ATTACHMENT J – RECORDKEEPING AND REPORTING

TABLE OF CONTENTS

J-1 OPERATING RECORD

As a permitted facility that manages hazardous waste, Heritage maintains a facility operating record. Table J-1 summarizes the required elements of the operating record and the periods required for record retention. Table J-1 includes recordkeeping requirements for hazardous wastes received from off site and subsequently managed at the Heritage facility, in addition to hazardous wastes generated by Heritage.

The number and types of data required as part of the operating record are extensive. The Heritage facility manages operating record information in several different ways. Documentation required by the operating record is stored by the facility in hard copy files, microfilmed, stored electronically on a computer system, or stored on magnetic or similar data storage media. Records may also be maintained at a commercial records retention facility.

Paper manifests that accompany inbound loads are imaged (scanned to pdf) and stored electronically in the Heritage computer system. Similarly, paper LDR forms that accompany inbound loads and imaged are stored electronically in the Heritage computer system.

On a weekly basis, Heritage generates an inventory report from the container management portion of the electronic operating record. The inventory report is posted at the main facility gate for use by emergency response personnel in the event of an incident at the facility. An example inventory report is provided in Appendix J-U.

Example forms, including monitoring logs and standard operating procedures (SOPs), are provided as Appendices for reference.

Table J-1
Recordkeeping Requirements
Heritage Environmental Services, LLC
Coolidge, AZ

Operating Record for Treatment, Storage, and Disposal Facility (TSD)

Record	Retention Period	Regulatory Reference	Primary Storage Method at Facility	Permit Reference
Wastestream surveys and supplemental data including safety data sheets, generator-provided analytical results, if applicable	Until closure of the facility		MMS	ATTACHMENT B-3.1
Hazardous waste manifests for shipments received and accepted by the facility	3 years from date of delivery		MMS and hardcopy(2)	ATTACHMENT B-3.3
LDR notices for shipments received and accepted by the facility	3 years from date of delivery		MMS and hardcopy(2)	ATTACHMENT B-3.3
Notice to generators	3 years from the date the waste accepted for shipment	40 CFR 264.12(b)	MMS	
Copies of the notice(s) and the certification and demonstration, if applicable, required by the generator or the owner or operator for storage of restricted waste	3 years from date of delivery	40 CFR 268.7	MMS	
Results of general waste analysis including pre-approval waste analysis, waste analysis upon receipt, analysis of facility-generated wastes, if applicable	3 years from date of analysis	40 CFR 264.13, 268.7	MMS	ATTACHMENT B-3.2, 3.4, 3.5, 3.7
Results of waste analysis for ignitable, reactive, and incompatible wastes	3 years from date of analysis	40 CFR 264.17	MMS	ATTACHMENT B-3.4
Results of waste analysis for organic wastes	3 years from date of analysis	40 CFR 264.1063	MMS	ATTACHMENT B-3.4
Waste characterization of precipitation collected in sumps	3 years from date of analysis		Network Drive or Hardcopy	ATTACHMENT B-3.6
Description and the quantity of each hazardous waste received and the method and date(s) of its storage	Until closure of the facility	40 CFR 264, Appendix I	MMS	
The location of each hazardous waste within the facility, including cross references to manifest document numbers if accompanied by a manifest	Until closure of the facility		MMS	
Daily report on inventory per storage area	Updated daily		MMS	
Daily report on inventory maintained at facility main gate for emergency response personnel	Updated daily		Hardcopy	
Records documenting personnel training that include job titles for each position, written job descriptions, a description of the type and amount of introductory and continuing training required, records documenting that the training and experience required have been given to and have been completed by facility personnel	Until closure of the facility for current employees. 3 years from the date the employee last worked at the facility for former employees.	40 CFR 264.16	Network Drive or Hardcopy	ATTACHMENT F
Summary reports and details of all incidents that require implementation of the facility Contingency Plan	Until closure of the facility	40 CFR 264.56(j)	Network Drive or Hardcopy	ATTACHMENT E
Records and results of containers and containment inspections	3 years from date of inspection	40 CFR 264.15(d)	Hardcopy	ATTACHMENT D
Records and results of fencing and berms inspections	3 years from date of inspection		Hardcopy	ATTACHMENT D
Records and results of emergency response equipment inspections	3 years from date of inspection		Hardcopy	ATTACHMENTS D & E
Records and results of piping and valves inspections (Subpart BB)	3 years from date of inspection	40 CFR 264.1064	Hardcopy	ATTACHMENT H
Records and results of containers inspections (Subpart CC)	3 years from date of inspection	40 CFR 264.1089	Hardcopy	ATTACHMENT I
Closure cost estimate	Current cost estimate until closure of the facility	40 CFR 264.142	Network Drive or Hardcopy	ATTACHMENT G
Financial assurance documents, including surety bond, riders, standby trust agreement	Until closure of the facility	40 CFR 264.143(d)(3)	Network Drive or Hardcopy	APPENDIX G-C
A certification no less than annually that the permittee has a program in place to reduce the volume and toxicity of hazardous waste that the permittee generates to the degree determined economically practicable; and the proposed method of storage is the practicable method currently available to the permittee which minimizes the present and future threat to human health and the environment	Current certification until closure of facility		Network Drive or Hardcopy	
Prohibited Waste Identification	Until closure of the facility		Network Drive or Hardcopy	Attachment B
Contingency Plan	Until closure of the facility		Network Drive or Hardcopy	Attachment E
Receiving Unit Compatability Test - Liquids	Until closure of the facility		Network Drive or Hardcopy	Attachment B
Off Spec Procedure / Load Rejection Protocols	Until closure of the facility		Network Drive or Hardcopy	Attachment B

Notes:

(1) MMS refers to the facility computer system, commonly referred to as the Materials Management System or MMS. Network drive or hardcopy refers to electronic versions of documents (typically MS Word or Adobe pdf) or paper copies of documents.

(2) Hardcopy manifests and LDR notices are maintained in separate files for each generator location, organized by generator name.

(3) The retention period for all records required under 40 CFR Parts 262, 264, and 268 are extended automatically during the course of any unresolved enforcement action regarding the facility or as requested by the Director.

Table J-2
Recordkeeping Requirements for TSD as Generator

Operating Record for TSD as Generator

Record	Retention Period	Regulatory Reference
Uniform hazardous waste manifests	3 years from the date the waste was accepted by the initial transporter	40 CFR 262.40(a)
Copies of annual hazardous waste reports	3 years from the due date of the report	40 CFR 262.40(b)
Records of test results, waste analyses, or other determinations	3 years from the date the waste was last sent to off-site treatment, storage, or disposal	40 CFR 262.11
Copies of notices, certifications, restricted waste determinations whether by knowledge of the waste, testing, or supporting data and other documentation	3 years from the date the waste was last sent to off-site treatment, storage, or disposal	40 CFR 268.7(a)(5)
Notification of intent to export hazardous waste	3 years from the date the waste was accepted by the initial transporter	40 CFR 262.57(a)(1)
Copy of each EPA Acknowledgement of Consent to export hazardous waste	3 years from the date the waste was accepted by the initial transporter	40 CFR 262.57(a)(2)
Copy of each confirmation of delivery of hazardous waste from the consignee of an exported shipment of hazardous waste	3 years from the date the waste was accepted by the initial transporter	40 CFR 262.57(a)(3)
Copy of each annual report prepared for the exports of hazardous waste	3 years from the due date of the report	40 CFR 262.57(a)(4)

Note: The retention period for all records required under 40 CFR Parts 262, 264, and 268 are extended automatically during the course of any unresolved enforcement action regarding the facility or as requested by the Director.

