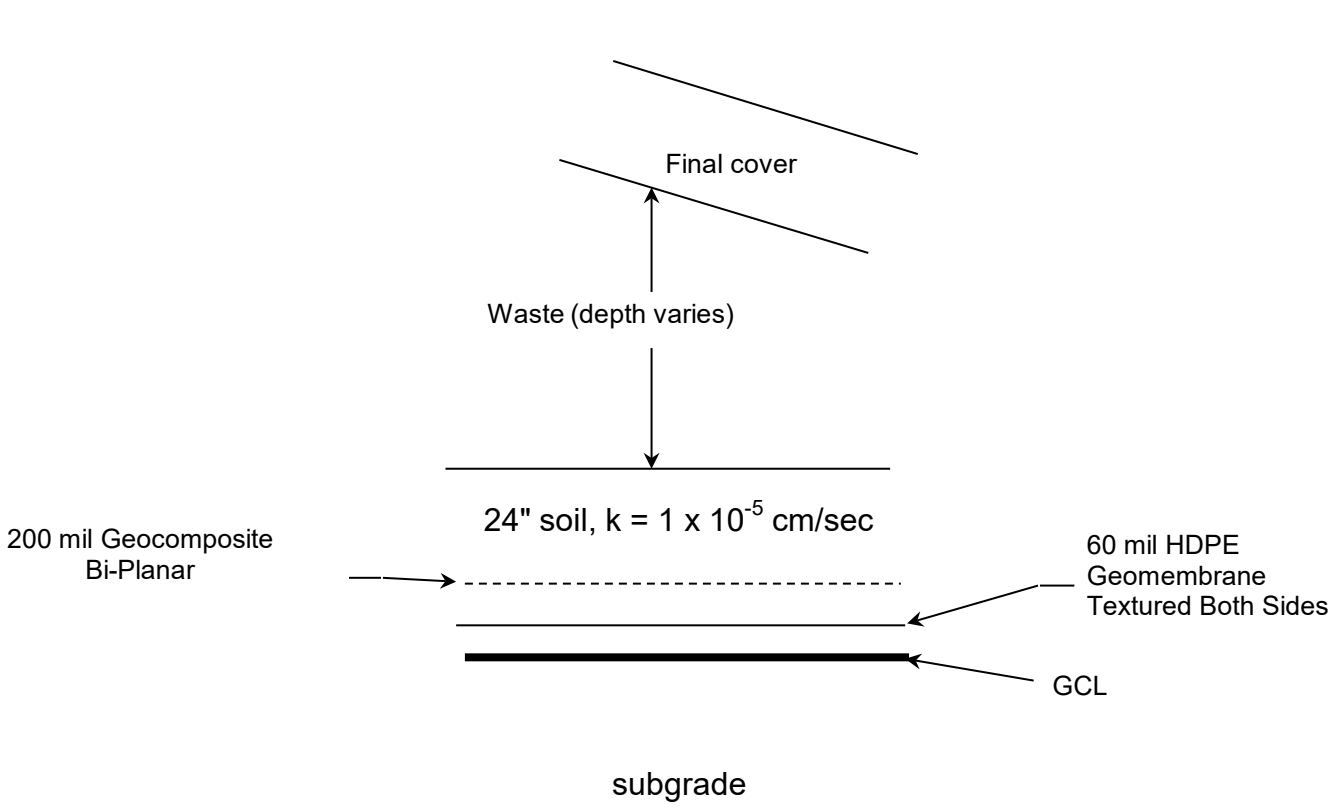
To determine the design hydraulic conductivity, design thickness, and porosity of the geocomposite selected for use in the leachate collection and detection system (where applicable) at various loads using manufacturer's testing data. The calculations for the long-term transmissivity 100 hour transmissivity values of the geocomposite are based on 100 hour transmissivity values.

REFERENCES:

1. Reference 1 - GRI Standard - GC8 Technical Rev. 1 January 9, 2013
2. Reference 2 - Correspondence from manufacturer for Bi-planar 100 hour transmissivity values and creep reduction factors.
3. Reference 3 - Soil properties
4. Reference 4 - Selection of Densities for use in Landfill Design Calculations
5. Reference 5 - Factor of Safety

PROCEDURE:

1. Geocomposite properties are dependent on landfill load, leachate and other conditions. Determine loads on geocomposite.
2. GRI Standard - GC8 is a way to determine geocomposite allowable flow rates based on site specific landfill conditions.
3. Calculate the downstream hydraulic conductivity (k) for various landfill conditions.
4. Determine the hydraulic conductivity for different loading conditions.
5. Use Table 4 - "Default Soil, Waste, and Geosynthetic Characteristics" for soil texture within the HELP model.
6. Use calculated values to run the HELP model.



CLIENT	PROJECT	JOB NO.
Mohave Valley County	Mohave Valley Landfill	01216008.10

SUBJECT	BY	DATE
Leachate Collection & Removal System	AAS	12/9/2025
Bi-planar or Tri-planar Geocomposite	CHECKED	DATE
Transmissivity/Hydraulic Conductivity Calculations	MPB	12/15/2025

EQUATIONS:

Refer to Reference 1 developed from Equation (1) and Equation (2) pg GC8-3

$$\theta_{allow} = \frac{\theta_{ultimate}}{RF_{IN} * RF_{CC} * RF_{BC} * RF_{CR} * FS}$$

Where:

θ_{allow} = Allowable transmissivity

$\theta_{ultimate}$ = Ultimate transmissivity (manufacturer's) under simulated conditions for 100 hours

RF_{IN} = Reduction Factor for elastic deformation, or intrusion of the adjacent geotextiles into the drainage channel

RF_{CC} = Reduction Factor for Chemical Clogging and/or precipitation of chemicals in the drainage core space

RF_{BC} = Reduction Factor for Biological Clogging in the drainage core space

RF_{CR} = Reduction Factor for Creep deformation of the drainage core and/or adjacent geotextile into the drainage channel

FS = Factor of Safety

$$RF_{CR} = \left[\frac{(t'/t) - (1 - n_{original})}{(t_{CR}/t) - (1 - n_{original})}\right]^3$$

Refer to Reference 1 Equation (6) pg GC8-7

Where:

t' = Thickness at 100 hours

t = Virgin thickness

t_{CR} = Thickness at > 100 hours

$n_{original}$ = Original porosity

$$= 1 - \left[\frac{\mu}{\rho \times t}\right]$$

Refer to Reference 1 Equation (7) pg GC8-7

μ = mass unit area

ρ = density

$$k = \frac{\theta_{allow}}{t'}$$

Refer to Reference 1 Equations (3 and 4) pg GC8-5

Where:

k = Hydraulic conductivity, cm/sec

t' = Thickness at 100 hours

NOTE:

RF_{IN} accounts for the geotextile encroaching on the geonet under a constant loading. A 100-hour transmissivity test accounts for intrusion. After the 100-hour seat time, the geotextile has already begun to intrude into the geonet, therefore, the transmissivity value reflects the intrusion. The transmissivity values for these calculations are all based on the 100-hour test, therefore, RF_{IN} = 1.0.

SCS ENGINEERS

SHEET 3 OF 5

CLIENT	PROJECT	JOB NO.
Mohave Valley County	0 Mohave Valley Landfill	01216008.10

SUBJECT	BY	DATE
Leachate Collection & Removal System	AAS	12/9/2025
Bi-planar or Tri-planar Geocomposite	CHECKED	DATE
Transmissivity/Hydraulic Conductivity Calculations	MPB	12/15/2025

OBJECTIVE: To determine the load on the bottom liner geocomposite under different scenarios.

KNOWN: Landfill cross-section

Bottom liner low point elevation =	1013.6	ft NGVD		
Elevation over low point =	1223.4	ft NGVD	Based on proposed final grade	
Max depth =	209.8	ft	With Final Cover	
Final cover =	115.0	pcf	Refer to Reference 3	?
Intermediate/daily cover =	115.0	pcf	Refer to Reference 3	?
Waste/cover =	60.7	pcf	Refer to Reference 4	
Operational soil layer =	115.0	pcf	Refer to Reference 3	?

Scenario 1 - Open cell - 10 -ft waste + 6-inch daily cover

Material	Material Density (pcf)	Depth of Material (ft)	Load (psf)		
Daily Cover	115.0	0.5	57.5		
Waste/cover	60.7	288.0	17,481.6		
Drainage sand	115.0	2.0	230.0		
Total		**290.5**	**17,769.1**	**=>**	**1,000**

Scenario 2 - Intermediate condition - 288 -feet of waste + 12-inch intermediate cover

Material	Material Density (pcf)	Depth of Material (ft)	Load (psf)		
Daily Cover	115.0	1.0	115.0		
Waste/cover	60.7	288.0	17,481.6		
Drainage sand	115.0	2.0	230.0		
Total		**291.0**	**17,826.6**	**=>**	**2,720**

Scenario 3 - Closed condition - 288 -feet of waste + 12-inch intermediate cover + 24-inch final cover

Material	Material Density (pcf)	Depth of Material (ft)	Load (psf)		
Final Cover	115.0	2.0	230.0		
Intermediate Cover	115.0	1.0	115.0		
Waste/cover	60.7	288.0	17,481.6		
Drainage sand	115.0	2.0	230.0		
Total		**293.0**	**18,056.6**	**=>**	**2,950**

CLIENT	PROJECT 0	JOB NO.
Mohave Valley County	Mohave Valley Landfill	01216008.10

SUBJECT	BY	DATE
Leachate Collection & Removal System	AAS	12/9/2025
Bi-planar or Tri-planar Geocomposite	CHECKED	DATE
Transmissivity/Hydraulic Conductivity Calculations	MPB	12/15/2025

BI-PLANAR (LEACHATE COLLECTION & DETECTION SYSTEM)

PURPOSE:

Calculate the design transmissivity, k, of a 300-mil bi-planar geocomposite under boundary conditions for various site specific loading conditions.

From the GSE technical department, the following Transmissivity (θ) and Creep values are known:

Sand/GC/GM Manufacturer's 100 hour θ_{100} Data Transmissivity		
@ 2% Gradient		
Load (psf)	$\theta_{ultimate}$ (m^2/sec)	Refer to Reference 3
1,000	5.00E-03	
2,720	4.61E-03	(interpolated value)
2,950	4.56E-03	(interpolated value)
5,000	4.10E-03	
10,000	3.30E-03	
15,000	2.85E-03	
20,000	3.40E-04	

Manufacturer Creep Data		
Load (psf)	RF_{CR}	Refer to Reference 7
1,000	1.01	
2,720	1.03	(interpolated value)
2,950	1.04	(interpolated value)
15,000	1.20	
20,000	1.27	(interpolated value)

Reduction Factors

RF - Intrusion, RF_{IN}
RF - Chemical Clogging, RF_{CC}
RF - Biological Clogging, RF_{BC}
RF - Creep, RF_{CR}
FS - Factor of Safety

thickness, t = 300 mil
0.30 inches
0.762 cm

Equations

$$\theta_{allow} = \frac{\theta_{ultimate}}{RF_{CC} * RF_{BC} * RF_{CR} * FS}$$

$$t' = \frac{t}{RF_{CR}}$$

$$k = \frac{\theta_{allow}}{t'}$$

Leachate Collection System

Chemical Clogging RF_{CC} =	1.5	to	2.0	Refer to Reference 1 pg GC8-9
Biological Clogging RF_{BC} =	1.1	to	1.3	Refer to Reference 1 pg GC8-9

SCS ENGINEERS

SHEET 5 OF 5

CLIENT	PROJECT	JOB NO.
Mohave Valley County	0 Mohave Valley Landfill	01216008.10

SUBJECT	BY	DATE
Leachate Collection & Removal System	AAS	12/9/2025
Bi-planar or Tri-planar Geocomposite	CHECKED	DATE
Transmissivity/Hydraulic Conductivity Calculations	MPB	12/15/2025

BI-PLANAR (LEACHATE COLLECTION SYSTEM)

Scenario 1 - Open cell - 10 -ft waste + 6-inch daily cover

Reduction Factors

RF_{IN} =	1.00		thickness, **t** =	300 mil
RF_{CC} =	1.50	Refer to Reference 1 pg GC8-9		0.30 inches
RF_{BC} =	1.10	Refer to Reference 1 pg GC8-9		0.762 cm
RF_{CR} =	1.01	Refer to Reference 2		
FS =	2.00	Refer to Reference 5 pg 299		

@ 2.0% Gradient

Load (psf)	$\theta_{Ultimate}$ (m^2/sec)	*θ_{allow} (m^2/sec)	θ_{allow} (cm^2/sec)	*t' (cm)	*k (cm/sec)	
1,000	5.00E-03	1.50E-03	15.0	0.75446	19.88	Scenario 1

* Refer to equations in page 4

t' = 0.297 inches

Scenario 2 - Intermediate condition - 288 -feet of waste + 12-inch intermediate cover

Reduction Factors

RF_{IN} =	1.00		thickness, **t** =	300 mil
RF_{CC} =	2.00	Refer to Reference 1 pg GC8-9		0.30 inches
RF_{BC} =	1.30	Refer to Reference 1 pg GC8-9		0.762 cm
RF_{CR} =	1.03	Refer to Reference 2		
FS =	2.00	Refer to Reference 5 pg 299		

@ 2.0% Gradient

Load (psf)	$\theta_{Ultimate}$ (m^2/sec)	*θ_{allow} (m^2/sec)	θ_{allow} (cm^2/sec)	*t' (cm)	*k (cm/sec)	
2,720	4.61E-03	8.58E-04	8.6	0.737	11.64	Scenario 2

* Refer to equations in page 4

t' = 0.290 inches **Need this to be higher than the Maximum He**

Scenario 3 - Closed condition - 288 -feet of waste + 12-inch intermediate cover + 24-inch final cover

Reduction Factors

RF_{IN} =	1.00		thickness, **t** =	300 mil
RF_{CC} =	2.00	Refer to Reference 1 pg GC8-9		0.30 inches
RF_{BC} =	1.30	Refer to Reference 1 pg GC8-9		0.762 cm
RF_{CR} =	1.04	Refer to Reference 2		
FS =	2.00	Refer to Reference 5 pg 299		

@ 2.0% Gradient

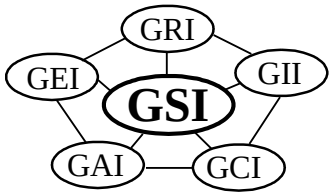
Load (psf)	$\theta_{Ultimate}$ (m^2/sec)	*θ_{allow} (m^2/sec)	θ_{allow} (cm^2/sec)	*t' (cm)	*k (cm/sec)	
2,950	4.56E-03	8.46E-04	8.5	0.735	11.51	Scenario 3

* Refer to equations in page 4

t' = 0.289 inches **Need this to be higher than the Maximum He**

References

Geosynthetic Institute
475 Kedron Avenue
Folsom, PA 19033-1208 USA
TEL (610) 522-8440
FAX (610) 522-8441



Original: April 17, 2001
Rev. 1: January 9, 2013-Editorial

GRI Standard GC8*

Standard Guide for

Determination of the Allowable Flow Rate of a Drainage Geocomposite

This specification was developed by the Geosynthetic Research Institute (GRI), with the cooperation of the member organizations for general use by the public. It is completely optional in this regard and can be superseded by other existing or new specifications on the subject matter in whole or in part. Neither GRI, the Geosynthetic Institute, nor any of its related institutes, warrant or indemnifies any materials produced according to this specification either at this time or in the future.

1. Scope

1.1 This guide presents a methodology for determining the allowable flow rate of a candidate drainage geocomposite. The resulting value can be used directly in a hydraulics-related design to arrive at a site-specific factor of safety.

1.2 The procedure is to first determine the candidate drainage composite's flow rate for 100-hours under site-specific conditions, and then modify this value by means of creep reduction and clogging reduction factors.

1.3 For aggressive liquids, a "go-no go" chemical resistance procedure is suggested. This is a product-specific verification test for both drainage core and geotextile covering.

1.4 The type of drainage geocomposites under consideration necessarily consists of a drainage core whose purpose it is to convey liquid within its manufactured plane. The drainage core can be a geonet, 3-D mesh, built-up columns, single or double cuspations, etc.

1.5 The drainage core usually consists of a geotextile on its upper and/or lower surface. In some cases, the drainage core is used by itself. The guide addresses all of these variations.

1.6 The guide is also applicable to thick nonwoven geotextiles when they are utilized for their drainage capability.

*This GRI standard is developed by the Geosynthetic Research Institute through consultation and review by the member organizations. This specification will be reviewed at least every 2-years, or on an as-required basis. In this regard it is subject to change at any time. The most recent revision date is the effective version.

Copyright © 2001, 2013 Geosynthetic Institute
All rights reserved

1.7 All types of polymers are under consideration in this guide.

1.8 The guide does not address the required (or design) flow rate to which a comparison is made for the final factor of safety value. This is clearly a site-specific issue.

2. Referenced Documents

2.1 ASTM Standards

D1987 – "Test Method for Biological Clogging of Geotextile or Soil/Geotextile Filters"

D2240 – "The Method for Rubber Property – Durometer Hardness"

D4716 – "Test Method for Constant Head Hydraulic Transmissivity (In Plane Flow) of Geotextiles and Geotextile Related Products"

D5322 – "Standard Practice for Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids"

D6364 – "Test Method for Determining the Short-Term Compression Behavior of Geosynthetics"

D6388 – "Standard Practice for Tests to Evaluate the Chemical Resistance of Geonets to Liquids"

D6389 – "Standard Practice for Tests to Evaluate the Chemical Resistance of Geotextiles to Liquids"

2.2 GRI Standards

GS4 – Test Method for Time Dependent (Creep) Deformation Under Normal Pressure

2.3 Literature

Giroud, J.-P., Zhao, A. and Richardson, G. N. (2000), "Effect of Thickness Reduction on Geosynthetic Hydraulic Transmissivity," Geosynthetics International, Vol. 7, Nos. 4-6, pp. 433-452.

Koerner, R. M. (2012), Designing with Geosynthetics, 6th Edition, Xlibris Publishing Co., 914 pgs.

3. Summary of Guide

3.1 This guide presents the necessary procedure to be used in obtaining an allowable flow rate of a candidate drainage geocomposite. The resulting value is then compared to a required (or design) flow rate for a product-specific and site-specific factor of safety. The guide does not address the required (or design) flow rate value, nor the subsequent factor of safety value.

3.2 The procedures recommended in this guide use either ASTM or GRI test methods.

3.3 The guide is applicable to all types of drainage geocomposites regardless of their core configuration or geotextile type. It can also be used to evaluate thick nonwoven geotextiles.

4. Significance and Use

4.1 The guide is meant to establish uniform test methods and procedures in order for a designer to determine the allowable flow rate of a candidate drainage geocomposite for site-specific conditions.

4.2 The guide requires communication between the designer, testing organization and manufacturer in setting site-specific control variables such as product orientation, stress level, stress duration, type of permeating liquid and materials below/above the geocomposite test specimen.

4.3 The guide is useful to testing laboratories in that a prescribed guide is at hand to provide appropriate data for both designer and manufacturer clients.

5. Structure of the Guide

5.1 Basic Formulation – This guide is focused on determination of a "q_{allow}" value using the following formula:

$$q_{allow} = q_{100}\left[\frac{1}{RF_{CR} \times RF_{CC} \times RF_{BC}}\right] \quad (1)$$

where

q_{allow} = allowable flow rate
q_{100} = initial flow rate determined under simulated conditions for 100-hour duration
RF_{CR} = reduction factor for creep to account for long-term behavior
RF_{CC} = reduction factor for chemical clogging
RF_{BC} = reduction factor for biological clogging

Note 1: By simulating site-specific conditions (except for load duration beyond 100 hours and chemical/biological clogging), additional reduction factors such as intrusion need not be explicitly accounted for.

Note 2: The value of q_{allow} is typically used to determine the product-specific and site-specific flow rate factor of safety as follows:

$$FS = \frac{q_{allow}}{q_{reqd}} \quad (2)$$

The value of "q_{reqd}" is a design issue and is not addressed in this guide. Likewise, the numeric value of the factor-of-safety is not addressed in this guide. Suffice it to say that, depending on the duration and criticality of the situation, FS-values should be conservative unless experience allows otherwise.

5.2 Upon selecting the candidate drainage geocomposite product, one must obtain the 100-hour duration flow rate according to the ASTM D4716 transmissivity test. This

establishes the base value to which drainage core creep beyond 100-hours and clogging from chemicals and biological matter must be accounted for.

> Note 3: It is recognized that the default duration listed in ASTM D4716 is 15-minutes. This guide purposely requires that the test conditions be maintained for 100-hours.

5.3 Reduction Factor for Creep – This is a long-term (typically 10,000 hours) compressive load test focused on the stability and/or deformation of the drainage core without the covering geotextiles. Stress orientation can be perpendicular or at an angle to the test specimen depending upon site-specific conditions.

5.4 Chemical and/or Biological Clogging – The issue of long term reduction factors to account for clogging within the core space is a site-specific issue. The issue is essentially impractical to simulate in the laboratory, hence a table is provided for consideration by the designer.

5.5 Chemical Resistance/Durability – This procedure results in a "go-no go" decision as to potential chemical reactions between the permeating liquid and the polymers comprising the drainage core and geotextiles. The issue will be addressed in this guide but is not a reduction factor, per se.

6. Determination of the Base Line Flow Rate (q_{100})

6.1 Using the ASTM D4716 transmissivity test with the conditions stated below (unless otherwise agreed upon by the parties involved), determine the 100-hour flow rate of the drainage geocomposite under consideration.

6.1.1 The test specimen shall be the entire geocomposite. If geotextiles are bonded to the drainage core, they shall not be removed and the entire geocomposite shall be tested as a unit. A minimum of three replicate samples in the site-specific orientation shall be tested and the results averaged for the reported value.

6.1.2 Specimen size shall be 300 × 300 mm (12 × 12 in.) within the stressed area.

6.1.3 The specimen orientation is to be agreed upon by the designer, testing laboratory and manufacturer. In this regard, it should be recognized that the specimen orientation during testing has to match the proposed installation orientation. Thus the site-specific design governs both the testing orientation and subsequent field installation orientation.

6.1.4 Specimen substratum shall be one of the following four options. The decision of which is made by the project designer, testing organization and manufacturer. The options are (i) rigid platen, (ii) foam, (iii) sand or (iv) site-specific soil or other material.

6.1.4.1 If a rigid platen is used the choices are usually wood, plastic or metal. The testing laboratory must identify the specifics of the material used.

6.1.4.2 If closed cell foam is used, it shall be 12 mm (0.5 in.) thick and a maximum durometer of 2.0 as measured in ASTM D2240, Type D.

6.1.4.3 If sand is used it shall be Ottawa test sand at a relative density of 85%, water content of 10% and compacted thickness of 25 mm (1.0 in.).

6.1.4.4 If site-specific soil or other material is used it must be carefully considered and agreed upon between the parties involved. Size, gradation, moisture content, density, etc., are all important considerations.

6.1.5 Specimen superstratum shall also be one of the four same options as mentioned in § 6.1.3 above. It need not be the same as the substratum.

6.1.6 The applied stress level is at the discretion of the designer, testing organization and manufacturer. Unless stated otherwise, the orientation shall be normal to the test specimen.

6.1.7 The duration of the loading shall be for 100 hours. A single site-specific data point is obtained at that time, i.e., it is not necessary to perform intermediate flow rate testing, unless otherwise specified by the various parties involved.

6.1.8 The hydraulic gradient at which the above data point is taken (or a range of hydraulic gradients) is at the discretion of the designer, testing organization and manufacturer.

6.1.9 The permeating liquid is to be tap water, unless agreed upon otherwise by the designer, testing organization, and manufacturer.

6.1.10 Calculations

$$Q = kiA \tag{3}$$

$$Q = ki(Wt)$$

$$Q/W = \theta i \tag{4}$$

$$q = \theta i \tag{5}$$

where

Q = flow rate per unit time (m^3/sec)
k = permeability (m/sec)
i = hydraulic gradient (= H/L)
H = head loss across specimen (m)
L = length of specimen (m)
A = cross sectional area of specimen (m^2)
W = width of specimen (m)
t = thickness of specimen (m)
θ = transmissivity (m^3/sec-m or m^2/sec)
q = flow rate per unit width (m^2/sec)

The results can be presented as flow rate per unit width (Q/W), or as transmissivity (θ), as agreed upon by the parties involved.

7. Reduction Factor for Creep

7.1 Using the GRI GS4 test method or ASTM D6364 (mod.) for time dependent (creep) deformation, the candidate drainage core is placed under compressive stress and its decrease in thickness (deformation) is monitored over time.

> Note 4: This is not a flow rate test, although the test specimen can be immersed in a liquid to be agreed upon by the designer, testing organization, and manufacturer. However, it is usually a test conducted without liquid.

7.1.1 The test specimen shall be the drainage core only. If geotextiles are bonded to the drainage core they should be carefully removed. Alternatively, a sample of the drainage core can be obtained from the manufacturer before the geotextiles are attached. A minimum of three replicate tests shall be performed and the results averaged for the reported value.

7.1.2 Specimen size should be 150 × 150 mm (6.0 × 6.0 in.) and placed in a rigid box made from a steel base and sides. The steel load plate above the test specimen shall be used to transmit a constant stress over time. Deformation of the upper plate is measured by at least two dial gauges and the results averaged accordingly.

> Note 5: For high stress conditions requiring a large size and number of weights with respect to laboratory testing and safety, the specimen size can be reduced to 100 × 100 mm (4.0 × 4.0 in.).

7.1.3 Specimen substratum and superstratum shall be rigid platens. Alternatively, a 1.5 mm (60 mil) thick HDPE geomembrane can be placed against the drainage core with the steel plates as back-ups.

7.1.4 The test specimen shall be dry unless water or a simulated or site-specific leachate is agreed upon by the parties involved.

7.1.5 The normal stress magnitude(s) shall be the same as applied in the transmissivity test described in Section 6.0. Alternatively, it can be as agreed upon by the designer, testing organization, and manufacturer.

7.1.6 The load inclination shall be normal to the test specimen. If there exists a tendency for the core structure to deform laterally, separate tests at the agreed upon load inclinations shall also be performed at the discretion of the parties involved.

7.1.7 The dwell time shall be 10,000 hours. If, however, this is a confirmation test (or if a substantial data base exists on similar products of the same type), the dwell time can be reduced to 1000 hours. This decision must be made with agreement between the designer, testing organization, and manufacturer.

> Note 6: Alternative procedures to arrive at an acceptable value for the creep reduction factor based on shorter test times (e.g., the use of time-temperature superposition or stepped isothermal method) may be acceptable if agreed upon by the various parties involved.

7.1.8 The above process results in a set of creep curves similar to Figure 1(a). The curves are to be interpreted as shown in Figure 1(b). The reduction factor for creep of the core is interpreted according to the following formulas, after Giroud, Zhao and Richardson (2000).

$$RF_{CR} = \left[\frac{\left(t_{CO} / t_{original}\right) - \left(1 - n_{original}\right)}{\left(t_{CR} / t_{original}\right) - \left(1 - n_{original}\right)} \right]^3 \qquad (6)$$

where

RF_{CR} = reduction factor for creep
$t_{original}$ = original thickness (m)
t_{CO} = thickness at 100-hours (m)
t_{CR} = thickness at >>100-hours, e.g., at 10,000 hours (m)
$n_{original}$ = original porosity (see Equation 7)

$$n_{original} = 1 - \frac{\mu}{\rho t_{original}} \qquad (7)$$

where

μ = mass per unit area (kg/m^2)
ρ = density of the formulation (kg/m^3)

7.1.9 The above illustrated numeric procedure is <u>not applicable</u> to drainage geocomposites which include geotextiles. It is for the drainage core only.

<u>Example</u>: A HDPE geonet has the following properties: mass per unit area μ = 1216 g/m^2 (or 1.216 kg/m^2); density ρ = 950 kg/m^2 and original thickness of 8.55 mm.

Test specimens were evaluated according to ASTM D4716 for 100 hours and the average thickness decreased to 7.14 mm. A 10,000 hour creep test was then performed on a representative specimen according to GRI-GS4 and the resulting thickness further decreased to 6.30 mm. Thus Δy in Figure 1(b) is 7.14 – 6.30 = 0.84 mm. Determine the creep reduction factor "RF_{CR}".

<u>Solution</u>: The porosity n, is calculated according to Eq. (7) as follows

$$n_{original} = 1 - \frac{\mu}{\rho t_{original}}$$

$$= 1 - \frac{1.216}{(950)(0.00855)}$$

$$= 1 - 0.150$$

$$n_{original} = 0.850$$

The reduction factor for creep is calculated according to Eq. (6) as follows:

$$RF_{CR} = \left[\frac{\left(t_{CO} / t_{original}\right) - \left(1 - n_{original}\right)}{\left(t_{CR} / t_{original}\right) - \left(1 - n_{original}\right)} \right]^3$$

$$= \left[\frac{(7.14 / 8.55) - (1 - 0.850)}{(6.30 / 8.55) - (1 - 0.850)} \right]^3$$

$$= \left[\frac{0.835 - 0.150}{0.737 - 0.150} \right]^3$$

$$= \left[\frac{0.685}{0.587} \right]^3$$

$$RF_{CR} = 1.59$$

Note 7: Other calculation methods to arrive at the above numeric value of creep reduction factor may be considered if agreed upon by the various parties involved.

8. Reduction Factors for Core Clogging

There are two general types of core clogging that might occur over a long time period. They are chemical clogging and biological clogging. Both are site-specific and both are essentially impractical to simulate in the laboratory.

8.1 Chemical clogging within the drainage core space can occur with precipitates deposited from high alkalinity soils, typically calcium and magnesium. Other precipitates can also be envisioned such as fines from turbid liquids although this is less likely since the turbid liquid must typically pass through a geotextile filter. It is obviously a site-specific situation.

8.2 Biological clogging within the drainage core space can occur by the growth of biological organisms or by roots growing through the overlying soil and extending downward, through the geotextile filter, and into the drainage core. It is a site-specific situation and depends on the local, or anticipated, vegetation, cover soil, hydrology, etc.

8.3 Default tables for the above two potential clogging mechanisms (chemical and biological) are very subjective and by necessity broad in their upper and lower limits. The following table is offered as a guide.

Range of Clogging Reduction Factors (modified from Koerner, 1998)

Application	Chemical Clogging (RF_{CC})	Biological Clogging (RF_{BC})
Sport fields	1.0 to 1.2	1.1 to 1.3
Capillary breaks	1.0 to 1.2	1.1 to 1.3
Roof and plaza decks	1.0 to 1.2	1.1 to 1.3
Retaining walls, seeping rock and soil slopes	1.1 to 1.5	1.0 to 1.2
Drainage blankets	1.0 to 1.2	1.0 to 1.2
Landfill caps	1.0 to 1.2	1.2 to 3.5
Landfill leak detection	1.1 to 1.5	1.1 to 1.3
Landfill leachate collection	1.5 to 2.0	1.1 to 1.3

9. Polymer Degradation

9.1 Degradation of the materials from which the drainage geocomposite are made, with respect to the site-specific liquid being transmitted, is a polymer issue. Most geocomposite drainage cores are made from polyethylene, polypropylene, polyamide or polystyrene. Most geotextile filter/separators covering the drainage cores are made from polypropylene, polyester or polyethylene.

> Note 8: It is completely inappropriate to strip the factory bonded geotextile off of the drainage core and then test one or the other component. The properties of both the geotextile and drainage core will be altered in the lamination process from their original values.

9.2 If polymer degradation testing is recommended, the drainage core and the geotextile should be tested separately in their as-received condition before lamination and bonding.

9.3 The incubation of the drainage cores and/or geotextile coupons is to be done according to the ASTM D5322 immersion procedure.

9.4 The testing of the incubated drainage cores is to be done according to ASTM D6388 which stipulates various test methods for evaluation of incubated geonets.

> Note 9: For drainage cores other than geonets, e.g., columnar, cuspated, meshes, etc., it may be necessary to conduct additional tests than appear in ASTM D6388. These tests, and their procedures, should be discussed and agreed upon by the project designer, testing organization, and manufacturer.

9.5 The testing of the incubated geotextiles is to be done according to ASTM D6389 which stipulates various test methods for evaluation of incubated geotextiles.