Table J-3
Recordkeeping Requirements for Filter Cake for Metals Reclamation Operation

Operating Record Documents of Filter Cake for metals reclamation and the method and date(s) of its storage

Record	Retention Period	Regulatory Reference	Primary Storage Method at Facility[1]	Permit Reference
Description and the quantity of each shipment of Filter Cake for metals reclamation and the method and date(s) of its storage	Until closure of the facility	40 CFR 264, Appendix I	MMS and hardcopy	
The location of each container of Filter Cake designated for reclamation, quantity at each location, including cross references to manifest duocument numbers if accompanied by a manifest	Until closure of the facility		MMS and hardcopy	
Records documenting personnel training for operation of Filter Cake for metals reclamation	Until closure of the facility for current employees. 3 years from the date the employee last worked at the facility for former employees.	40 264.16	Network Drive or Hardcopy	ATTACHMENT F
Results of waste analysis including pre-acceptance analysis that includes fingerprint testing described in Attachment B - Solids (Filter Cake) Blending for Offsite Metals Reclamation including pH, appearance, noticeable odor, oxidizer screen, organic vapor screen, paint filter liquids, suflide screen, and cyanide as well as testing for total cyanide and metals listed on Table 1 of 40 CFR Part 261.24(b) prior to blending	3 years from date of analysis	40 CFR 264.13, 40 CFR Part 262.11	MMS and hardcopy	ATTACHMENT B
Summary reports and details of all incidents that require implementation of the facility Contingency Plan for F006 Blending Operation	3 years from date of analysis	40 CFR 264.17	Network Drive or Hardcopy	ATTACHMENT E
Records and results of inspections in container storage area where Filter Cake blending for metal reclamation occurs. This includes container inspection, storm water management, and container storage area inspections	3 years from date of inspection	40 CFR 264.15(d)	Network Drive or Hardcopy	ATTACHMENT D
Hazardous waste manifests for shipments for Filter Cake for metal reclamation received and accepted by the facility	3 years from date received		MMS and hardcopy	ATTACHMENT B-3.3
Uniform hazardous waste manifests of Filter Cake for metal reclamation shipped off site	3 years from date of waste was accepted by the initial transporter	40 CFR 262.40(a)	MMS and hardcopy	ATTACHMENT B-3.3
Copies of notices, certifications, restricted waste determinations whether by knowledge of the waste, testing, or supporting data and other documentaton of Filter Cake for metals reclamation	3 years from date the waste last sent to off-site treatment, storage, or disposal	40 CFR 268.7(a)(5)	MMS and hardcopy	ATTACHMENT B

Notes:

(1) MMS refers to the facility computer system, commonly referred to as the Materials Management System or MMS. Network drive or hardcopy refers to electronic versions of documents (typically MS Word or Adobe pdf) or paper copies of documents.

(2) The retention period of all records under 40 CFR Parts 262, 264, and 268 are extended automatically during the course of any unresolved enforcement action regarding the facility or as requested by the Director

APPENDIX J-A

EXAMPLE COMPLETED WASTESTREAM SURVEY FORM (SIGNED)

HERITAGE®

Wastestream Survey **Wastestream 224336 - 3**

GENERATOR INFORMATION

Name: CEMAK TRUCKING

Address (site): 11700 ALAMEDA ST LYNWOOD, CA 90262-4004 UNITED STATES

Address (mail): Same

US EPA ID: CAL000063038 **State ID:** CA - CAL000063038

Regulatory Status: CA STATE HAZ SMALL QUANTITY GENERATOR

Site Contact: ESTELA DEL RIO **Phone:** (626)812-7200

NAICS Code(s): 441110 **TAB:**

WASTESTREAM INFORMATION - GENERAL

Common Name: PAINT BOOTH FILTERS WITH HEAVY METALS

Generating Process: USED IN AUTO SHOP

EPA Source Code: G09 - OTHER PRODUCTION OR SERVICE-RELATED PROCESSES...

EPA Form Code: W406 - DRIED PAINT (CHIPS, FILTERS, AIR FILTERS...)

Physical State @ 70F: SOLID

Odor: MILD

Color: VARIES

Estimated Annual Volume:

Actual LBS Last 12 Months: 0 **Avg LBS/Shipment Last 12 Months:** 0

Shipped Container Size(s)/Type(s): NONE

Sample %: 0 **Can Repack?:** N **Low Flash Haz?:** N

High Haz?:

APPROVED FACILITIES

TSD#		
15540	HERITAGE ENVIRONMENTAL SERVICES 284 E STOREY RD P. O. BOX 97 COOLIDGE, AZ 85128-9205 UNITED STATES	AZD081705402 (520)723-4167

PROCESS RESTRICTIONS

INCINERATION (NON CWA)	Can be used
LANDFILL	Can be used
FUELS BLENDING (NON CWA)	Can be used
CWA SYSTEM	Can be used

MANAGEMENT SYSTEM ASSIGNMENTS

TSD#	Product Code - Desc	Put Away Area	Cont Type
15540	102 SUBT C LANDFILL CONS		

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Wastestream Survey **Wastestream 224336 - 3**

EPA WASTE CODES

D004, D005, D007, D008

EPA LDR HAZARDOUS CONSTITUENTS

UTS Parameter Description	Underlying Hazardous Constituent
NONE	N

STATE HAZARD CODES

CA	OTHER ORGANIC SOLIDS	352

SAFETY INFORMATION

HMIS Information	Description
HEALTH	-
FLAMMABLE	-
REACTIVE	-
PPE	-

* = Carcinogen
@ = Water Reactive

COMMENTS

Type	TSD	Text

TRANSPORTATION INFORMATION

Shipping Description: NA3077,HAZARDOUS WASTE, SOLID, N.O.S.,(ARSENIC, CHROMIUM),9,PGIII,RQ,(D004 @ 1#, D007 @ 10#),ERG#171

Label Codes: 9 - MISCELLANEOUS

Quoted Transporters: 11528 CLEANTECH ENVIRONMENTAL INC CAR000330019

SURVEY RESPONSES

PHYSICAL AND CHEMICAL PROPERTIES.