Note 10: The information obtained in testing the drainage core (Section 9.4) and the geotextile (Section 9.5) result in a "go-no go" situation and not in a reduction factor, per se. If an adverse chemical reaction is indicated, one must select a different type of geocomposite material (drainage core and/or geotextile).

10. Summary

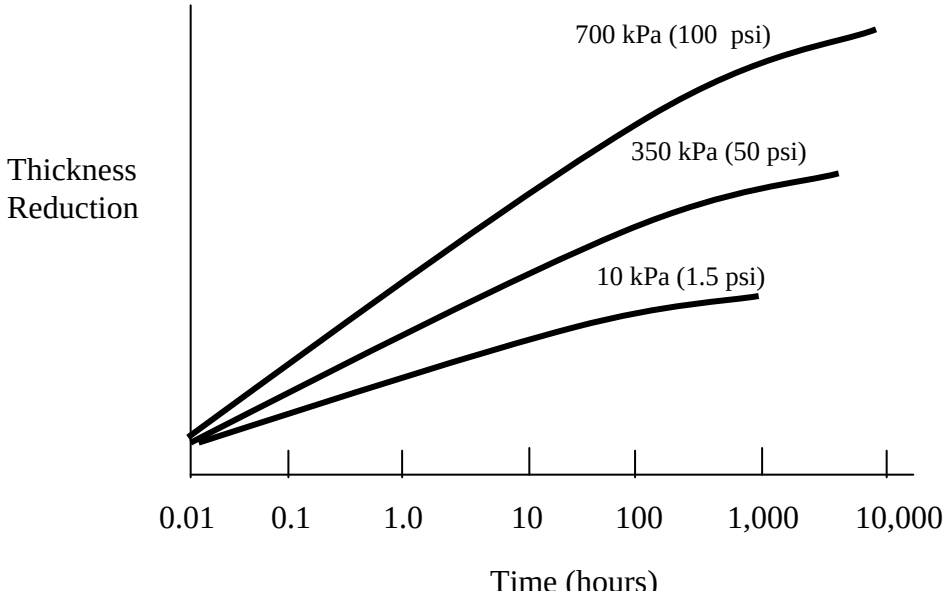
10.1 For a candidate drainage geocomposite, the 100-hour flow rate behavior under the site-specific set of variables, e.g., specimen orientation, stress level, hydraulic gradient, and permeating liquid is to be obtained per ASTM D4716 following procedures of Section 6.0.

10.2 A reduction factor for long term creep of the drainage core following Section 7.0 per GRI GS4 or ASTM D6364 (mod.) is then obtained. The result is usually a unique value for a given set of conditions.

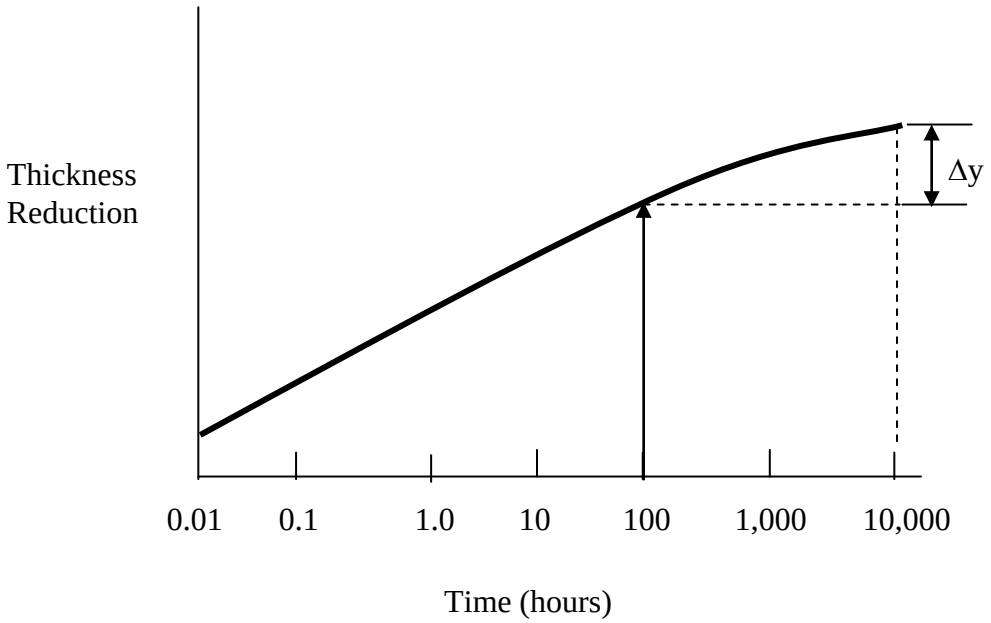
10.3 A reduction factor for chemical and/or biological clogging, as discussed in Section 8.0 can be included. It is very much a site-specific situation at the discretion of the parties involved.

10.4 Polymer degradation to aggressive liquids is covered in separate immersion and test protocols, e.g., ASTM D5322 (immersion), ASTM D6388 (geonets) and ASTM D6389 (geotextiles) as discussed in Section 9.0. The procedure does not result in a reduction factor, rather in a "go-no go" decision with the product under consideration.

10.5 Other possible flow rate reductions and/or concerns such as flow in overlap regions, effect of high or low temperatures, etc., are site-specific and cannot readily be generalized in a guide such as this.



(a) Hypothetical data from creep testing illustrating effect of normal load magnitude



(b) Interpretation of project specific normal load curve to obtain creep reduction factor

Figure 1 – Hypothetical example of creep test data and data interpretation to obtain creep reduction factor

PRODUCT DATA SHEET

GSE FabriNet 300 mil Geocomposite

GSE FabriNet 300 mil geocomposite consists of a 300 mil thick GSE HyperNet geonet heat-laminated on one or both sides with a GSE nonwoven needlepunched geotextile. The geotextile is available in mass per unit area range of 6 oz/yd² to 16 oz/yd². The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.

AT THE CORE:

A 300 mil thick GSE HyperNet geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value[1]		
Geocomposite			6 oz/yd²	8 oz/yd²	10 oz/yd²
Transmissivity[2], gal/min/ft (m²/sec) Double-Sided Composite Single-Sided Composite	ASTM D 4716	1/540,000 ft²	 4.3 (9 x 10^{-4}) 14.5 (3 x 10^{-3})	 4.3 (9 x 10^{-4}) 14.5 (3 x 10^{-3})	 3.4 (7 x 10^{-4}) 9.6 (2 x 10^{-3})
Ply Adhesion, lb/in	ASTM D 7005	1/50,000 ft²	1.0	1.0	1.0
Geonet Core [1,3] – GSE HyperNet					
Geonet Core Thickness, mil	ASTM D 5199	1/50,000 ft²	300	300	300
Transmissivity[2], gal/min/ft (m²/sec)	ASTM D 4716		38.6 (8 x 10^{-3})	38.6 (8 x 10^{-3})	38.6 (8 x 10^{-3})
Density, g/cm³	ASTM D 1505	1/50,000 ft²	0.94	0.94	0.94
Tensile Strength (MD), lb/in	ASTM D 7179	1/50,000 ft²	75	75	75
Carbon Black Content, %	ASTM D 4218	1/50,000 ft²	2.0	2.0	2.0
Geotextile[1,3]					
Mass per Unit Area, oz/yd²	ASTM D 5261	1/90,000 ft²	6	8	10
Grab Tensile Strength, lb	ASTM D 4632	1/90,000 ft²	160	220	260
Grab Elongation	ASTM D 4632	1/90,000 ft²	50%	50%	50%
CBR Puncture Strength, lb	ASTM D 6241	1/540,000 ft²	435	575	725
Trapezoidal Tear Strength, lb	ASTM D 4533	1/90,000 ft²	65	90	100
AOS, US sieve[1] (mm)	ASTM D 4751	1/540,000 ft²	70 (0.212)	80 (0.180)	100 (0.150)
Permittivity, sec^{-1}	ASTM D 4491	1/540,000 ft²	1.5	1.3	1.0
Water Flow Rate, gpm/ft²	ASTM D 4491	1/540,000 ft²	110	95	75
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70	70	70
NOMINAL ROLL DIMENSIONS[4]					
Roll Width, ft			15	15	15
Roll Length, ft	Double-Sided Composite Single-Sided Composite		180 220	170 220	160 200
Roll Area, ft²	Double-Sided Composite Single-Sided Composite		2,700 3,300	2,550 3,300	2,400 3,000

NOTES:

- [1]All geotextile properties are minimum average roll values except AOS which is maximum average roll value and UV resistance is typical value. Geonet core thickness is nominal value.
- [2]Gradient of 0.1, normal load of 10,000 psf, water at 70˚F between steel plates for 15 minutes. Contact GSE for performance transmissivity value for use in design.
- [3]Component properties prior to lamination.
- [4]Roll widths and lengths have a tolerance of ±1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

GSE ENVIRONMENTAL™

DURABILITY RUNS DEEP

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.

This Information is provided for reference purposes only and is not intended as a warranty or guarantee. GSE assumes no liability in connection with the use of this Information. Specifications subject to change without notice. GSE and other trademarks in this document are registered trademarks of GSE Environmental, LLC in the United States and certain foreign countries. REV 04JUN2014

Ortega, Alex

From: Connie Wong, <cowong@solmax.com>
Sent: Tuesday, October 16, 2018 12:26 PM
To: Vincent Diviacchi; Ortega, Alex
Cc: Patty Beaubien
Subject: RE: Transmissivity Information

Thank you Vincent. We don't recommend FabriNet 250 for high loading application.
For such loading, 20,000psf, we typically recommend thicker geocomposite, at least 300mil FabriNet, or other geonet structure that can handle the compressive load, product such as PermaNet, TenDrain or DuraFlow.

CONNIE WONG,
Support Engineer-Drainage & Geogrid Products
+1 281 230 5830
+1 832 495 5005
cowong@solmax.com

SOLMAX GSE

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Vincent Diviacchi
Sent: Tuesday, October 16, 2018 11:10 AM
To: Ortega, Alex <AOrtega@scsengineers.com>; Connie Wong, <cowong@solmax.com>
Cc: Patty Beaubien <pbeaubien@solmax.com>
Subject: RE: Transmissivity Information

Connie,
Would we recommend 250mil composite under such a load?
Thanks, Vince

VINCENT DIVIACCHI
Value Engineering Manager - North America
+1 832 657 4857
vdiviacchi@solmax.com

SOLMAX GSE

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Ortega, Alex <AOrtega@scsengineers.com>
Sent: Tuesday, October 16, 2018 11:01 AM
To: Connie Wong, <cowong@solmax.com>
Cc: Patty Beaubien <pbeaubien@solmax.com>; Vincent Diviacchi <vdiviacchi@solmax.com>
Subject: RE: Transmissivity Information

Hi Connie,

Can you give the information for the 250 mil composite estimated transmissivity at 20,000psf, 0.02 gradient, seating time of 100hrs.

Thanks,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Connie Wong, <cowong@solmax.com>
Sent: Tuesday, October 16, 2018 11:09 AM
To: Ortega, Alex <AOrtega@scsengineers.com>
Cc: Patty Beaubien <pbeaubien@solmax.com>; Vincent Diviacchi <vdiviacchi@solmax.com>
Subject: RE: Transmissivity Information

Alex,

For FabriNet 300 composite, the estimated transmissivity at 20,000psf, 0.02 gradient, seating time of 100hrs are listed below.

Boundary condition: sand/GC/GM – 3.4 x 10-4 m2/s
Boundary condition: GM/GC/GM – 6.2 x 10-4 m2/s

If you have the design/required transmissivity, it will be easier for us to recommend a product for you.
Please let me know if I can provided further information. Thanks

CONNIE WONG,
Support Engineer-Drainage & Geogrid Products
+1 281 230 5830
+1 832 495 5005
cowong@solmax.com

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Ortega, Alex <AOrtega@scsengineers.com>
Sent: Tuesday, October 16, 2018 7:20 AM
To: Connie Wong, <cowong@solmax.com>
Subject: RE: Transmissivity Information

Hi Connie,

I just wanted to know if you got my email. If not, it's with regard to Transmissivity values for a 20,000 psf loading for both the 250 mil and 300 mil.

I appreciate all the help!

Have a nice day,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Ortega, Alex
Sent: Monday, October 15, 2018 4:06 PM
To: 'Connie Wong,' <cowong@solmax.com>
Subject: RE: Transmissivity Information

Hi Connie,

Let me know if you can send me the Transmissivity values for a loading of 20,000 psf for the 250 mil and 300 mil.

Thanks!

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Ortega, Alex
Sent: Monday, October 15, 2018 8:44 AM
To: 'Connie Wong,' <cowong@solmax.com>
Subject: RE: Transmissivity Information

Hi Connie,

Thanks for the information.

Do you have Transmissivity values for a loading of 20,000 psf for each case?

Let me know.

Have a nice week!

Regards,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Connie Wong, <cowong@solmax.com>
Sent: Friday, October 12, 2018 5:35 PM
To: Ortega, Alex <AOrtega@scsengineers.com>
Subject: RE: Transmissivity Information

Hi Alex,

For FabriNet 250 and 300, the transmissivity is listed below. Please note that all the data is assume that the geotextile is 6 or 8oz/sy double sided composite, if the geotextile weight is higher than 8oz/sy, the transmissivity will be lower.

0.02 gradient, sand/GC/GM, 100 hours		
Loading	FabriNet 250	FabriNet 300
(psf)	Transmissivity (m2/s)	
1,000	1.50E-03	3.00E-03
10,000	2.50E-04	1.40E-03
15,000	1.00E-04	8.10E-04

0.02 gradient, GM/GC/GM, 100 hours		
Loading	FabriNet 250	FabriNet 300
(psf)	Transmissivity (m2/s)	
1,000	1.80E-03	3.40E-03
10,000	3.00E-04	1.60E-03
15,000	1.20E-04	9.50E-04

Regards,

CONNIE WONG,
Support Engineer-Drainage & Geogrid Products
+1 281 230 5830
+1 832 495 5005
cowong@solmax.com

SOLMAX GSE

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Ortega, Alex <AOrtega@scsengineers.com>
Sent: Friday, October 12, 2018 10:55 AM
To: Connie Wong, <cowong@solmax.com>
Subject: Transmissivity Information

Hi Connie,

Sorry to bother you with more information.

Can you provide us with the same information for:

1. Double sided Fabrinet 250 mil geocomposite
   1,000 psf
   10,000 psf
   15,000 psf
   20,000 psf

2. Double sided Fabrinet 300 mil geocomposite

1,000 psf
10,000 psf
15,000 psf
20,000 psf

Once again, thanks for all the help.

Regards,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Ortega, Alex
Sent: Friday, October 12, 2018 9:48 AM
To: Connie Wong, <cowong@solmax.com>
Subject: RE: Transmissivity Information

Connie,

Thanks for the information! I'll let you know if we need anything else.

I appreciate your time.

Have a nice Friday.

Regards,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

From: Connie Wong, <cowong@solmax.com>
Sent: Thursday, October 11, 2018 3:36 PM
To: Ortega, Alex <AOrtega@scsengineers.com>
Subject: RE: Transmissivity Information

Dear Alex,

Regarding the transmissivity data on TenDrain and TenFlow composite, I listed the available data on both boundary condition you specified, see below. Please note that we recommended TenFlow composite for low loading application. If loading is higher than 10,000psf, I suggest you consider DuraFlow as an alternative.

0.02 gradient, sand/GC/GM, 100 hours		
Loading	TenDrain 300	TenFlow 350
(psf)	Transmissivity (m2/s)	
1,000	5.60E-03	7.00E-03
10,000	3.30E-03	4.20E-03
15,000	2.85E-03	N/A

0.02 gradient, GM/GC/GM, 100 hours		
Loading	TenDrain 275	TenFlow 330
(psf)	Transmissivity (m2/s)	
1,000	4.50E-03	5.30E-03
10,000	2.50E-03	3.50E-03
15,000	2.00E-03	N/A

Please let me know if I can provide further information.

Thank you

CONNIE WONG,
Support Engineer-Drainage & Geogrid Products
+1 281 230 5830
+1 832 495 5005
cowong@solmax.com

SOLMAX GSE

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Ortega, Alex <AOrtega@scsengineers.com>
Sent: Wednesday, October 10, 2018 2:36 PM
To: Connie Wong, <cowong@solmax.com>
Subject: Transmissivity Information

Hi Connie,

I'm writing on behalf of SCS Engineers (Ian Spurlock gave me you contact). We need certain information that you might be able to help us with.

We need **transmissivity** data for:

1. TenDrain **300** mil Geocomposite
2. TenFlow **350** mil Gecomposite

With the following information:
Gradient: 2%
Transmissivity: 100 hour
Sand/Geocomposite/Geomembrane

As well as:

3. TenDrain **275** mil Geocomposite
4. TenFlow **330** mil Gecomposite (double-sided)

With the following information:
Gradient: 2%
Transmissivity: 100 hour
Geomembrane / Geocomposite / Geomembrane

The **loading** that we require data for are:
1,000 psf
2,000 psf
10,000 psf
15,000 psf
17,000 psf
17,225 psf
20,000 psf

Let me know if you need any other information.

I appreciate all the help.

Best regards,

Alex Ortega
Staff Professional
SCS Engineers
3922 Coconut Palm Drive, Suite 102
Tampa, Florida 33619
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

Driven by Client Success
www.scsengineers.com

Selection of Densities for Use in Landfill Design Calculations

Timothy G. Townsend, PhD, PE
Department of Environmental Engineering Sciences
University of Florida

November 8, 2004

1.0 Introduction

An estimate of the density of materials disposed in a landfill is necessary for several steps in the design of a municipal solid waste (MSW) landfill. These steps include, but are not limited to:

- Sizing and capacity calculations
- Foundation analysis
- Pipe sizing
- Geonet specification

Selection of an appropriate density is complicated by the fact that landfilled material densities vary as a function of the type of waste, degree of compaction, amount and type of cover soil used, moisture content, and degree of waste decomposition.

The purpose of this design memo is to provide guidance on the selection of densities to use in engineering design calculations for MSW landfills. Included are a fundamental concepts pertaining to density of materials in landfills, densities reported in the literature, and recommended densities for different landfill conditions.

2.0 Fundamental Concepts

2.1 Definition and Units.

The density (ρ) of a material is defined as the mass of the material (M) per unit volume of that material (V).

$$\rho = \frac{M}{V}$$

Several different densities may be referred to depending upon the application. For most soils and wastes, the term density in normally used to describe the "bulk density," which is the combined mass of the solids and the accompanying moisture per total volume of bulk material (including the air or void spaces within the material). In this memo, the bulk density will be defined as follows:

$$\rho_T = \frac{M_T}{V_T}$$

It is common in some geotechnical engineering applications (e.g., development and presentation of a compaction curve) to describe the dry bulk density (ρ_d) and the density of the solid particles (ρ_s). These terms are respectively defined as:

$$\rho_d = \frac{Ms}{V_T}$$

$$\rho_s = \frac{M_T}{V_T}$$

In this memo, unless otherwise indicated, the term density refers to bulk density (ρ_T; including moisture).

The most common units for describing the density of landfilled materials in the English system of units are lbs per cubic yard (pcy) and lbs per cubic ft (pcf). Since "lb" is a weight unit, something with units of pcy or pcy would more correctly be identified as specific weight. It is convention, however, in soils and landfill engineering to refer to weight per unit volume as density. This convention will be used in this design memo. The most commonly encountered metric units for density are kg/m^3 and tonne/m^3 (1,000 kg = 1 tonne).

2.2. Waste *versus* Soil

The amount of cover soil (or other cover materials) placed in a landfill greatly impacts the density of the resulting mixture of landfilled material. It is important to identify which density is being referred to when selecting a density value. For example, equipment manufacturers may describe the density of waste that may be achieved by a particular machine or compaction strategy. It is the bulk density of the combined waste and cover soil together, however, that is used in most landfill design calculations.

If the ratio of the volume of cover soil to the volume of the compacted landfill waste is defined as the cover content (CCv), the bulk density of the landfilled material ($\rho_{landfill}$) may be determined as a function of the bulk densities of the waste (ρ_{waste}) and the cover soil (ρ_{cover}) as follows:

$$\rho_{T,Landfill} = \rho_{T,waste}\left(\frac{1}{1+CC_V}\right) + \rho_{T,cover}\left(1-\frac{1}{1+CC_V}\right)$$

Although the focus of the rest of the discussion is on soil as the cover material, at some sites other, less-dense materials may also be used (e.g., yard trash, mulch).

3.0 Density Values from the Literature

3.1 Soil Density

Soil densities vary depending upon soil type and mineralogy, compaction, and moisture content. Typical soil densities used in landfill design rang from 105 to 125 pcf.

3.2 MSW Density

The density of MSW depends highly on compaction effort. MSW densities in a compactor truck are on the order of 500 – 700 pcy, while densities in a well-compacted modern landfill are typically reported in the range of 1,000 to 1,600 pcy.

4.0 Factors Impacting Density

In addition to the amount of cover soil used in a landfill, several other factors also impact the density of the landfilled waste and thus the overall density of the landfilled material. Four such factors are reviewed.

4.1 Compaction Effort

The compaction effort applied to the waste certainly impacts waste decomposition. The compaction effort applied to the waste depends upon the type of equipment used (weight of vehicle, cleat design) and the operating technique (e.g., number of passes). As an example, Figure 1 shows the reported density of MSW achieved using four different pieces of equipment as a function of the number of passes made.

4.2 Overburden Pressure

As the depth of landfilled waste becomes larger, the degree of overburden pressure applied to the lower lifts of waste becomes larger. When the stress resulting from the overburden pressure becomes larger than the stress caused by the initial compact effort, the waste density will increase. Although some research has been conducted on the relationship between overburden stress and density, available data are still limited. Figures 2 and 3 show the results of one such study on MSW from the United Kingdom (figure 2 shows dry density and figure 3 shows density at field capacity). These data were produced in large-scale compression cylinders. The lines presented in the graphs are best fit lines of waste density as a function of average effective stress (e.g., overburden pressure in unsaturated waste). Certainly there is a need to develop additional data of this nature; these data do provide the design engineer some ability to estimate waste density in deep landfills.

4.3 Moisture Content

Moisture content can impact waste density in several manners. First, the presence of water adds to the weight, and thus density, of the waste. The presence of water can also increase waste decomposition (see the next section for this impact). Changes in density can become important when evaluating landfill densities at landfills where water is purposefully added (e.g., bioreactor landfills). If one knows the dry density of waste, the wet density can be calculated as follows:

$$\rho_T = \frac{\rho_d}{1 - MC}$$

where MC is the moisture content (mass of water per total (*wet*) mass of material). If one knows the total (wet) density of the material, and density that would occur at a new MC can be determined as follows:

$$\rho_{T,final} = \rho_{T,initial} \frac{1 - MC_{initial}}{1 - MC_{final}}$$

A typical target for moisture content of waste in a bioreactor landfill is the waste's field capacity, which for compacted MSW is generally in the range of 35% to 40% by total weight.

4.4 Degree of Biodegradation

MSW biodegrades in a landfill in most cases under anaerobic conditions. A fraction of the mass of organic matter in the landfill is converted to methane and carbon dioxide which ultimately leave the landfill as the landfill biogas. Some small amount of mass may also leave the landfill dissolved in the leachate. The decomposition of waste in the landfill may have two effects. First, as waste mass is loss, some volume of waste is also lost; this results in a greater ratio of cover soil to waste, and thus a greater landfilled material density. Second, as waste decomposes, the density of the waste itself may change. This process, however, is not very well understood. Most waste samples that have been excavated from a landfill also contain soil, and thus assessing the true waste density is very difficult.

As a simple estimate, the density of waste material in a landfill before and after waste decomposition may be estimated by assuming that the amount of waste mass loss corresponds to an equal amount of volume loss (e.g., 25% loss in mass corresponds to 25% loss in volume). This relationship needs further research, but the simple assumption does provide the design engineer the ability to logically account for increases in waste density for decomposed garbage. If one assumes that the density of the fresh waste and the decomposed waste are similar, the primary change is the cover content (CCv). If the fraction of waste that remains after decomposition is defined as F_x, the cover content after waste decomposition may be described as:

$$CC_{V,final} = CC_{V,initial} \frac{1}{f_x}$$

Figure 3 presents total landfilled material density (wet basis) as a function of cover soil content (CC_V) for three different conditions:

- Typical landfill conditions (typical MC, no biodegradation)
- Wet conditions with no decomposition (waste at field capacity)
- Wet conditions with decomposition (waste at field capacity, some waste volume loss from decomposition)

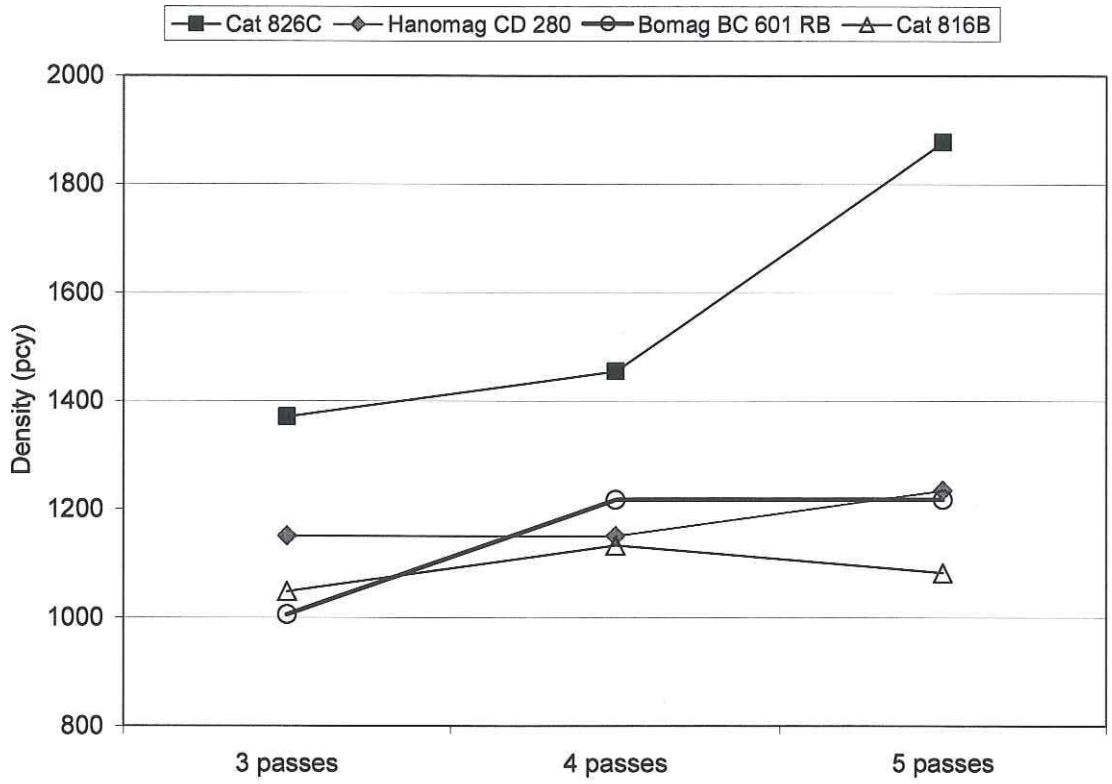


Figure 1. Example of Relationship Between Waste Density and Compaction Effort

Source: Cat 816B & 826C Compaction Study vs Hanomag CD280, Bomag 601 RB (1995). Caterpillar Product Information.

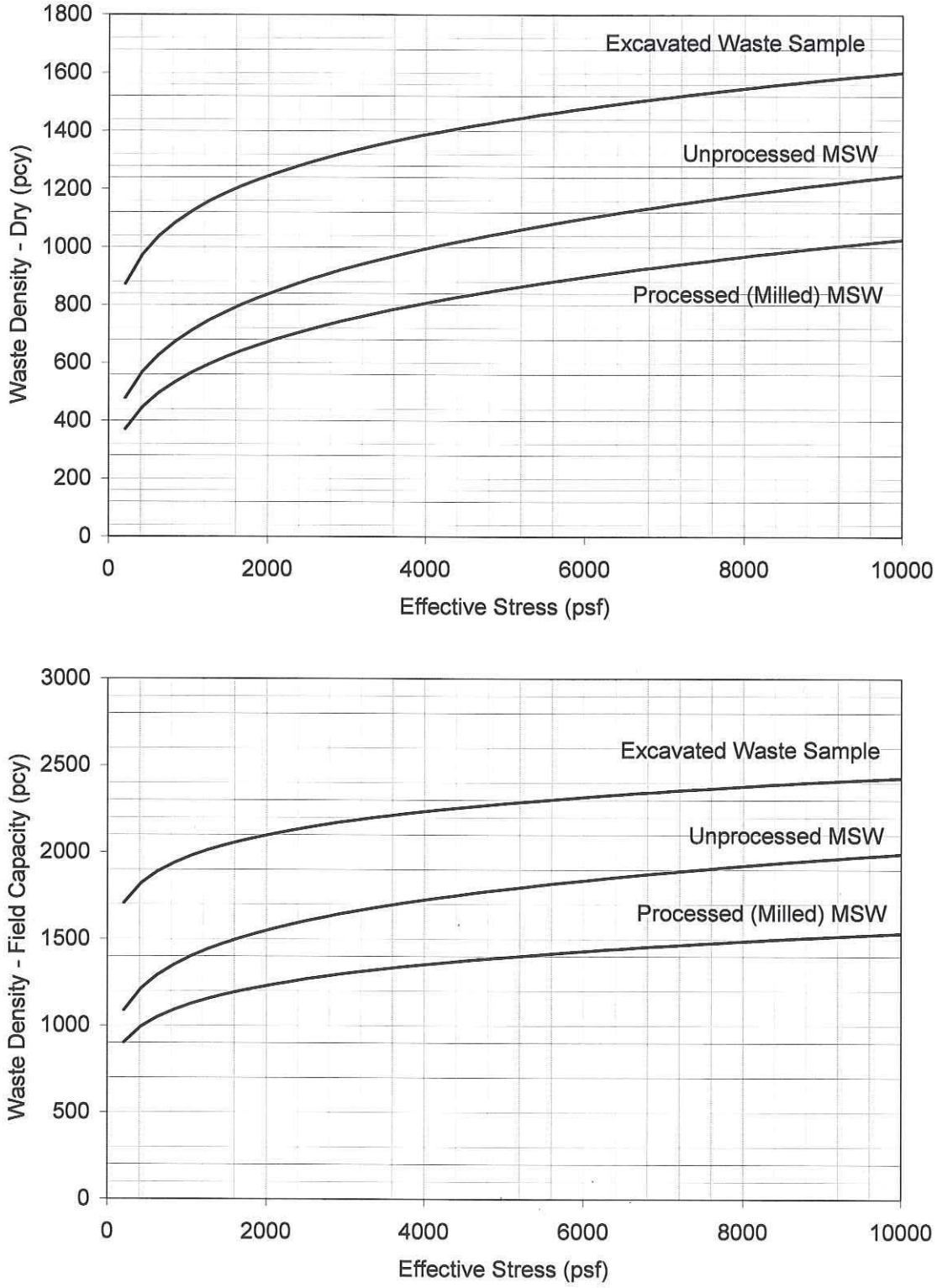


Figure 2. Example of Relationship Between Waste Density and Overburden Pressure (top plot is for dry density; bottom plot is for density at field capacity). Source: Beaven, R. (2000). "The hydrogeologic and geotechnical properties of household waste in relation to sustainable landfilling." University of London.