Question	Reply	Question	Reply
Flash Point (Fahrenheit)	>=200	Boiling Point	>100
BTU/LB, range, low value	<=1000	BTU/LB, range, high value	<=1000
PH, range, low value	5	PH, range, high value	9
Density/Specific Gravity	Not Applicable	Free Liquids / Fail Paint Filter Test?	No
Will waste dump out of drums?	Yes	Is the waste pumpable ?	No
Liquid waste clog 1/16 nozzle?	Not Applicable	Will heat improve the flow ?	No

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Wastestream Survey **Wastestream 224336 - 3**

PHYSICAL AND CHEMICAL PROPERTIES.

Question	Reply	Question	Reply
Debris?	Yes	Dust Hazard ?	No
Percent Solids	100	Percent Liquids	0
Percent Gas	0	Fluid Viscosity	Not Applicable
Layers	Single		

POTENTIAL HIGH HAZARDS

Question	Reply	Question	Reply
Air Reactive	No	Autoignitable	No
Cyanide	No	Causes Cyanosis	No
Explosive	No	Metal Fines	No
Metal Powders	No	Organic Peroxides	No
Oxidizer	No	Peroxide Forming	No
Pyrophoric	No	Self Heating	No
Shock Sensitive	No	Spontaneously Combustible	No
Sulfide	No	Temperature Control Required	No
Temperature Sensitive	No	Water Reactive	No
Not Applicable (High Hazards)	Yes		

OTHER PROPERTIES

Question	Reply	Question	Reply
Aerosol	No	Ammonia	No
Asbestos	No	Carcinogen	No
Chelating Agent	No	Compressed Gas	No
DEA Controlled Substance	No	Dioxins, Furans, or pre-cursors	No
Herbicide	No	Insecticide	No
Lab Pack	No	Medical	No
Pathogen/Infectious	No	Pesticide	No
Pharmaceutical/Alcohol	No	Polymerizable	No
Radioactive	No	Sanitary/Biological	No
Sharps	No	Not Applicable (Other Properties)	Yes

ADDITIONAL REGULATORY INFORMATION.

Question	Reply	Question	Reply
Used Oil per 40CFR279?	No	If Used Oil, is it mixed with Hazardous Waste?	Not Applicable
If Used Oil, Total Halogen concentration range	Not Applicable	PCBs? (40 CFR 761)	No
PCB concentration? (PPM)	Not Applicable	Subject to Subpart CC (40CFR 264/5.1080-1091, LQG>26gal, >500ppmw VOC)?	No
Is this an Oil Like Material subject to requirements of 40 CFR Part 112?	No	If SIC 28_ _, 2911, 3312, or 4953, what is the Total Annual Benzene (TAB) in Megagrams/year?	Not Applicable

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Wastestream Survey **Wastestream 224336 - 3**

ADDITIONAL REGULATORY INFORMATION.

Question	Reply	Question	Reply
If SIC code is 3312, Generated from Coke Oven Byproduct Recovery Operations?	Not Applicable	Subject to Benzene NESHAP controls (40CFR61.340-358) ?	No
Benzene Concentration 10 PPM or more?	No	Greater than 10% water?	No
Is this waste subject to NESHAP controls for transfer offsite or to another company for management? If yes, identify NESHAP 40 CFR Part/Subpart.	No	Do any regulatory exclusions/exemptions apply? If yes, provide reference information.	Not Applicable
Additional Comments / Special Waste Type	Not Applicable	Does this material require any special handling related to employee safety, storage conditions, spill cleanup, sampling, etc.?	No
Is this material overpacked or in a salvage container?	No	Is this material designated as a DOT Poison Inhalation Hazard?	No
Does the packaging have inner containers?	No	Does this material have potential to build pressure in the container?	No
Have the containers been stored outside?	No	Has this material been rejected from another facility?	No
Does this waste have any undisclosed hazards or prior incidents associated with it that could affect the way it should be handled?	No		

NON-HAZARDOUS WASTE DETERMINATION

Question	Reply	Question	Reply
Is this a listed waste?	Not Applicable	D001 Ignitability	Not Applicable
D002 Corrosivity	Not Applicable	D003 Reactivity	Not Applicable
D004 Arsenic (Metal) (Limit: 5.0 mg/l)	Not Applicable	D005 Barium (Metal) (Limit: 100.0 mg/l)	Not Applicable
D006 Cadmium (Metal) (Limit: 1.0 mg/l)	Not Applicable	D007 Chromium (Metal) (Limit: 5.0 mg/l)	Not Applicable
D008 Lead (Metal) (Limit: 5.0 mg/l)	Not Applicable	D009 Mercury (Metal) (Limit: 0.2 mg/l)	Not Applicable
D010 Selenium (Metal) (Limit: 1.0 mg/l)	Not Applicable	D011 Silver (Metal) (Limit: 5.0 mg/l)	Not Applicable
D018 Benzene (Vol) (Limit: 0.5 mg/l)	Not Applicable	D019 Carbon Tetrachloride (Vol) (Limit: 0.5 mg/l)	Not Applicable
D021 Chlorobenzene (Vol) (Limit: 100.0 mg/l)	Not Applicable	D022 Chloroform (Vol) (Limit: 6.0 mg/l)	Not Applicable
D028 1,2-Dichloroethane (Vol) (Limit: 0.5 mg/l)	Not Applicable	D029 1,1-Dichloroethylene (Vol) (Limit: 0.7 mg/l)	Not Applicable
D035 Methyl Ethyl Ketone (Vol) (Limit: 200.0 mg/l)	Not Applicable	D039 Tetrachloroethylene (Vol) (Limit: 0.7 mg/l)	Not Applicable
D040 Trichloroethylene (Vol) (Limit: 0.5 mg/l)	Not Applicable	D043 Vinyl Chloride (Vol) (Limit: 0.2 mg/l)	Not Applicable
D023 o-Cresol (S-Vol) (Limit: 200.0 mg/l)	Not Applicable	D024 m-Cresol (S-Vol) (Limit: 200.0 mg/l)	Not Applicable
D025 p-Cresol (S-Vol) (Limit: 200 mg/l)	Not Applicable	D026 Cresol (S-Vol) (Limit: 200.0 mg/l)	Not Applicable
D027 1,4-Dichlorobenzene (S-Vol) (Limit: 7.5 mg/l)	Not Applicable	D030 2,4-Dinitrotoluene (S-Vol) (Limit: 0.13 mg/l)	Not Applicable
D032 Hexachlorobenzene (S-Vol) (Limit: 0.13 mg/l)	Not Applicable	D033 Hexachlorobutadiene (S-Vol) (Limit: 0.5 mg/l)	Not Applicable
D034 Hexachloroethane (S-Vol) (Limit: 3.0 mg/l)	Not Applicable	D036 Nitrobenzene (S-Vol) (Limit: 2.0 mg/l)	Not Applicable
D037 Pentachlorophenol (S-Vol) (Limit: 100.0 mg/l)	Not Applicable	D038 Pyridine (S-Vol) (Limit: 5.0 mg/l)	Not Applicable

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Wastestream Survey **Wastestream 224336 - 3**