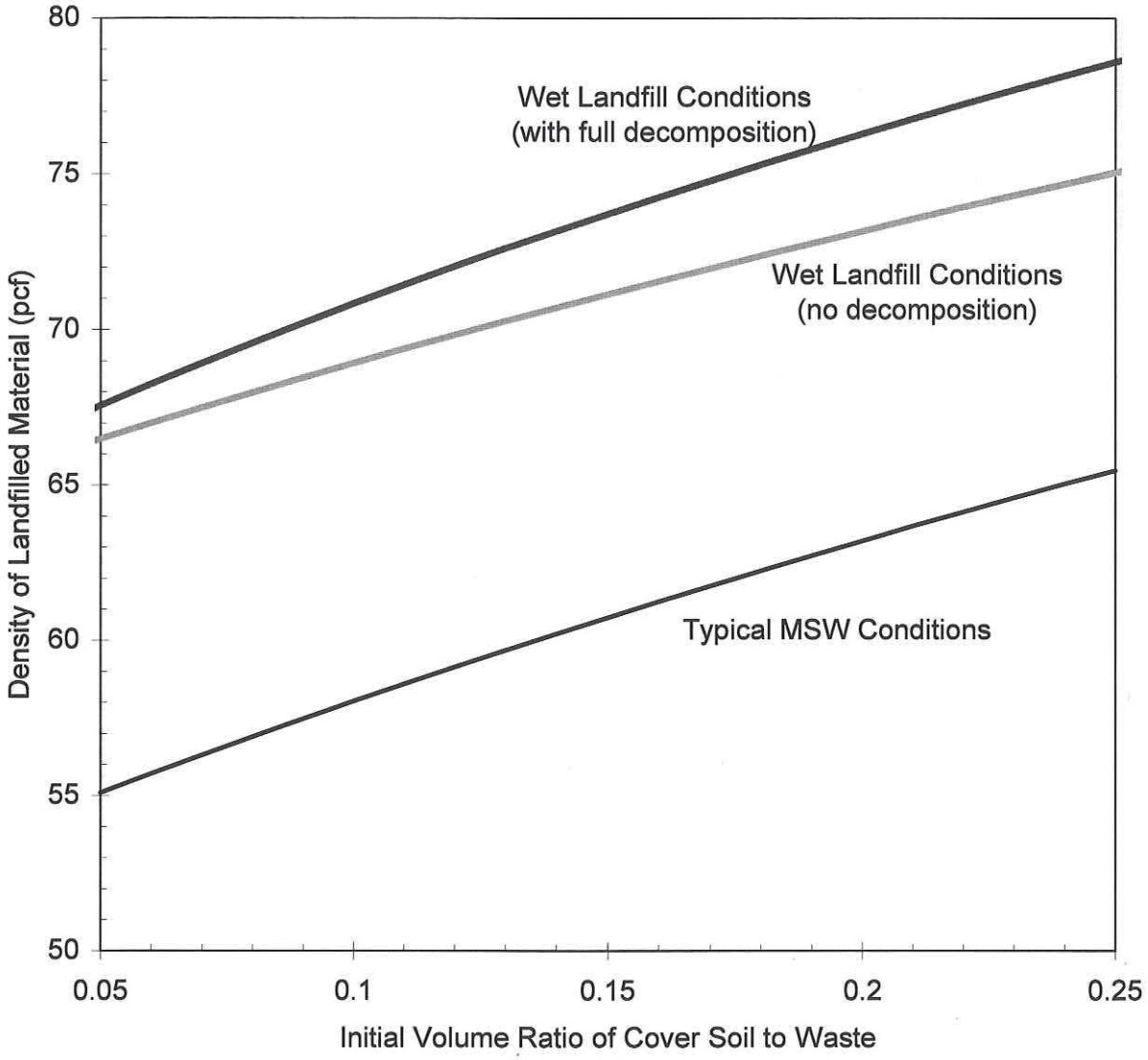


Figure 3. Density of Landfill Material as a Function of CC_V for Three Separate Conditions

I. Typical MSW Conditions

Waste: MC = 20%, $\rho_{T,waste}$ = 1,400 pcy, f_x = 1.0

Soil: $\rho_{T,soil}$ = 120 pcf

II. Wet Landfill Conditions (no decomposition)

Waste: Waste: MC = 35%, Initial $\rho_{T,waste}$ = 1,400 pcy, f_x = 1.0

Soil: $\rho_{T,soil}$ = 120 pcf (assume no change with added moisture)

III. Wet Landfill Conditions (no decomposition)

Waste: Waste: MC = 35%, Initial $\rho_{T,waste}$ = 1,400 pcy, f_x = 0.7

Soil: $\rho_{T,soil}$ = 120 pcf (assume no change with added moisture)

5.0 Recommended Design Densities

The specific design density used as part of a landfill design should be a function of site specific operating conditions and the objectives of the design. The following table presents landfilled material densities for several different assumed site conditions. The depth of the waste and its impact on overburden pressure were factored into this analysis using the relationships developed by Beaven.

Assumptions:

Initial Waste Density = 1,400 pcy (total (wet) basis)

Initial Waste Moisture Content = 20%

Waste Moisture Content at Field Capacity = 35%

Soil Density = 120 pcf

Volumetric Cover Content (CC_V) = 0.15

Waste Remaining After Decomposition (f_x) = 0.7

Landfill Depth (ft)	Average Landfilled Material Density (pcf)		
	Traditional Landfill (no added water, no decomposition)	New Bioreactor Landfill (water added to field capacity, no mass loss)	Old Bioreactor Landfill (water added to field capacity, waste degraded)
50	60.7	71.1	73.7
100	60.7	72.2	74.9
150	61.8	74.5	77.2
200	63.6	76.6	79.3
250	65.6	78.5	81.2
300	67.1	80.2	82.9

$$k_{LTIS} = \frac{k_{measured}}{\prod(RF)} = \frac{k_{measured}}{RF_{PC} \times RF_{CC} \times RF_{BC}} \quad (15)$$

where: k_{LTIS} = long-term-in-soil hydraulic conductivity of the granular material, i.e. hydraulic conductivity of the granular material located in the soil and subjected to conditions that can cause the development of clogging during the design life of the liquid collection layer; and $k_{measured}$ = hydraulic conductivity of a specimen of granular material representative of the granular material as installed, measured in a hydraulic conductivity test performed with water during a short period of time so that clogging does not develop.

1.7.4 *Factor of Safety*

In addition to the reduction factors described in Sections 1.7.2 and 1.7.3, a factor of safety, *FS*, is used in all calculations to take into account possible uncertainties, such as the fact that the measurement of hydraulic characteristics (i.e. hydraulic conductivity and hydraulic transmissivity) is generally delicate and prone to errors. Values such as 2 or 3, or sometimes greater values, are typically recommended for the factor of safety.

In the equations provided in the present paper, there are two ways of using a factor of safety. The factor of safety can be applied to the maximum liquid thickness, FS_T, or to the relevant hydraulic characteristic, FS_H, i.e. the hydraulic transmissivity in the case of a geosynthetic liquid collection layer or the hydraulic conductivity in the case of a granular liquid collection layer. The two ways (factor of safety on the maximum liquid thickness and factor of safety on the hydraulic characteristic) will be compared.

It is important to note that FS_T and FS_H are not partial factors of safety to be used simultaneously. They are two ways of expressing the factor of safety of the liquid collection layer.

1.7.5 *Use of Reduction Factors and Factor of Safety*

As indicated in Section 1.3, there are two design approaches: the thickness approach (described in Section 3) that consists of calculating the maximum liquid thickness, and the hydraulic characteristic approach (described in Section 4) that consists of calculating the required hydraulic conductivity of the liquid collection layer material or the hydraulic transmissivity of the liquid collection layer. Use of the reduction factors in these two approaches is described in Section 3 for the thickness approach and in Section 4 for the hydraulic characteristic approach.

1.8 Design Options

The flow capacity of a liquid collection layer depends on two sets of characteristics: the intrinsic characteristics of the liquid collection layer and the characteristics of the slope on which the liquid collection layer is installed. The intrinsic characteristics are the thickness of the liquid collection layer and the hydraulic conductivity of the liquid collection layer material (or the hydraulic transmissivity of the liquid collection layer, which is the product of the thickness and hydraulic conductivity). The characteristics

al is associated with a geotextile, whether the transmissive material and the geotextile were bonded together in a factory or sequentially installed against each other in the field.

1.3 Purpose and Organization of the Present Paper

The purpose of the present paper is to provide a complete methodology for the hydraulic design of liquid collection layers. In the context of the present paper, the terminology "hydraulic design" refers to the design steps required to check that the liquid collection layer being designed has sufficient flow capacity to ensure that the thickness of liquid in the liquid collection layer is less than an allowable thickness (Section 1.6). Therefore, the hydraulic design of liquid collection layers requires the calculation of the maximum liquid thickness. To that end, the present paper provides in Section 2 a variety of relationships between the maximum liquid thickness, the liquid supply, the characteristics of the liquid collection layer, and the geometry of the slope on which the liquid collection layer is located. Some of the relationships are relatively complex and give accurate solutions; others are relatively simple and give approximate solutions. The validity of all approximations is assessed, and practical guidance is given for the use of the equations.

The hydraulic design of a liquid collection layer can be done by following one of two approaches: the "thickness approach" and the "hydraulic characteristic approach". With the thickness approach, a given liquid collection material is considered and the design engineer checks that the maximum liquid thickness is less than the allowable thickness. The thickness approach is described in Section 3. With the hydraulic characteristic approach, the design engineer determines the hydraulic characteristics of the liquid collection material needed to ensure that the liquid thickness is less than the allowable thickness. The hydraulic characteristic approach is described in Section 4. Design examples are used to illustrate both approaches.

The equations presented in Section 2 (and the application of these equations presented in Sections 3 and 4) are not valid for vertical liquid collection layers. The case of vertical (and quasi-vertical) liquid collection layers will be addressed in a future paper.

1.4 Definitions and Assumptions

1.4.1 *Description and Geometry of Liquid Collection Layers*

The liquid collection layer is assumed to be underlain by an impermeable liner. Therefore, no liquid is lost by infiltration into or through the material underlying the liquid collection layer.

The liquid collection layer is located on a slope with an angle β (Figure 1). The slope angle is assumed to be less than 90° ($\beta < 90°$). The case of vertical liquid collection layers is not addressed in the present paper.

There is an effective drain at the toe of the slope and the liquid level in the drain is always significantly lower than the elevation of the liner at the toe of the slope. Therefore, the flow of liquid in the liquid collection layer is not impeded at the toe of the slope.

For the development of the equations presented in the present paper, the liquid collection layer is assumed to be rectangular with a length, L, measured in the direction of the flow (i.e. the direction of the slope), and a width, B, perpendicular to the direction

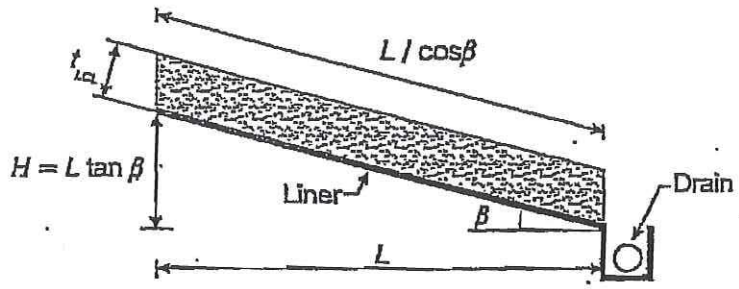


Figure 1. Liquid collection layer.

of the flow. The length, L, is measured horizontally (i.e. L is the length of the horizontal projection of the slope), whereas the width, B, is horizontal.

The thickness of the liquid collection layer is t_{LCL} measured perpendicular to the slope (Figure 1). It is important to note that, when a geocomposite is used as a liquid collection layer, t_{LCL} is the thickness of the transmissive component of the geocomposite (i.e. the core of the geocomposite), not the total thickness of the geocomposite including the geotextile (Section 1.2).

1.4.2 *Hydraulic Characteristics of Liquid Collection Layers*

The liquid collection layer material is characterized by its hydraulic conductivity, k. The liquid collection layer is characterized by its hydraulic transmissivity, θ, which is defined by the following equation:

$$\theta = k\, t_{LCL} \tag{1}$$

where t_{LCL} is the thickness of the transmissive component of the geocomposite. When the liquid collection layer is a geosynthetic, the hydraulic transmissivity of the geosynthetic is measured using a hydraulic transmissivity test. The hydraulic conductivity of the geosynthetic is then derived from the hydraulic transmissivity using the following equation derived from Equation 1:

$$k = \frac{\theta}{t_{LCL}} \tag{2}$$

Equation 2 is very useful because in a number of the equations provided in the present paper, the relevant property of the liquid collection layer material is the hydraulic conductivity, whereas the given properties in the case of a geosynthetic liquid collection layer are generally the hydraulic transmissivity and the thickness.

It should be noted that hydraulic transmissivity and hydraulic conductivity of geosynthetics are not constant material properties, as they are functions of the hydraulic gradient (and, consequently, of the slope of the liquid collection layer). Hydraulic transmissivity and hydraulic conductivity values should, therefore, be obtained from tests performed under a range of hydraulic gradients representative of field conditions.

1.4.3 *Liquid Thickness, Depth, and Head*

The flow is characterized by the liquid thickness, t, which is measured in the direction perpendicular to the slope (Figure 2). The liquid thickness is different from the liquid depth, which is measured vertically. When liquid flows parallel to the slope, which is approximately the case in all liquid collection layers (and which is exactly the case at the location where liquid thickness is maximum), the following classical relationships exist:

$$t = D \cos\beta \tag{3}$$

$$t = h / \cos\beta \tag{4}$$

$$h = D \cos^2\beta \tag{5}$$

where: D = liquid depth; β = slope angle; and h = hydraulic head. The hydraulic head (or, more accurately, the hydraulic head above the liner located at the base of the liquid collection layer) is the difference in elevation between two points located on the same equipotential surface, one being on the liquid surface, the other being on the liner (see the note below the Figure 2 caption).

1.4.4 *Liquid Supply and Flow*

The amount of liquid supplied to the liquid collection layer is defined by the rate of liquid supply, which is the volume of liquid per unit area and unit time supplied to the

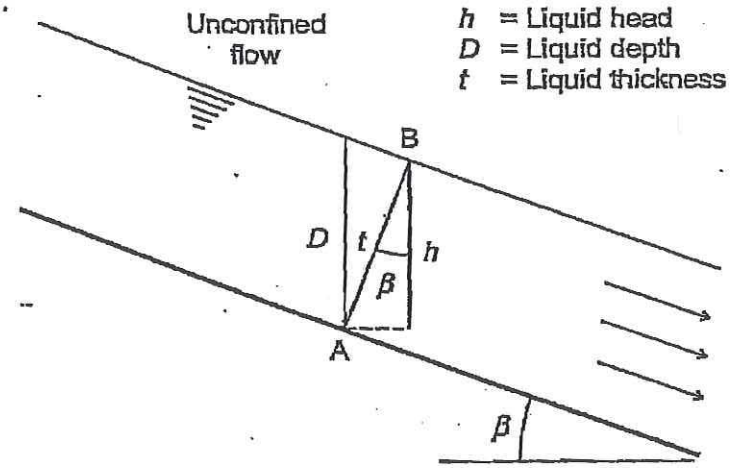


Figure 2. Thickness, depth, and head of liquid on top of the liner in the case of unconfined flow parallel to a slope.

Notes: AB is an equipotential line because it is perpendicular to the flow lines. The head above the liner, h, is the difference in elevation between Points B and A.

liquid collection layer. Theoretically, any orientation may be selected for the unit area used in the definition of the rate of liquid supply, provided that this orientation is properly taken into account in the calculations. For the sake of simplicity, a horizontal unit area is used in the definition of the rate of liquid supply for the case of liquid collection layers that are not vertical (i.e. the cases addressed in the present paper). The rate of liquid supply is then noted q_h and is defined by the following equation:

$$q_h = \frac{Q_h}{A_h} \tag{6}$$

where Q_h is the rate of liquid flow through a horizontal area A_h.

The rate of liquid flow through a horizontal area, A_h, can be measured using a horizontal pan with a surface area A_h (Figure 3):

$$Q_h = A_h D_L / \Delta t^* \tag{7}$$

where D_L is the depth of liquid collected in the pan during the time Δt^*.

Combining Equations 6 and 7 gives:

$$q_h = \frac{D_L}{\Delta t^*} \tag{8}$$

Equations 6, 7, and 8 can be used with any set of coherent units. The basic SI units are: Q_h (m^3/s), A_h (m^2), D_L (m), Δt^* (s), and q_h (m/s). For example, if the liquid supply is rainwater, and 100 mm of rain is collected in one day, $D_L = 0.1$ m and $\Delta t^* = 1$ day = 86,400 s. Equation 8 then gives $q_h = 0.1/86{,}400 = 1.157 \times 10^{-6}$ m/s.