NON-HAZARDOUS WASTE DETERMINATION

Question	Reply	Question	Reply
D041 2,4,5-Trichlorophenol (S-Vol) (Limit: 400.0 mg/l)	Not Applicable	D042 2,4,6-Trichlorophenol (S-Vol) (Limit: 2.0 mg/l)	Not Applicable
D012 Endrin (Herb/Pest) (Limit: 0.02 mg/l)	Not Applicable	D013 Lindane (Herb/Pest) (Limit: 0.4 mg/l)	Not Applicable
D014 Methoxychlor (Herb/Pest) (Limit: 10.0 mg/l)	Not Applicable	D015 Toxaphene (Herb/Pest) (Limit: 0.5 mg/l)	Not Applicable
D016 2,4-D (Herb/Pest) (Limit: 10.0 mg/l)	Not Applicable	D017 2,4,5-TP (Silvex) (Herb/Pest) (Limit: 1.0 mg/l)	Not Applicable
D020 Chlordane (Herb/Pest) (Limit: 0.03 mg/l)	Not Applicable	D031 Heptachlor (Herb/Pest) (Limit: 0.008 mg/l)	Not Applicable

HTS

Question	Reply	Question	Reply
Miscellaneous Special Waste	Not Answered		

UNIVERSAL WASTE

Question	Reply	Question	Reply
Universal Waste (Federal) ?	No	Universal Waste Type (Federal)?	Not Applicable
Universal Waste (State) ?	No	Universal Waste Type (State)?	Not Applicable

ADDITIONAL GENERATOR/WASTESTREAM STATUS INFORMATION

Question	Reply	Question	Reply
Episodic Generation?	No	Originates from CERCLA Activity?	No
Originates in a Foreign Country?	No	Not Applicable (Additional Generator/Wastestream Status)	Yes

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Wastestream Survey **Wastestream 224336 - 3**

CHEMICAL CONSTITUENTS

Using specific chemical names, list all constituents present in the wastestream. Attach available analyses or Material Safety Data Sheets (MSDSs). **Total composition must equal or exceed 100%.**

TYPE - GENERATOR

Constituents	Range	Result	Units	CAS#	EHS	ID#	Date
PAINT BOOTH FILTERS	100 - 100		PERCENT				03-AUG-23
ARSENIC	7.78 - 7.78		PPM	7440-38-2			03-AUG-23
BARIUM	363.23 - 363.23		PPM	7440-39-3			03-AUG-23
CHROMIUM	9.48 - 9.48		PPM	7440-47-3			03-AUG-23
COBALT	377.37 - 377.37		PPM	7440-48-4			03-AUG-23
COPPER	323.16 - 323.16		PPM	7440-50-8			03-AUG-23
LEAD	10.5 - 10.5		PPM	7439-92-1			03-AUG-23
NICKEL	5.1 - 5.1		PPM	7440-02-0			03-AUG-23
ZINC	506.44 - 506.44		PPM	7440-66-6			03-AUG-23

EHS - Extremely Hazardous Substance
CAS - Chemical Abstracts Service

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Wastestream Survey **Wastestream 224336 - 3**

CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator, that all information submitted herein and attached documentation contains true, accurate and complete descriptions of this material. Any sample submitted for analysis or attached laboratory data is representative of the material being offered for approval. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I will notify Heritage Environmental Services, LLC, Heritage Thermal Services, Inc., Rineco Chemical Industries, LLC, or Heritage Thermal of Texas, LLC, of any changes in generator status, any information on this form, or any information on the attachments. This certification and signature apply to this form, and to all attachments provided, and to the land disposal restriction notification (LDR) generated using this information. For Lab Packs only: To the best of my knowledge, all labels on the inner and outer containers, and all information recorded on the packing inventory sheet for each Lab Pack, correctly identifies the contained chemicals where testing has been necessary to characterize material in the lab pack. I have used test methods equivalent to those specified in the Permittee's current operating permit Lab Pack Procedure.

Name (Print) _____

Signature (Sign) ESTELA DEL RIO Date 08/03/2023

_____
Company

_____
Title

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APPENDIX J-B

EXAMPLE PRE-APPROVAL SAMPLE ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 28, 2023

Christian Schafer
Heritage Environmental Services
6510 Telecom Dr
Indianapolis, IN 46278

RE: Project: Dekalb Metal
Pace Project No.: 50339722

Dear Christian Schafer:

Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Regina Bedel
regina.bedel@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Shannon Dippel, Heritage Environmental Services
STEVE GALLARDO, HERITAGE ENVIRONMENTAL SERVICES LLC.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Dekalb Metal
Pace Project No.: 50339722

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Dekalb Metal
Pace Project No.: 50339722

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50339722001	F006 Filtercake (2164-18)	Solid	03/13/23 11:00	03/15/23 11:05

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Dekalb Metal
Pace Project No.: 50339722

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50339722001	F006 Filtercake (2164-18)	EPA 6010	JPK	1

PASI-I = Pace Analytical Services - Indianapolis

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Dekalb Metal
Pace Project No.: 50339722

Sample: F006 Filtercake (2164-18) **Lab ID: 50339722001** Collected: 03/13/23 11:00 Received: 03/15/23 11:05 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050 Pace Analytical Services - Indianapolis							
Nickel	**3770**	mg/kg	0.91	1	03/21/23 16:34	03/28/23 03:10	7440-02-0	

REPORT OF LABORATORY ANALYSIS

Date: 03/28/2023 02:02 PM

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Dekalb Metal
Pace Project No.: 50339722

QC Batch: 723902
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50339722001

METHOD BLANK: 3321944 Matrix: Solid
Associated Lab Samples: 50339722001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nickel	mg/kg	ND	1.0	03/28/23 02:05	

LABORATORY CONTROL SAMPLE: 3321945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nickel	mg/kg	50	52.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3321946 3321947

Parameter	Units	50339102001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	mg/kg	71.4	64.4	62.7	113	103	64	51	75-125	9	20	M3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Date: 03/28/2023 02:02 PM

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Dekalb Metal
Pace Project No.: 50339722

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

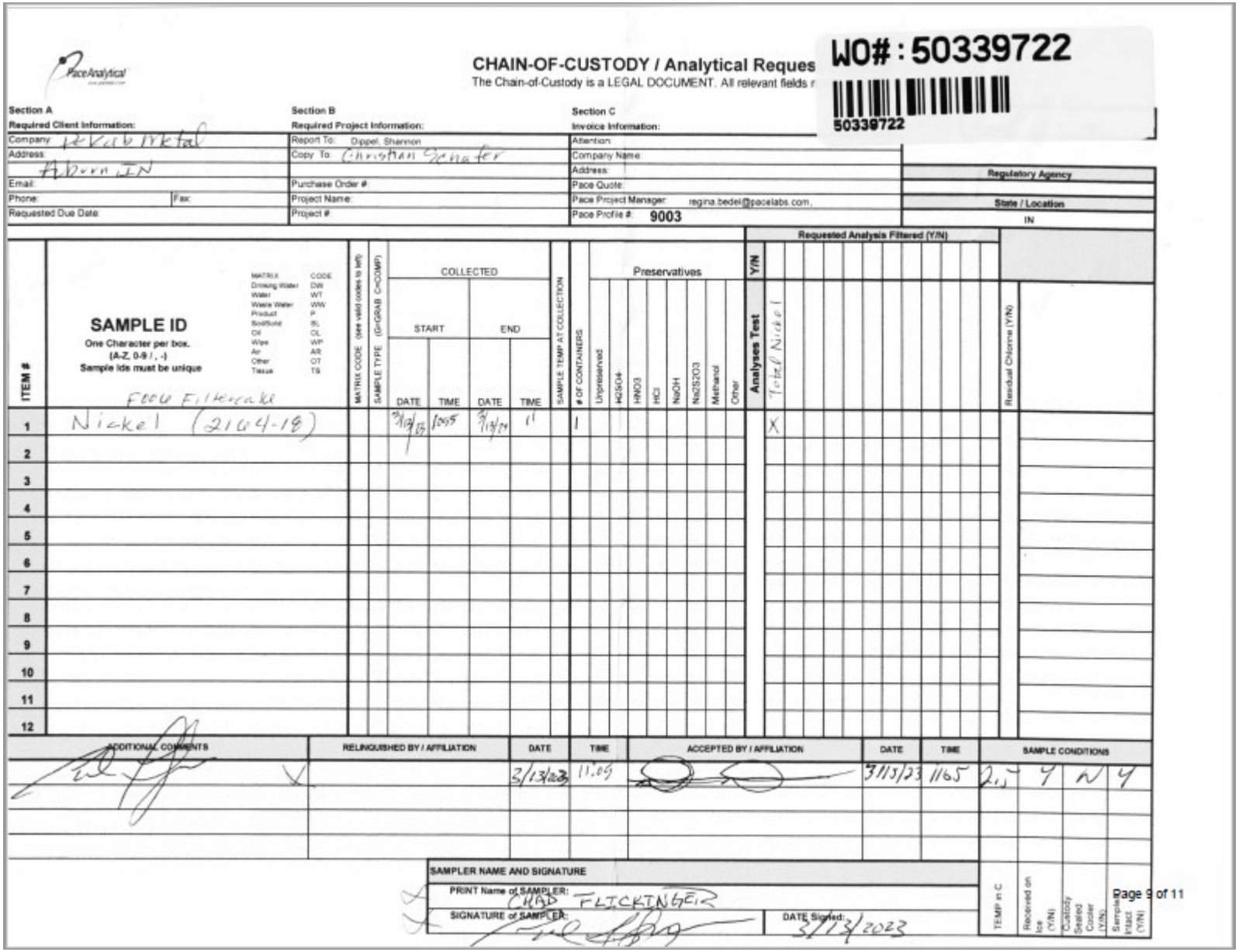
REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Dekalb Metal
Pace Project No.: 50339722

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50339722001	F006 Filtercake (2164-18)	EPA 3050	723902	EPA 6010	724929



PaceAnalytical

CHAIN-OF-CUSTODY / Analytical Reques

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields r

WO# : 50339722

50339722

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Revib Metal	Report To: Dippel, Shannon	Attention:	
Address: Avon, IN	Copy To: Christian Schafer	Company Name:	Regulatory Agency
Email:	Purchase Order #:	Address:	
Phone: Fax:	Project Name:	Pace Quote:	State / Location
Requested Due Date:	Project #:	Pace Project Manager: regina.bedel@pacelabs.com	IN
		Pace Profile #: 9003	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total Nickel	Residual Chlorine (Y/N)
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																			
	Field Filtered																			
1	Nickel (2164-18)			3/9/23	1005	3/13/23	11		1									X		
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/13/23	11:09		3/13/23	1165	2.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: CHAD FLICKINGER

SIGNATURE of SAMPLER: DATE Signed: 3/13/2023

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Page 9 of 11

F-MN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DD 3/15/23 1523

1. **Courier:** ☐ FED EX ☐ UPS ☑ CLIENT ☐ PACE ☐ USPS ☐ OTHER
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 A B C D E F
4. **Cooler Temperature(s):** 2.5/2.5 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A ✓
Rush TAT Requested (4 days or less):		✓	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			
Custody Signatures Present?	✓		Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Containers Intact?:	✓		Headspace Wisconsin Sulfide?			✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	DD 3/15/23 ✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			
			Trip Blank Custody Seals?:			✓

COMMENTS: GW = glass jar w/ black lid & No TB; date/time on container (DD 3/15/23)

APPENDIX J-C

EXAMPLE WASTESTREAM SAMPLING AND ANALYSIS DATA

Waste Code 125156-24 **Statistical** Y **Data Start** 03-MAR-22

T001330
25-AUG-22
PASS

Stat	Y
Start	03MAR22
Seq	546

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
CHLORINE, TOTAL	5420	PASS				PASS		PASS
	NOT HIGH OR LOW, NO CALC							

Sample ID	Result	Units	Limit	Use Value
T001085	8843.97	PPM	124	8843.97
T001107	6903.5	PPM	124	6903.5
T001330	5080.29	PPM	124	5080.29
T001132	4332.9	PPM	124	4332.9
T001153	1969.07	PPM	124	1969.07

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
LOW VOLATILE METALS (AS,BE,CR)	15.7	PASS	.821	22.301	.203	PASS	.1135	PASS

Sample ID	Result	Units	Limit	Use Value
T001330	26.36	PPM	4.87	28.468
T001132	20.41	PPM	4.87	23.9414
T001153	22.76	PPM	4.87	23.12
T001107	5.66	PPM	4.87	8.6972
T001085	3.17	PPM	4.87	6.167

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
MERCURY	0	PASS				PASS		PASS
	NOT HIGH OR LOW, NO CALC							

Sample ID	Result	Units	Limit	Use Value
T001132	0	PPB	13	7.28
T001107	0	PPB	13	6.49
T001153	0	PPB	13	5.87
T001330	0	PPB	13	2.14
T001085	0	PPB	13	.0757

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
RESIDUE, PERCENT ASH	4.65	PASS	.821	7.948	.2869	PASS	.4829	PASS

Sample ID	Result	Units	Limit	Use Value
T001132	8.35	PERCENT	.6	8.35
T001085	6.07	PERCENT	.6	6.07
T001107	4.58	PERCENT	.6	4.58
T001153	4.24	PERCENT	.6	4.24
T001330	0	PERCENT	.6	.402

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
SEMI-VOLATILE METALS (CD,PB)	0	PASS				PASS		PASS
	NOT HIGH OR LOW, NO CALC							

Sample ID	Result	Units	Limit	Use Value
T001085	0	PPM	3.74	1.863
T001153	0	PPM	3.74	1.276
T001330	0	PPM	3.74	.7244
T001107	0	PPM	3.74	.506
T001132	0	PPM	3.74	.2341

APPENDIX J-D

EXAMPLE WASTE CHARACTERIZATION INFORMATION

GRAINGER
FOR THE ONES WHO GET IT DONE

Close this window SDS

Common Name: METHYL ETHYL KETONE
Manufacturer: NEXEO SOLUTIONS
SDS Revision Date: 3/10/2015
SDS Format: GHS-US

Item Number(s): 152F46, 19NZ67
Manufacturer Model Number(s):

SDS Table of Contents

Click the desired link below to jump directly to that section in the SDS.