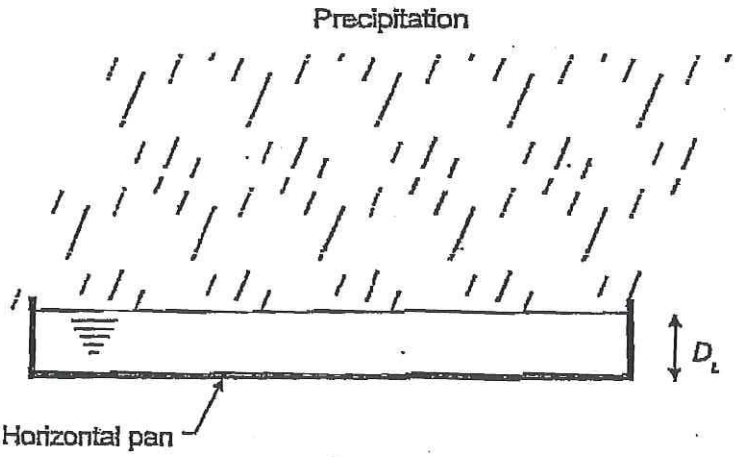


Figure 3. Measurement of the rate of liquid flow through a horizontal area.

It should be noted that no assumption is required regarding the orientation of the rainfall; i.e., whether the rain falls vertically or at an angle, the definition of q_h remains the same. In the present paper, it is assumed that the rate of liquid supply is uniform over the entire area of the liquid collection layer and is constant over time (i.e. steady-state flow conditions are assumed).

Water and aqueous liquids are incompressible; therefore, mass conservation results in volume conservation. Since steady-state flow conditions are assumed, the principle of mass conservation results not only in volume conservation, but also in flow rate conservation. Also, the flow is assumed to be unconfined (Section 1.3), i.e. the considered equations are valid only if the maximum liquid thickness, t_{max}, is less than the thickness of the liquid collection layer, t_{LCL}.

Capillarity affects essentially unsaturated flow (i.e. flow in zones where the liquid collection layer material is not saturated) and flow under transient conditions that precede the establishment of steady-state flow conditions. In the present paper, the liquid collection layer material is assumed to be saturated in the entire zone comprised below the liquid surface, and steady-state flow conditions are assumed, as mentioned above. Therefore, capillarity has no effect, or a negligible effect, on the type of flow discussed in the present paper. Consequently, capillarity is not considered in the present paper.

1.5 Description of Flow in Liquid Collection Layers

In the case of unconfined flow and under steady-state flow conditions, the profile of the liquid surface in a liquid collection layer is as shown in Figure 4 (from Giroud and Houlihan 1995). The liquid profile depends on a dimensionless parameter, λ, defined by:

$$\lambda = \frac{q_h}{k \tan^2 \beta} \tag{9}$$

The dimensionless parameter λ is extensively used in the present paper, where it is sometimes referred to as the "characteristic parameter" because it characterizes the liquid collection layer and the liquid supply.

In the general case ($\lambda \neq 0$), the slope of the liquid surface increases from the top to the toe of the liquid collection layer slope. As a result, the hydraulic gradient increases from the top to the toe of the liquid collection layer slope. The maximum value of the liquid thickness, t_{max}, occurs at a certain point between the top and the toe of the slope (Figures 4a and 4b). The location of this point is discussed in Section 2.8.

Another dimensionless parameter, R, is also used in the present paper. This parameter is defined as follows:

$$R = \frac{q_h}{k \sin^2 \beta} \tag{10}$$

Combining Equations 9 and 10 gives:

$$\lambda = R \cos^2 \beta \tag{11}$$

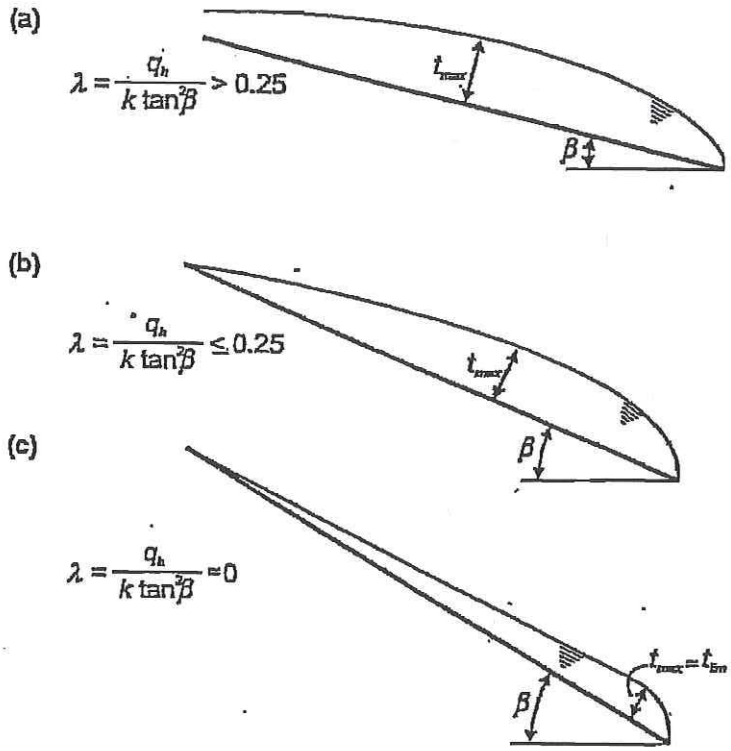


Figure 4. Profile of flow: (a) in the general case, for $\lambda > 0.25$; (b) in the general case, for $\lambda \leq 0.25$; (c) in the case where $\lambda = 0$.

Notes: The dimensionless parameter λ is defined by Equation 9. At the toe of the liquid collection layer slope, the liquid thickness t_{toe} is very small. At the scale of the figure, it appears to be zero. A very small liquid thickness is possible at the toe of the slope because the liquid surface is vertical at the toe of the slope and, as a result, the hydraulic gradient is very high (Appendix B). In the case where $\lambda = 0$, the maximum liquid thickness is approximately equal to t_{liq} and occurs near the toe of the liquid collection layer slope.

In the special case defined by $\lambda = R = 0$, the slope of the liquid surface is constant and approximately equal to β because, in this case, the liquid thickness is almost zero. In this case, the maximum liquid thickness occurs approximately at the toe of the slope (Figure 4c).

1.6 Allowable Liquid Thickness

The allowable liquid thickness, t_{allow}, is the thickness that the maximum liquid thickness should not exceed (Section 1.3). The allowable liquid thickness is the lesser of: (i) a maximum liquid thickness prescribed by regulation (if any regulation is applicable to the considered case), for example 0.3 m, as it is often the case in landfills in the United States; and (ii) the thickness of the liquid collection layer. It is important that the liquid thickness be less than the liquid collection layer thickness to ensure that there

is no pressure buildup in the liquid collection layer. In other words, the flow must be "unconfined". A detailed discussion of the rationale for the unconfined flow requirement is provided by Giroud et al. (2000a).

In the case of a geocomposite, the thickness of the liquid collection layer is the thickness of the transmissive component of the geocomposite (i.e. the core of the geocomposite). The thickness of geosynthetics currently used as liquid collection layers is virtually always less than the maximum liquid thickness prescribed by regulations. Therefore, in the case of a geosynthetic liquid collection layer, the allowable liquid thickness is virtually always the thickness of the liquid collection layer. A regulatory requirement such as a maximum liquid thickness of 0.3 m is essentially intended for granular liquid collection layers, since these layers may be thicker than 0.3 m.

Regulatory requirements regarding maximum liquid thickness exist essentially in the case of geoenvironmental structures that contain liquids likely to contaminate the ground or the ground water if they leak through the liner underlying the liquid collection layer. In contrast with the case of geoenvironmental structures, there are generally no liquid thickness requirements in the case of liquid collection layers typically used in geotechnical structures where the liquid is water. In this case, the allowable liquid thickness is the thickness of the liquid collection layer.

1.7 Long-Term-In-Soil Performance

1.7.1 *Decrease in Flow Capacity*

As indicated Section 1.3, a liquid collection layer must have sufficient flow capacity to ensure that there is no pressure buildup in the liquid collection layer. Therefore, to ensure long-term performance, the hydraulic design of a liquid collection layer must ensure that the liquid collection layer has sufficient flow capacity under the conditions that exist in the field during the entire design life of the liquid collection layer. The flow capacity under those conditions is referred to as "long-term-in-soil flow capacity". In other words, the design engineer must check that the long-term-in-soil flow capacity is adequate.

The long-term-in-soil flow capacity is likely to be less than the "virgin" flow capacity, i.e. the flow capacity of the liquid collection layer under ideal conditions, before it has been subjected to any stress or mechanism that could decrease its hydraulic characteristics. The decrease from the virgin flow capacity to the long-term-in-soil flow capacity results from instantaneous and time-dependent mechanisms that take place in a drainage medium located in the soil. These mechanisms are discussed in Section 1.7.2 for geosynthetic liquid collection layers and in Section 1.7.3 for granular liquid collection layers.

1.7.2 *Flow Capacity Reduction in the Case of Geosynthetic Liquid Collection Layers*

On a given slope (characterized by the slope angle and the slope length), the flow capacity of a liquid collection layer depends on the thickness of the liquid collection layer and the hydraulic conductivity of the liquid collection layer material. Geosynthetic liquid collection layers are typically constructed using geocomposites (Section 1.2). Therefore, the discussion presented below is essentially related to geocomposites. It

should be remembered that, as indicated in Section 1.4.1, when a geocomposite is used to construct a liquid collection layer, the thickness of the liquid collection layer is the thickness of the transmissive component of the geocomposite (i.e. the core of the geocomposite), not the total thickness of the geocomposite including the geotextile.

The flow capacity of a geocomposite in the field can be reduced by a variety of mechanisms that depend on the following parameters: applied load, time, contact with adjacent materials, and environmental conditions (e.g. presence of chemicals, biological activity, and temperature). More specifically, the thickness and/or the hydraulic conductivity of the transmissive core of a geocomposite may be reduced by instantaneous compression of the transmissive core, intrusion of the geotextile filter into the transmissive core, time-dependent compression (i.e. creep) of the transmissive core, and additional intrusion of the geotextile due to time-dependent deformation of the geosynthetic; these four mechanisms are caused by the applied stresses. In addition, chemical degradation of the polymeric compound(s) used to make the geocomposite may reduce its effective thickness and/or its hydraulic conductivity. Finally, clogging of the transmissive core may reduce its effective thickness and/or its hydraulic conductivity. Clogging results from physical, chemical, and biological mechanisms; biological clogging is typically caused by the growth of micoorganisms (Giroud 1996), but an extreme case is that of clogging due to root penetration in the drainage medium. A given mechanism (e.g. compression or clogging) may result in (or may be interpreted as) a reduction in effective thickness and/or a reduction in hydraulic conductivity. Therefore, to evaluate the decrease in flow capacity of a geocomposite, it is simpler to use the hydraulic transmissivity, which is the product of thickness and hydraulic conductivity (Equation 1). Accordingly, from a practical standpoint, the decrease in flow capacity due to the mechanisms described above is expressed by using reduction factors on the hydraulic transmissivity as follows:

$$\theta_{LTIS} = \frac{\theta_{measured}}{\prod(RF)} = \frac{\theta_{measured}}{RF_{IMCO} \times RF_{IMIN} \times RF_{CR} \times RF_{IN} \times RF_{CD} \times RF_{PC} \times RF_{CC} \times RF_{BC}} \quad (12)$$

where: θ_{LTIS} = long-term-in-soil hydraulic transmissivity of the considered geosynthetic, i.e. the minimum hydraulic transmissivity calculated for the geosynthetic subjected to the maximum stress anticipated in the soil during the design life of the liquid collection layer and subjected to all mechanisms likely to reduce its hydraulic transmissivity; $\theta_{measured}$ = value of hydraulic transmissivity measured in a laboratory test; $\Pi(RF)$ = product of all reduction factors; RF_{IMCO} = reduction factor for immediate compression, i.e. decrease of hydraulic transmissivity due to compression of the transmissive core immediately following the application of stress; RF_{IMIN} = reduction factor for immediate intrusion, i.e. decrease of hydraulic transmissivity due to geotextile intrusion into the transmissive core immediately following the application of stress; RF_{CR} = reduction factor for creep, i.e. time-dependent hydraulic transmissivity reduction due to creep of the transmissive core under the applied stress; RF_{IN} = reduction factor for delayed intrusion, i.e. decrease of hydraulic transmissivity over time due to geotextile intrusion into the transmissive core resulting from time-dependent deformation of the geotextile; RF_{CD} = reduction factor for chemical degradation, i.e. decrease of hydraulic transmissivity due to chemical degradation of the polymeric compound(s) used to make the geocomposite; RF_{PC} = reduction factor for particulate clogging, i.e. decrease of hydraulic trans-

missivity due to clogging by particles migrating into the transmissive core; RF_{CC} = reduction factor for chemical clogging, i.e. decrease of hydraulic transmissivity due to chemical clogging of the transmissive core; and RF_{BC} = reduction factor for biological clogging, i.e. decrease of hydraulic transmissivity due to biological clogging of the transmissive core.

The following comments can be made:

- θ_{LTIS} is sometimes called θ_{allow}, i.e. allowable hydraulic transmissivity. The terminology "long-term-in-soil hydraulic transmissivity" is preferred in the present paper because it lends more clarity to discussions, in particular discussions on the factor of safety.
- Each reduction factor corresponds to a mechanism that reduces the hydraulic transmissivity of the considered material in the field. If one of these mechanisms occurs during hydraulic transmissivity testing in the laboratory, to the same extent as in the field, then the corresponding reduction factor is equal to 1.0. (It is important to understand that a reduction factor equal to one does not necessarily mean that the related mechanism affecting the hydraulic transmissivity of a virgin material does not exist; it simply means that the effect of this mechanism is already incorporated in the value of $\theta_{measured}$.) An ideal hydraulic transmissivity test would perfectly simulate in the laboratory all the mechanisms that reduce the hydraulic transmissivity in the field. In this ideal case, all reduction factors would be equal to 1.0. However, such a test is not achievable from a practical standpoint because it would be extremely complex and would require a very long time.
- RF_{IMCO} and RF_{IMIN} correspond to instantaneous mechanisms (i.e. mechanisms that take place as soon as the stress is applied), whereas the other reduction factors correspond to time-dependent mechanisms.
- RF_{IMCO}, RF_{IMIN}, RF_{CR}, and RF_{IN} result from mechanical mechanisms, i.e. they are directly related to the applied stress. In contrast, RF_{CD}, RF_{PC}, RF_{CC}, and RF_{BC} result from physico-chemical mechanisms and, as such, they are not directly related to the applied stress.
- The physico-chemical mechanisms do not occur during typical hydraulic transmissivity tests that are performed with pure water. In contrast, the mechanical mechanisms may occur during the hydraulic transmissivity test, which affects the magnitude of RF_{IMCO}, RF_{IMIN}, RF_{CR}, and RF_{IN}, as discussed below.

It is important to note that the four reduction factors that result from mechanical mechanisms depend on the conditions under which the hydraulic transmissivity is measured. These conditions include: the stress applied to the specimen of transmissive material (e.g. the transmissive core or the geocomposite) during the hydraulic transmissivity test, the time during which the stress is applied before the flow rate (from which the hydraulic transmissivity is derived) is measured (the "seating time"), and the nature and behavior of the materials in contact with the transmissive material during the hydraulic transmissivity test. From this viewpoint, the following comments can be made:

- RF_{IMCO} can be eliminated (i.e. $RF_{IMCO} = 1.0$) if the hydraulic transmissivity is measured after a stress equal to, or greater than, the stress in the soil is applied to the specimen of transmissive material subjected to the hydraulic transmissivity test.

- RF_{IMIN} can be eliminated (i.e. $RF_{IMIN} = 1.0$) if the hydraulic transmissivity test simulates the boundary conditions created by the presence of materials adjacent to the transmissive material.
- RF_{CR} and RF_{IN} can be decreased if the hydraulic transmissivity is measured after the stress has been applied for a certain period of time (seating time), because part of the creep of the transmissive core and part of the delayed intrusion would have occurred before the hydraulic transmissivity is measured.