NEXEO(R*) SOLUTIONS

SAFETY DATA SHEET

METHYL ETHYL KETONE

VERSION: 1.1

REVISION DATE: 03/10/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

top

PRODUCT NAME: METHYL ETHYL KETONE

PRODUCT USE DESCRIPTION: SOLVENT

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY: NEXEO SOLUTIONS LLC

ADDRESS:
3 WATERWAY SQUARE PLACE SUITE 1000
WOODLANDS, TX. 77380

UNITED STATES OF AMERICA

EMERGENCY TELEPHONE NUMBER:
HEALTH NORTH AMERICA: 1-855-NEXEO4U (1-855-639-3648)
HEALTH INTERNATIONAL: 1-855-NEXEO4U (1-855-639-3648)
TRANSPORT NORTH AMERICA: CHEMTREC 800.424.9300

ADDITIONAL INFORMATION:

RESPONSIBLE PARTY: PRODUCT SAFETY GROUP

E-MAIL: MSDS@NEXEOSOLUTIONS.COM

SDS REQUESTS: 1-855-429-2661

SDS REQUESTS FAX: 1-281-500-2370

WEBSITE: WWW.NEXEOSOLUTIONS.COM

SECTION 2. HAZARDS IDENTIFICATION

top

GHS CLASSIFICATION:

FLAMMABLE LIQUIDS: CATEGORY 2

EYE IRRITATION: CATEGORY 2A

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:
CATEGORY 3 (CENTRAL NERVOUS SYSTEM)

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS:
FLAME
EXCLAMATION MARK

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR.
H319: CAUSES SERIOUS EYE IRRITATION.
H336: MAY CAUSE DROWSINESS OR DIZZINESS.

PRECAUTIONARY STATEMENTS:

PREVENTION:

P210:
KEEP AWAY FROM HEAT, HOT SURFACES, SPARKS, OPEN FLAMES AND OTHER IGNITION SOURCES. NO SMOKING.

P233: KEEP CONTAINER TIGHTLY CLOSED.

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY.

P264: WASH SKIN THOROUGHLY AFTER HANDLING.

P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P280: WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

POTENTIAL HEALTH EFFECTS:

CARCINOGENICITY:

IARC:
NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

ACGIH:
NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.

OSHA:
NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:
NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

EMERGENCY OVERVIEW:

APPEARANCE: LIQUID

COLOUR: COLOURLESS

ODOUR: CHARACTERISTIC, PLEASANT, ACETONE-LIKE

HAZARD SUMMARY: NO INFORMATION AVAILABLE.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

top

SUBSTANCE / MIXTURE: SUBSTANCE

HAZARDOUS COMPONENTS:

CAS-NO.	CHEMICAL NAME	CONCENTRATION (%)
78-93-3	METHYL ETHYL KETONE	90 - 100

SECTION 4. FIRST AID MEASURES

top

GENERAL ADVICE:
MOVE OUT OF DANGEROUS AREA.
SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.
DO NOT LEAVE THE VICTIM UNATTENDED.

IF INHALED:
CONSULT A PHYSICIAN AFTER SIGNIFICANT EXPOSURE.
IF UNCONSCIOUS PLACE IN RECOVERY POSITION AND SEEK MEDICAL ADVICE.

IN CASE OF SKIN CONTACT:
IF ON SKIN, RINSE WELL WITH WATER.
IF ON CLOTHES, REMOVE CLOTHES.

IN CASE OF EYE CONTACT:
IMMEDIATELY FLUSH EYE(S) WITH PLENTY OF WATER.
KEEP EYE WIDE OPEN WHILE RINSING.
IF EYE IRRITATION PERSISTS, CONSULT A SPECIALIST.

IF SWALLOWED:
KEEP RESPIRATORY TRACT CLEAR.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PER-SON.
IF SYMPTOMS PERSIST, CALL A PHYSICIAN.

SECTION 5. FIREFIGHTING MEASURES

top

SUITABLE EXTINGUISHING MEDIA:
ALCOHOL-RESISTANT FOAM
CARBON DIOXIDE (CO2)
DRY CHEMICAL

UNSUITABLE EXTINGUISHING MEDIA: HIGH VOLUME WATER JET

SPECIFIC HAZARDS DURING FIREFIGHTING:
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES.

HAZARDOUS COMBUSTION PRODUCTS:
NO HAZARDOUS COMBUSTION PRODUCTS ARE KNOWN

SPECIFIC EXTINGUISHING METHODS:
USE A WATER SPRAY TO COOL FULLY CLOSED CONTAINERS.

FURTHER INFORMATION:
COLLECT CONTAMINATED FIRE EXTINGUISHING WATER SEPARATELY. THIS MUST NOT BE DISCHARGED INTO DRAINS. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS. FOR SAFETY REASONS IN CASE OF FIRE, CANS SHOULD BE STORED SEPARATELY IN CLOSED CONTAINMENTS.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:
WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.

NFPA FLAMMABLE AND COMBUSTIBLE LIQUIDS CLASSIFICATION:
FLAMMABLE LIQUID CLASS IB

SECTION 6. ACCIDENTAL RELEASE MEASURES

top

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

USE PERSONAL PROTECTIVE EQUIPMENT.

ENSURE ADEQUATE VENTILATION.

REMOVE ALL SOURCES OF IGNITION.

EVACUATE PERSONNEL TO SAFE AREAS.

BEWARE OF VAPOURS ACCUMULATING TO FORM EXPLOSIVE CONCENTRATIONS. VAPOURS CAN ACCUMULATE IN LOW AREAS.

ENVIRONMENTAL PRECAUTIONS:

PREVENT PRODUCT FROM ENTERING DRAINS.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

IF THE PRODUCT CONTAMINATES RIVERS AND LAKES OR DRAINS INFORM RESPECTIVE AUTHORITIES.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
CONTAIN SPILLAGE, AND THEN COLLECT WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE SECTION 13).

SECTION 7. HANDLING AND STORAGE

top

ADVICE ON SAFE HANDLING:
AVOID FORMATION OF AEROSOL.
DO NOT BREATHE VAPOURS/DUST.
AVOID EXPOSURE - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
AVOID CONTACT WITH SKIN AND EYES.
FOR PERSONAL PROTECTION SEE SECTION 8.
SMOKING, EATING AND DRINKING SHOULD BE PROHIBITED IN THE APPLICATION AREA.
TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.
PROVIDE SUFFICIENT AIR EXCHANGE AND/OR EXHAUST IN WORK ROOMS.
CONTAINER MAY BE OPENED ONLY UNDER EXHAUST VENTILATION HOOD.
OPEN DRUM CAREFULLY AS CONTENT MAY BE UNDER PRESSURE.
DISPOSE OF RINSE WATER IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.