The extreme theoretical case would be the case where the hydraulic transmissivity is measured on the transmissive core placed between two smooth plates, under no load, with pure water (so none of the physico-bio-chemical mechanisms can take place), and during a period of time that is so short that none of the time-dependent mechanisms can develop. In this extreme theoretical case, all of the eight reduction factors defined above would have their maximum value. This extreme theoretical case may not exist in reality. A typical hydraulic transmissivity test is between: (i) the ideal case where all mechanisms are perfectly simulated and, consequently, all reduction factors would be equal to 1.0; and (ii) the extreme theoretical case where all of the eight reduction factors would have their maximum value. Two typical cases of laboratory test conditions can be considered and are described below.

In the first typical case of test conditions, the transmissive core is placed between two rigid plates and a load equal to or greater than the design load is sustained for a certain period of time (the seating time). In this case, the instantaneous compression takes place before the hydraulic transmissivity is measured. Therefore, $RF_{IMCO} = 1.0$. Also, some creep occurs during the seating time. As a result, the value of RF_{CR} is less than in the theoretical case where the hydraulic transmissivity would be measured at time zero. Equation 12 then becomes:

$$\theta_{allow} = \frac{\theta_{measured}}{\prod(RF)} = \frac{\theta_{measured}}{RF_{IMIN} \times RF_{CR} \times RF_{IN} \times RF_{CD} \times RF_{PC} \times RF_{CC} \times RF_{BC}} \quad (13)$$

Seating times of 100 or 300 hours are often recommended in the United States (Holtz et al. 1997). During such seating times, a significant amount of creep takes place. As a result, RF_{CR} is significantly less than it would be if the seating time were short.

If a geocomposite (i.e. transmissive core plus one or two geotextiles) is placed between the two rigid plates (instead of only the transmissive core), then, in addition to creep, some time-dependent intrusion of geotextile into the transmissive core channels occurs during the seating time. As a result, the longer the seating time, the smaller the value of RF_{IN}.

In the second typical case of test conditions, the boundary conditions created by the presence of adjacent materials are simulated. To that end, the geocomposite is placed between two materials (soil or geosynthetic) that are identical to, or that simulate, the materials that are adjacent to the considered geocomposite in the field, and the sustained load is equal to or greater than the design load. Therefore, $RF_{IMCO} = 1.0$ and $RF_{IMIN} = 1.0$. Also, some creep and some time-dependent intrusion of geotextile into the transmissive core channels occur during the seating time. As a result, the values of RF_{CR} and RF_{IN} are less than in the theoretical case where the hydraulic transmissivity would be measured at time zero. Equation 12 then becomes:

$$\theta_{LTHS} = \frac{\theta_{measured}}{\prod(RF)} = \frac{\theta_{measured}}{RF_{CR} \times RF_{IN} \times RF_{CD} \times RF_{PC} \times RF_{CC} \times RF_{BC}} \quad (14)$$

The determination of RF_{CR}, RF_{IN}, RF_{CD}, RF_{PC}, RF_{CC}, and RF_{BC} requires long-duration tests. Due to lack of time, such tests cannot be performed for the design of a specific project. Therefore, values obtained from Table 1, from the literature, or from the geosynthetic manufacturer should be used. Table 1 provides guidance regarding the values of the reduction factors for geonets and geocomposites having geonets as the transmissive core (which are the most frequently used geosynthetic liquid collection layers in landfills in the United States). However, the design engineer is cautioned that the values of the reduction factors may vary significantly depending on the type of geocomposite and the exposure conditions (stress, chemical composition of the soil and liquid). Also, as pointed out above, the values of some of the time-dependent reduction factors (e.g. RF_{CR} and RF_{IN}) may significantly vary depending on the conditions under which the hydraulic transmissivity is measured. The values given in Table 1 correspond to the case where the seating time exceeds 100 hours and the boundary conditions due to adjacent materials are simulated in the hydraulic transmissivity test. It is also possible to calculate RF_{CR} from the results of thickness measurements during compressive creep tests (tests that are easy to conduct) without the need for performing long-term hydraulic transmissivity tests (tests that are impractical and expensive), using the method developed by Giroud et al. (2000b).

Table 1. Guidance for the selection of some of the reduction factors on the flow capacity of geonets and geocomposites having a geonet transmissive core.

Examples of application	Normal stress	Liquid	RF_{IN}	RF_{CR}	RF_{CC}	RF_{BC}
Landfill cover drainage layer Low retaining wall drainage	Low	Water	1.0 to 1.2	1.1 to 1.4	1.0 to 1.2	1.2 to 1.5
Embankment, Dams, Landslide repair High retaining wall drainage	High	Water	1.0 to 1.2	1.4 to 2.0	1.0 to 1.2	1.2 to 1.5
Landfill leachate collection layer Landfill leakage collection and detection layer Leachate pond leakage collection and detection layer	High	Leachate	1.0 to 1.2	1.4 to 2.0	1.5 to 2.0	1.5 to 2.0

Notes: The reduction factors, RF_{IN}, RF_{CR}, RF_{CC}, and RF_{BC} are defined in Section 1.7.2. Table 1 was developed for the present paper, using some reduction factor values from Koerner (1998). Design engineers are cautioned that the values of the reduction factors may significantly vary depending on the type of geocomposite and the exposure conditions (stress, chemical composition of the soil and liquid). Also, as discussed in Section 1.7.2, RF_{IN} and RF_{CR} depend on the testing conditions under which the hydraulic transmissivity is measured. The reduction factor values given in Table 1 correspond to the case where the seating time exceeds 100 hours and the boundary conditions due to adjacent materials are simulated in the hydraulic transmissivity test. Finally, due to lack of relevant data, no guidance is provided for RF_{CD} and RF_{PC}. Additional information on reduction factors may be found in a paper by Zanzinger and Gartung (1999).

Also, it should be noted that RF_{CR}, RF_{CD}, RF_{CC}, and RF_{BC} (and, to a lesser degree, RF_{IN} and RF_{PC}) correspond to time-dependent mechanisms. Therefore, the values of RF_{CR}, RF_{CD}, RF_{CC}, and RF_{BC} (and, to a lesser degree, RF_{IN} and RF_{PC}) selected by the design engineer depend on the design life of the liquid collection layer. In cases where the liquid supply rate varies with time, the design engineer may consider several time periods. For example, in the case of landfills with no leachate recirculation, three phases may be considered: (i) construction and pre-operational phase; (ii) operational phase; and (iii) post-closure phase. As time elapses, the leachate collection system will typically experience a reduction in the rate of leachate that needs to be collected, but may concurrently experience a reduction of its flow capacity due to time-dependent mechanisms such as creep and clogging.

The above discussion is for geocomposites, in particular, for geocomposites whose transmissive core is a geonet (which are the most frequently used geosynthetic liquid collection layers in landfills in the United States). In the case where the geosynthetic liquid collection layer is a thick needle-punched nonwoven geotextile, the mechanisms described above exist with the exception of geotextile intrusion into the transmissive core since, in this case, the geotextile itself is the transmissive medium. In this case, the reduction factors presented above exist, but no guidance is proposed herein regarding their values.

It should be noted that the various reduction factors may not be completely independent. For example, chemical degradation may affect creep resistance (i.e. may increase RF_{CR}), and, as shown by Palmeira and Gardoni (2000), the presence of soil particles in a needle-punched nonwoven geotextile (i.e. particulate clogging) may reduce the geotextile's compressibility (i.e. it may reduce RF_{IMCD} and RF_{CR} while increasing RF_{PC}).

Finally, it should be noted that, contrary to the case of geosynthetics used for soil reinforcement, no reduction factor for installation damage is included in Equations 12 to 14. Indeed, it is generally considered that damage caused by installation is not likely to affect the hydraulic transmissivity of the geosynthetics typically used in liquid collection layers. However, design engineers may use a reduction factor for installation damage in all cases where this may appear appropriate. Also, it is possible to find in the technical literature "survivability criteria" that evaluate the ability of geotextiles, used alone or as part of geocomposites, to resist damage during installation.

1.7.3 *Flow Capacity Reduction in the Case of Granular Liquid Collection Layers*

When a granular liquid collection layer is used, the mechanisms of thickness reduction are negligible because granular materials do not exhibit any significant instantaneous thickness reduction (compression) nor time-dependent thickness reduction (creep), and the reduction in flow capacity due to geotextile intrusion is negligible because the geotextile thickness is negligible with respect to the thickness of the granular layers. Furthermore, chemical degradation that could affect the thickness and the hydraulic conductivity of a granular liquid collection layer can be avoided by proper selection of the granular material. Therefore, in the case of a granular liquid collection layer, the only relevant reduction affecting the flow capacity is the reduction of hydraulic conductivity due to clogging. As a result, the reduction in flow capacity results from a reduction in hydraulic conductivity, which can be expressed as follows:

$$k_{LTIS} = \frac{k_{measured}}{\prod(RF)} = \frac{k_{measured}}{RF_{PC} \times RF_{CC} \times RF_{BC}} \quad (15)$$

where: k_{LTIS} = long-term-in-soil hydraulic conductivity of the granular material, i.e. hydraulic conductivity of the granular material located in the soil and subjected to conditions that can cause the development of clogging during the design life of the liquid collection layer; and $k_{measured}$ = hydraulic conductivity of a specimen of granular material representative of the granular material as installed, measured in a hydraulic conductivity test performed with water during a short period of time so that clogging does not develop.

1.7.4 *Factor of Safety*

In addition to the reduction factors described in Sections 1.7.2 and 1.7.3, a factor of safety, *FS*, is used in all calculations to take into account possible uncertainties, such as the fact that the measurement of hydraulic characteristics (i.e. hydraulic conductivity and hydraulic transmissivity) is generally delicate and prone to errors. Values such as 2 or 3, or sometimes greater values, are typically recommended for the factor of safety.

In the equations provided in the present paper, there are two ways of using a factor of safety. The factor of safety can be applied to the maximum liquid thickness, FS_T, or to the relevant hydraulic characteristic, FS_H, i.e. the hydraulic transmissivity in the case of a geosynthetic liquid collection layer or the hydraulic conductivity in the case of a granular liquid collection layer. The two ways (factor of safety on the maximum liquid thickness and factor of safety on the hydraulic characteristic) will be compared.

It is important to note that FS_T and FS_H are not partial factors of safety to be used simultaneously. They are two ways of expressing the factor of safety of the liquid collection layer.

1.7.5 *Use of Reduction Factors and Factor of Safety*

As indicated in Section 1.3, there are two design approaches: the thickness approach (described in Section 3) that consists of calculating the maximum liquid thickness, and the hydraulic characteristic approach (described in Section 4) that consists of calculating the required hydraulic conductivity of the liquid collection layer material or the hydraulic transmissivity of the liquid collection layer. Use of the reduction factors in these two approaches is described in Section 3 for the thickness approach and in Section 4 for the hydraulic characteristic approach.

1.8 Design Options

The flow capacity of a liquid collection layer depends on two sets of characteristics: the intrinsic characteristics of the liquid collection layer and the characteristics of the slope on which the liquid collection layer is installed. The intrinsic characteristics are the thickness of the liquid collection layer and the hydraulic conductivity of the liquid collection layer material (or the hydraulic transmissivity of the liquid collection layer, which is the product of the thickness and hydraulic conductivity). The characteristics

Ortega, Alex

From: Connie Wong, <cowong@solmax.com>
Sent: Tuesday, October 30, 2018 3:36 PM
To: Ortega, Alex; Vincent Diviacchi
Cc: Patty Beaubien
Subject: RE: Transmissivity Information

Alex,

Creep Reduction Factor of HyperNet 300 at 15,000psf is 1.20 ; at 1,000psf is 1.01

CONNIE WONG,
Support Engineer-Drainage & Geogrid Products
+1 281 230 5830
+1 832 495 5005
cowong@solmax.com

SOLMAX GSE

19103 Gundle Road, Houston, Texas, 77073, USA

SOLMAX.COM • GSEWORLD.COM

This message contains private and confidential information. Any unauthorized disclosure is strictly prohibited. If you received it by mistake, please advise the sender and then delete it.

From: Ortega, Alex <AOrtega@scsengineers.com>
Sent: Tuesday, October 30, 2018 2:11 PM
To: Connie Wong, <cowong@solmax.com>; Vincent Diviacchi <vdiviacchi@solmax.com>
Cc: Patty Beaubien <pbeaubien@solmax.com>
Subject: RE: Transmissivity Information

Connie,

If you can also send us the Creep Reduction Factors for the 300mil bi-planar, for the loads required.

Thanks,

Alex
SCS Engineers
Tampa, FL
(813) 804-6714 (W)
(786) 602-7210 (C)
aortega@scsengineers.com

www.scsengineers.com

Appendix O-5

Pipe Strength Calculations

MAXIMUM LOAD ON LEACHATE COLLECTION PIPES

Purpose: Estimate pipe stress for leachate pipes using Condition 3.
The prism load method was used for the pipe. This is conservative for a flexible pipe application.
Condition 3
Landfill at final grade with cap installed.
Stresses due to travel of a loaded articulated dump truck traveling over 3-ft cap, 290-ft of waste, and 2-ft drainage material (LCRS).
Assumed 2:1 soil stress transferred to piping (Geotechnical Analysis. Dunn, Anderson, and Kiefer. 1980)
Proposed pipes are perforated and solid wall SDR-7 HDPE

Stressors:		
Loaded articulated dump truck, W =	107,000	lbs
Contact width, B =	0.83	ft
Track length, L =	1.67	ft
Height of truck from pipe, y =	295	ft
Pressure at top of pipe from truck based on 2:1 influence		
A = (B + y)*(L+y) =	87,764	ft2
Pressure, P = W/A =	1.22	psf
Pressure due to weight of cap, waste, and drainage material, where		
Max. prism load, q = g*h		
Layer height:		
Cap material, hc =	3	ft
Waste, hw =	290	ft
Drainage material, hl =	2	ft
Layer density:		
Cap material, gc =	115	pcf
Waste, gw =	60.7	pcf
Drainage material, gl =	115	pcf
q total = (hc*gc) + (hw*gw) + (hl*gl) =	18178	psf
Max. Pressure on Leachate Pipe (P+qtotal) = Pt =	18179.22	psf
Correct Max. Pressure for pipe perforations.		
Assume:		
Perforation diameter =	0.375	inches
Number of perforations at spacing =	3	holes
Perforation spacing =	3	inches
Number of perforations per foot =	12	holes/foot
Approx. inches of opening per foot of pipe length =	4.5	inches/foot
Corrected Max Pressure, Pt' = Pt (12/12-openings),		
per USEPA Lining of Waste Impoundment Disposal Facilities		
Pt' =	**29086.75**	**psf**
Maximum corrected pressure on leachate pipe		

PIPE DEFLECTION STRAIN ON LEACHATE COLLECTION PIPES

Purpose: Estimate Deflection in leachate piping based on Chevron-Phillips Company buried pipe design methods. Methods in Chevron Phillips Thermoplastic Pipe Engineering Manual.
Based on deflection, establish if pipe will handle the associated strain.

Given:
1. Safe deflection as % of diameter for SDR 7 pipe = 3.0 percent (Table 7-9, P. 113)

Modified Iowa Formula:
dX/Di = Pt/144 * (K*L/((2*E/3)*(1/SDR-1)^3 + 0.061E')
where:
dX = horizontal deflection, in
Di = inside diameter
Pt = pipe crown vertical pressure, psf (use max corrected pressure)
K = bedding factor, typically 0.1
L = deflection lag factor
E' = soil reaction modulus, psi
E = elastic modulus, psi (Table 5-1)
SDR = wall thickness ratio

Use:

Pt =	29,086.75	psf
K =	0.1	
L =	1	
E' (per Table 7-7) =	3,000	psi
E (per Table 5-1, p. 66) =	23,000	psi
SDR =	7	
dX/Di =	0.079528009	

Establish dX for given pipe Di

	D = 4	D=6	D=8	D=10	D=12	D=18	
Do =	4.5	6.625	8.625	10.75	12.75	18	inches
Di =	3.137	4.619	6.013	7.494	8.889	12.549	inches
Dm =	3.8185	5.622	7.319	9.122	10.8195	15.2745	inches
dX =	0.249479	0.36734	0.478202	0.595983	0.706924	0.997997	inches

PIPE DEFLECTION STRAIN ON LEACHATE COLLECTION PIPES

Based on deflection, establish strain:

e = ring bending (deflection) strain = fd* (dX/Dm)*(1.06*t/Dm)
where:
fd = deformation shape factor, use 6.0
dX = deflection, see dX values per pipe diameter above
Dm = nominal diameter taken as the average between outside and inside diameter
t = thickness of wall

	D = 4	D=6	D=8	D=10	D=12	D=18	
t =	0.643	0.946	1.232	1.536	1.821	2.571	inches

	D = 4	D=6	D=8	D=10	D=12	D=18
e =	0.069971	0.069925	0.069948	0.069968	0.06994	0.069945
e (%) =	**1.83%**	**1.83%**	**1.83%**	**1.83%**	**1.83%**	**1.83%**

DriscoPlex pipe recommends a safe value of 3% or less for "e" therefore
SDR -11 HDPE pipe is OK for use based on deflection strain (e)

COMPRESSIVE STRESS ON LEACHATE COLLECTION PIPES

Purpose: Establish the pipe can handle the compressive stress from loading.
Crushing of pipe will not occur if compressive stress is handled.
S = compressive stress = Pt*Do/(288*t)
where:
Pt = vertical load on pipe, psf = 29,086.75 psf
Do = pipe outside diameter
t = thickness of pipe

	D = 4	D=6	D=8	D=10	D=12	D=18	
Do =	4.5	6.625	8.625	10.75	12.75	18	inches
t =	0.643	0.946	1.232	1.536	1.821	2.571	inches

Use prism load value instead of modified arching load for conservative values.