CONDITIONS FOR SAFE STORAGE:

NO SMOKING.

KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

CONTAINERS WHICH ARE OPENED MUST BE CAREFULLY RE-SEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE.

OBSERVE LABEL PRECAUTIONS.

ELECTRICAL INSTALLATIONS / WORKING MATERIALS MUST COMP-LY WITH THE TECHNOLOGICAL SAFETY STANDARDS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

top

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

CAS-NO.	COMPONENTS	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS / PERMISSIBLE CONCENTRATION	BASIS
78-93-3	METHYL ETHYL KETONE	TWA	200 PPM	ACGIH
		STEL	300 PPM	ACGIH
		TWA	200 PPM 590 MG/M3	NIOSH REL
		ST	300 PPM 885 MG/M3	NIOSH REL
		TWA	200 PPM 590 MG/M3	OSHA Z-1
		TWA	200 PPM 590 MG/M3	OSHA P0
		STEL	300 PPM 885 MG/M3	OSHA P0

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:

COMPONENTS	CAS-NO.	CONTROL PARAMETERS	BIOLOGICAL SPECIMEN	SAMPLING TIME	PERMISSIBLE CONCENT-RATION	BASIS
METHYL ETHYL KETONE	78-93-3	MEK	IN URINE	END OF SHIFT (AS SOON AS POSSIBLE	2 MG/L	ACGIH BEI

AFTER
EXPOSURE
CEASES)

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:
NO PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT NORMALLY REQUIRED.
IN THE CASE OF VAPOUR FORMATION USE A RESPIRATOR WITH AN APPROVED FILTER.

HAND PROTECTION:

REMARKS:
THE SUITABILITY FOR A SPECIFIC WORKPLACE SHOULD BE DISCUSSED WITH THE
PRODUCERS OF THE PROTECTIVE GLOVES.

EYE PROTECTION:
EYE WASH BOTTLE WITH PURE WATER
TIGHTLY FITTING SAFETY GOGGLES
WEAR FACE-SHIELD AND PROTECTIVE SUIT FOR ABNORMAL PROCESSING PROBLEMS.

SKIN AND BODY PROTECTION:

IMPERVIOUS CLOTHING

CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF THE
DANGEROUS SUBSTANCE AT THE WORK PLACE.

HYGIENE MEASURES:
WHEN USING DO NOT EAT OR DRINK.
WHEN USING DO NOT SMOKE.
WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

top

APPEARANCE: LIQUID

COLOUR: COLOURLESS

ODOUR: CHARACTERISTIC, PLEASANT, ACETONE-LIKE

ODOUR THRESHOLD: NO DATA AVAILABLE

PH: NO DATA AVAILABLE

FREEZING POINT (FREEZING POINT): -87 DEG. C (-125 DEG. F)

BOILING POINT (BOILING POINT/BOILING RANGE): 79.59 DEG. C (175.26 DEG. F)

FLASH POINT: -7 DEG. C (19 DEG. F)

EVAPORATION RATE:
3.6 N-BUTYL ACETATE
2.7 ETHYL ETHER

FLAMMABILITY (SOLID, GAS): NO DATA AVAILABLE

BURNING RATE: NO DATA AVAILABLE

UPPER EXPLOSION LIMIT: 11.5%(V)
LOWER EXPLOSION LIMIT: 1.4%(V)

VAPOUR PRESSURE:
91 MMHG @ 25 DEG. C (77 DEG. F)
70 MMHG @ 20 DEG. C (68 DEG. F)

RELATIVE VAPOUR DENSITY: 2.41 @ 20 DEG. C (68 DEG. F) AIR=1

RELATIVE DENSITY: 0.806 @ 20 DEG. C (68 DEG. F)

DENSITY:
0.806 G/CM3 @ 20 DEG. C (68 DEG. F)
6.72 LB/GAL @ 20 DEG. C (68 DEG. F)

BULK DENSITY: NO DATA AVAILABLE

SOLUBILITY(IES):
WATER SOLUBILITY: PARTLY MISCIBLE

SOLUBILITY IN OTHER SOLVENTS:

SOLVENT: ACETONE
DESCRIPTION: SOLUBLE

SOLVENT: ALCOHOL
DESCRIPTION: SOLUBLE

SOLVENT: BENZENE
DESCRIPTION: SOLUBLE

SOLVENT: ETHER
DESCRIPTION: SOLUBLE

PARTITION COEFFICIENT N-OCTANOL/WATER:
LOG POW: 0.29

AUTO-IGNITION TEMPERATURE: 404 DEG. C

THERMAL DECOMPOSITION: NO DATA AVAILABLE

VISCOSITY:
VISCOSITY, DYNAMIC: 0.41 MPA.S
VISCOSITY, KINEMATIC: 0.51 MM2/S

SECTION 10. STABILITY AND REACTIVITY

top

REACTIVITY:
NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:
VAPOURS MAY FORM EXPLOSIVE MIXTURE WITH AIR.

CONDITIONS TO AVOID: HEAT, FLAMES AND SPARKS.

INCOMPATIBLE MATERIALS:

AVOID CONTACT WITH:
AMINES
AMMONIA
CHLOROFORM
COPPER
COPPER ALLOYS
HALOGENATED COMPOUNDS
NITRIC ACID
STRONG OXIDIZING AGENTS
HYDROGEN PEROXIDE
ISOCYANATES
STRONG ALKALIS

STRONG BASES
STRONG MINERAL ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON DIOXIDE AND CARBON MONOXIDE TOXIC FUMES

SECTION 11. TOXICOLOGICAL INFORMATION

top

ACUTE TOXICITY:

COMPONENTS:

78-93-3:

ACUTE ORAL TOXICITY:
LD50 (RAT): 2,737 MG/KG

ACUTE INHALATION TOXICITY:
LC50 (MOUSE): 320 MG/L
EXPOSURE TIME: 4 H

ACUTE DERMAL TOXICITY:
LD50 (RABBIT): 6,480 MG/KG

SKIN CORROSION/IRRITATION:

PRODUCT:
REMARKS: MODERATE SKIN IRRITATION

COMPONENTS:
78-93-3:
SPECIES: RABBIT
EXPOSURE TIME: 24 H
RESULT: MILD SKIN IRRITATION

SERIOUS EYE DAMAGE/EYE IRRITATION:

PRODUCT:
REMARKS: SEVERE EYE IRRITATION

COMPONENTS:
78-93-3:
SPECIES: RABBIT
RESULT: IRRITATING TO EYES.
EXPOSURE TIME: 24 H

RESPIRATORY OR SKIN SENSITIZATION:

COMPONENTS:
78-93-3:
TEST TYPE: BUEHLER TEST
SPECIES: GUINEA PIG
METHOD: OECD TEST GUIDELINE 406
RESULT: DID NOT CAUSE SENSITIZATION ON LABORATORY ANIMALS.