S =	**706.8**	**707.3**	**707.1**	**706.8**	**707.1**	**707.1**	**psi**

The values for S are within the 800 psi allowable stress guideline from Chevron-Phillips, p. 102
Therefore pipe can handle the applied compressive stress.

PIPE WALL BUCKLING OF LEACHATE COLLECTION PIPES

Purpose: Establish the constrained pipe will not buckle from loading.

Pwc = 5.65/SF*(R*B*E'*E/12(SDR-1)^3)^.5
where:

Pwc = allowable constrained buckling pressure, psi		
N = safety factor, 2.0 minimum for application=	2	
R = buoyancy reduction factor (assume 1' leachate)=	0.998	
R = 1- 0.33(1/212) [212-ft cover above pipe]		
E' = soil reaction modulus (table 7-7) =	3000	psi
B' = elastic support factor =	0.999996	
B' = 1/(1+4*e^(-0.065*212))		
E = elastic modulus, psi (Table 5-1, p.66)	23,000	psi
SDR = pipe wall thickness ratio =	7	

Pwc =	214.00	psi
Allowable buckling pressure =	**30,816.21**	**psf**
Estimated loading pressure =	**29,086.75**	**psf**

Allowable buckling pressure is greater than estimated loading (with SF = 2) therefore pipe is OK for use.

MAXIMUM LOAD ON LEACHATE COLLECTION PIPES

Purpose: Estimate pipe stress for leachate pipes using Condition 3.
The prism load method was used for the pipe. This is conservative for a flexible pipe application.
Condition 3
Landfill at final grade with cap installed.
Stresses due to travel of a loaded articulated dump truck traveling over 3-ft cap, 220-ft of waste, and 2-ft drainage material (LCRS).
Assumed 2:1 soil stress transferred to piping (Geotechnical Analysis. Dunn, Anderson, and Kiefer. 1980)
Proposed pipes are perforated and solid wall SDR-9 HDPE

Stressors:		
Loaded articulated dump truck, W =	107,000	lbs
Contact width, B =	0.83	ft
Track length, L =	1.67	ft
Height of truck from pipe, y =	225	ft
Pressure at top of pipe from truck based on 2:1 influence		
A = (B + y)*(L+y) =	51,189	ft2
Pressure, P = W/A =	2.09	psf
Pressure due to weight of cap, waste, and drainage material, where		
Max. prism load, q = g*h		
Layer height:		
Cap material, hc =	3	ft
Waste, hw =	220	ft
Drainage material, hl =	2	ft
Layer density:		
Cap material, gc =	115	pcf
Waste, gw =	60.7	pcf
Drainage material, gl =	115	pcf
q total = (hc*gc) + (hw*gw) + (hl*gl) =	13929	psf
Max. Pressure on Leachate Pipe (P+qtotal) = Pt =	13931.09	psf
Correct Max. Pressure for pipe perforations.		
Assume:		
Perforation diameter =	0.375	inches
Number of perforations at spacing =	3	holes
Perforation spacing =	3	inches
Number of perforations per foot =	12	holes/foot
Approx. inches of opening per foot of pipe length =	4.5	inches/foot
Corrected Max Pressure, Pt' = Pt (12/12-openings),		
per USEPA Lining of Waste Impoundment Disposal Facilities		
Pt' =	**22289.74**	**psf**
Maximum corrected pressure on leachate pipe		

PIPE DEFLECTION STRAIN ON LEACHATE COLLECTION PIPES

Purpose: Estimate Deflection in leachate piping based on Chevron-Phillips Company buried pipe design methods. Methods in Chevron Phillips Thermoplastic Pipe Engineering Manual.
Based on deflection, establish if pipe will handle the associated strain.

Given:
1. Safe deflection as % of diameter for SDR 9 pipe = 3.0 percent (Table 7-9, P. 113)

Modified Iowa Formula:
dX/Di = Pt/144 * (K*L/((2*E/3)*(1/SDR-1)^3 + 0.061E')
where:
dX = horizontal deflection, in
Di = inside diameter
Pt = pipe crown vertical pressure, psf (use max corrected pressure)
K = bedding factor, typically 0.1
L = deflection lag factor
E' = soil reaction modulus, psi
E = elastic modulus, psi (Table 5-1)
SDR = wall thickness ratio

Use:

Pt =	22,289.74	psf
K =	0.1	
L =	1	
E' (per Table 7-7) =	3,000	psi
E (per Table 5-1, p. 66) =	23,000	psi
SDR =	9	
dX/Di =	0.072689085	

Establish dX for given pipe Di

	D = 4	D=6	D=8	D=10	D=12	D=18	
Do =	4.5	6.625	8.625	10.75	12.75	18	inches
Di =	3.44	5.064	6.593	8.218	9.747	13.76	inches
Dm =	3.97	5.8445	7.609	9.484	11.2485	15.88	inches
dX =	0.25005	0.368098	0.479239	0.597359	0.708501	1.000202	inches

PIPE DEFLECTION STRAIN ON LEACHATE COLLECTION PIPES

Based on deflection, establish strain:

e = ring bending (deflection) strain = fd* (dX/Dm)*(1.06*t/Dm)
where:
fd = deformation shape factor, use 6.0
dX = deflection, see dX values per pipe diameter above
Dm = nominal diameter taken as the average between outside and inside diameter
t = thickness of wall

	D = 4	D=6	D=8	D=10	D=12	D=18	
t =	0.5	0.736	0.958	1.194	1.417	2	inches

	D = 4	D=6	D=8	D=10	D=12	D=18
e =	0.050451	0.050443	0.050434	0.050433	0.050464	0.050451
e (%) =	**1.27%**	**1.27%**	**1.27%**	**1.27%**	**1.27%**	**1.27%**

DriscoPlex pipe recommends a safe value of 3% or less for "e" therefore
SDR -11 HDPE pipe is OK for use based on deflection strain (e)

COMPRESSIVE STRESS ON LEACHATE COLLECTION PIPES

Purpose: Establish the pipe can handle the compressive stress from loading.
Crushing of pipe will not occur if compressive stress is handled.
S = compressive stress = Pt*Do/(288*t)
where:
Pt = vertical load on pipe, psf = 22,289.74 psf
Do = pipe outside diameter
t = thickness of pipe

	D = 4	D=6	D=8	D=10	D=12	D=18	
Do =	4.5	6.625	8.625	10.75	12.75	18	inches
t =	0.5	0.736	0.958	1.194	1.417	2	inches

Use prism load value instead of modified arching load for conservative values.

S =	**696.6**	**696.7**	**696.8**	**696.8**	**696.4**	**696.6**	**psi**

The values for S are within the 800 psi allowable stress guideline from Chevron-Phillips, p. 102
Therefore pipe can handle the applied compressive stress.

PIPE WALL BUCKLING OF LEACHATE COLLECTION PIPES

Purpose: Establish the constrained pipe will not buckle from loading.

Pwc = 5.65/SF*(R*B*E'*E/12(SDR-1)^3)^.5
where:

Pwc = allowable constrained buckling pressure, psi		
N = safety factor, 2.0 minimum for application=	2	
R = buoyancy reduction factor (assume 1' leachate)=	0.998	
R = 1- 0.33(1/212) [212-ft cover above pipe]		
E' = soil reaction modulus (table 7-7) =	3000	psi
B' = elastic support factor =	0.999996	
B' = 1/(1+4*e^(-0.065*212))		
E = elastic modulus, psi (Table 5-1, p.66)	23,000	psi
SDR = pipe wall thickness ratio =	9	

Pwc =	214.00	psi
Allowable buckling pressure =	**30,816.21**	**psf**
Estimated loading pressure =	**22,289.74**	**psf**

Allowable buckling pressure is greater than estimated loading (with SF = 2) therefore pipe is OK for use.

Appendix O-6

Leachate Pond Evaporation Water Balance Calculations

WATER BALANCE - COMBINED CAPACITY CALCULATIONS FOR POND

Month	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
Average Rainfall (IN/month) [1]	1.17	2.99	0.35	0.43	0.85	0.00	1.33	0.29	0.42	0.00	6.29	1.03	15.15
Evaporation (IN/month) [2]	3.98	3.39	4.41	5.51	6.22	6.10	5.43	6.85	7.28	6.57	5.87	5.79	67.40
POND INPUTS													
Direct Rainfall Capture (CF) Ponds [3]	1,979	5,058	592	727	1,438	0	2,250	491	711	0	10,641	1,742	25,600
Leachate (CF)	0	51	2,084	7,115	33,617	0	508	2,693	483	0	0	0	46,551
Capture Ponds (CF)	1,979	5,109	2,676	7,842	35,055	0	2,758	3,184	1,193	0	10,641	1,742	72,200
POND OUTPUTS													
Evaporation Ponds (CF)	6,023	5,128	6,679	8,349	9,422	9,243	8,229	10,376	11,032	9,959	8,885	8,766	102,100
Total Net Water Capture Ponds (CF)	-4,044	-19	-4,003	-506	25,633	-9,243	-5,471	-7,192	-9,839	-9,959	1,755	-7,024	-29,900
Cumulative Total Water Ponds (CF) [7]	-4,044	0	0	0	25,633	16,390	10,919	3,727	0	0	1,755	0	-

SUMMARY OF POND DESIGN

Sizing Parameters Summary		
Total Surface Area of Ponds (Direct Rainfall Area)	20,300	SF
Evaporation Area of Ponds (Conservatively Assumes 1-foot below Freeboard)	18,176	SF
Maximum Potential Volume Required for Leachate	**25,633**	**CF**
Operational Capacity Provided of Ponds below 2-foot of Freeboard	**18,176**	**CF**

Notes:

[1] *Average monthly rainfall based on highest precipitation year of the past 6 years (2019)*

[2] *Evaporation based on nearest weather station to the site with evaporation data, (Lake Mohave)*

[3] *Average rainfall for November includes a 100-year 24-hour precipitation event, as this is the highest rain month for (2019)*

Table 2
MONTHLY AVERAGE RAINFALL TOTAL (KINGMAN AIRPORT, AZ) NATIONAL WEATHER SERVICE

Year	Unit	J	F	M	A	M	J	J	A	S	O	N	D	ANNUAL TOTAL
2019	inches	1.17	2.99	0.35	0.43	0.85	0	1.33	0.29	0.42	0	2.99	1.03	**11.85**
2020	inches	0.03	0.77	1.99	1.14	0.15	0	0.15	0.1	0	0	0.33	0.01	**4.67**
2021	inches	0.66	0	0.63	0.07	0	0.01	3.7	1.94	0.27	0.79	0	1.81	**9.88**
2022	inches	0.02	0.15	0.97	0	0	0.41	1.77	1.4	1.08	0.29	0.7	0.7	**7.49**
2023	inches	2.7	0.56	3.06	0	0	0	1.24	0.79	1.21	0.07	0.01	0.01	**9.65**
2024	inches	0.71	1.67	1.61	0.16	0	0	0.4	0.23	0.03	0.01	0.02	0	**4.84**
3-Year Average (2022-2024)	inches	1.14	0.79	1.88	0.05	0.00	0.14	1.14	0.81	0.77	0.12	0.24	0.24	**7.33**

Table 3

EVAPORFATION DATA, LAKE MOHAVE (MEAN 2013 -2019)

	Unit	J	F	M	A	M	J	J	A	S	O	N	D	ANNUAL TOTAL
Evaporation Monthly Average	inches	3.98	3.39	4.41	5.51	6.22	6.10	5.43	6.85	7.28	6.57	5.87	5.79	**67.40**

Appendix O-7

Leachate Pond Action Leakage Rate Calculations

This spreadsheet is based on an ADEQ Internal Memorandum dated February 2003

The equation used below is for high-permability material below the liner

NOTE: Only the cells with white background can be edited

ALERT LEVEL 1 - Hole Size (dia) = 2 mm (3.1 mm^2) - Rigorous CQA			HOLE AREA $(\pi*d^2)/(4*10^{\wedge 6})$ m^2
Q = leakage rate through a membrane hole		m^3/s	
C_B = dimensionless coefficient	0.6		
a = hole area in the geomembrane	3.14E-06	m^2	3.14E-06
g = acceleration due to gravity	9.81	m/s^2	
h = liquid depth on top on the geomembrane	1.83	m	
A = pond area (wetted area)	0.48	acres	
No. of holes per acre	1		
$Q = C_B a\sqrt{2gh}$			
Q =	1.1289E-05	m^3/s	
Convert m^3/s to m^3/day - Q =	0.97537066	m^3/day	
Leakage Rate Per Hole (convert m^3/day to gallons/day) - Q =	257.665669	gallons/day	
Action Leakage Rate (ALR) - Alert Level 1 (AL1) =	leakage rate per hole x area of pond x no. of holes per acre		
AL1	**123.6795211**	**gallons/day**	

ALERT LEVEL 1 - Hole Size (dia) = 3.57 mm (10 mm^2) - Accidental Puncture			
Q = leakage rate through a membrane hole		m^3/s	
C_B = dimensionless coefficient	0.6		
a = hole area in the geomembrane	1.00E-05	m^2	1.00E-05
g = acceleration due to gravity	9.81	m/s^2	
h = liquid depth on top on the geomembrane	1.83	m	
A = pond area (wetted area)	0.48	acres	
No. of holes per acre	1		
$Q = C_B a\sqrt{2gh}$			
Q =	3.59523E-05	m^3/s	
Convert m^3/s to m^3/day - Q =	3.106275986	m^3/day	
Leakage Rate Per Hole (convert m^3/day to gallons/day) - Q =	820.5913024	gallons/day	
Action Leakage Rate (ALR) - Alert Level 1 (AL1) =	leakage rate per hole x area of pond x no. of holes per acre		
AL1	**393.8838252**	**gallons/day**	

3397

LCRS SIZING & ALERT LEVEL 2 - Hole Size (dia) = 11.3 mm (1 cm^2)			
Q = leakage rate through a membrane hole		m^3/s	
C_B = dimensionless coefficient	0.6		
a = hole area in the geomembrane	1.00E-04	m^2	1.00E-04
g = acceleration due to gravity	9.81	m/s^2	
h = liquid depth on top on the geomembrane	1.83	m	
A = pond area (wetted area)	0.48	acres	
No. of holes per acre	1		
$Q = C_B a\sqrt{2gh}$			
Q =	0.000360373	m^3/s	
Convert m^3/s to m^3/day - Q =	31.13626988	m^3/day	
Leakage Rate Per Hole (convert m^3/day to gallons/day) - Q =	8225.332317	gallons/day	
Action Leakage Rate (ALR) - Alert Level 2 (AL2) =	leakage rate per hole x area of pond x no. of holes per acre		
LCRS SIZING	**3948.159512**	**gallons/day**	

NOTE: Based on an ADEQ Interoffice Memorandum dated February 24, 2003, sizing of the collection system is recommended based on a hole size of 1 cm2 per acre. The AL2 in the permit should be set conservatively (lower than the calculated value for sizing the LCRS) using a factor of safety of 1.5.		
PERMIT AL2 = LCRS SIZING / 1.5 (FOS))	2632.106342	gallons/day