GERM CELL MUTAGENICITY:

COMPONENTS:
78-93-3:

GENOTOXICITY IN VITRO:
TEST TYPE: AMES TEST
METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC ACTIVATION
METHOD: OECD TEST GUIDELINE 471
RESULT: NEGATIVE

TEST TYPE: MAMMALIAN CELL GENE MUTATION ASSAY
METABOLIC ACTIVATION: WITH AND WITHOUT METABOLIC ACTIVATION
METHOD: OECD TEST GUIDELINE 476
RESULT: NEGATIVE

TEST TYPE: CHROMOSOME ABERRATION TEST IN VITRO
METHOD: OECD TEST GUIDELINE 473
RESULT: NEGATIVE

GENOTOXICITY IN VIVO:
TEST TYPE: IN VIVO MICRONUCLEUS TEST
TEST SPECIES: MOUSE (MALE AND FEMALE)
DOSE: 1.96 ML/KG
METHOD: OECD TEST GUIDELINE 474
RESULT: NEGATIVE

GERM CELL MUTAGENICITY ASSESSMENT:
TESTS ON BACTERIAL OR MAMMALIAN CELL CULTURES DID NOT SHOW MUTAGENIC EFFECTS.

CARCINOGENICITY:

COMPONENTS:
78-93-3:
REMARKS: THIS INFORMATION IS NOT AVAILABLE.

CARCINOGENICITY - ASSESSMENT: NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.

REPRODUCTIVE TOXICITY:

COMPONENTS:

78-93-3:

EFFECTS ON FOETAL DEVELOPMENT:
SPECIES: RAT, FEMALE
APPLICATION ROUTE: INHALATION
DOSE: 400, 1000, 3000 PPM
DURATION OF SINGLE TREATMENT: 18 D
FREQUENCY OF TREATMENT: 7 DAYS/WEEK
GENERAL TOXICITY MATERNAL: NOAEC: 1,002 PPM
TERATOGENICITY: NOAEC: 1,002 PPM
METHOD: OECD TEST GUIDELINE 414
GLP: NO

REPRODUCTIVE TOXICITY - ASSESSMENT:
FERTILITY CLASSIFICATION NOT POSSIBLE FROM CURRENT DATA.
DID NOT SHOW TERATOGENIC EFFECTS IN ANIMAL EXPERIMENTS.

STOT - SINGLE EXPOSURE:

PRODUCT:

EXPOSURE ROUTES	TARGET ORGANS	ASSESSMENT	REMARKS
	CENTRAL NERVOUS SYSTEM		

COMPONENTS:

78-93-3:

EXPOSURE ROUTES	TARGET ORGANS	ASSESSMENT	REMARKS
INHALATION	CENTRAL NERVOUS SYSTEM	MAY CAUSE DROWSINESS OR DIZZINESS., THE SUBSTANCE OR MIXTURE IS CLASSIFIED AS	

SPECIFIC TARGET ORGAN
TOXICANT, SINGLE
EXPOSURE, CATEGORY 3
WITH NARCOTIC EFFECTS.

STOT - REPEATED EXPOSURE:
PRODUCT: NO DATA AVAILABLE

COMPONENTS:
78-93-3: NO DATA AVAILABLE

ASPIRATION TOXICITY:
PRODUCT: MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS.

FURTHER INFORMATION:

PRODUCT:

REMARKS:
SYMPTOMS OF OVEREXPOSURE MAY BE HEADACHE, DIZZINESS, TIREDNESS, NAUSEA AND VOMITING., CONCENTRATIONS SUBSTANTIALLY ABOVE THE TLV VALUE MAY CAUSE NARCOTIC EFFECTS., SOLVENTS MAY DEGREASE THE SKIN.

SECTION 12. ECOLOGICAL INFORMATION

top

ECOTOXICITY:

COMPONENTS:

78-93-3:

TOXICITY TO FISH:
LC50 (PIMEPHALES PROMELAS (FATHEAD MINNOW)): >100 MG/L
EXPOSURE TIME: 96 H

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:
EC50 (DAPHNIA MAGNA (WATER FLEA)): >100 MG/L
EXPOSURE TIME: 48 H
TEST TYPE: IMMOBILIZATION

TOXICITY TO ALGAE:
EC50 (PSEUDOKIRCHNERIELLA SUBCAPITATA (GREEN ALGAE)): >100 MG/L
EXPOSURE TIME: 96 H

PERSISTENCE AND DEGRADABILITY:

COMPONENTS:

78-93-3:

BIODEGRADABILITY:
CONCENTRATION: 2 MG/L
RESULT: READILY BIODEGRADABLE.
BIODEGRADATION: 98%
EXPOSURE TIME: 28 D
TEST SUBSTANCE: METHYLETHYL KETONE
GLP: YES
REMARKS: READILY BIODEGRADABLE

BIOACCUMULATIVE POTENTIAL:

COMPONENTS:

78-93-3:

PARTITION COEFFICIENT N-OCTANOL/WATER:
LOG POW: 2.49

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

PRODUCT:

REGULATION:
40 CFR PROTECTION OF ENVIRONMENT; PART 82 PROTECTION OF STRATOSPHERIC OZONE - CAA SECTION 602 CLASS I SUB-STANCES

REMARKS:
THIS PRODUCT NEITHER CONTAINS, NOR WAS MANUFACTURED WITH A CLASS I OR CLASS II ODS AS DEFINED BY THE U.S. CLEAN AIR ACT SECTION 602 (40 CFR 82, SUBPT. A, APP.A + B).

ADDITIONAL ECOLOGICAL INFORMATION: NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

top

DISPOSAL METHODS:

WASTE FROM RESIDUES:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

FOR ASSISTANCE WITH YOUR WASTE MANAGEMENT NEEDS - INCLUDING DISPOSAL, RECYCLING AND WASTE STREAM REDUCTION, CONTACT NEXEO'S ENVIRONMENTAL SERVICES GROUP AT 800-637-7922.

CONTAMINATED PACKAGING:
EMPTY REMAINING CONTENTS.
DISPOSE OF AS UNUSED PRODUCT.
DO NOT RE-USE EMPTY CONTAINERS.
DO NOT BURN, OR USE A CUTTING TORCH ON, THE EMPTY DRUM.

SECTION 14. TRANSPORT INFORMATION

top

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION):
UN1193, METHYL ETHYL KETONE, 3, II, FLASH POINT: -7 DEG. C(19 DEG. F)

IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS):
UN1193, METHYL ETHYL KETONE, 3, II

DOT (DEPARTMENT OF TRANSPORTATION): UN1193, METHYL ETHYL KETONE, 3, II

SECTION 15. REGULATORY INFORMATION

top

OSHA HAZARDS:
FLAMMABLE LIQUID, MODERATE SKIN IRRITANT, MODERATE EYE IRRITANT, CARCINOGEN

WHMIS CLASSIFICATION:
B2: FLAMMABLE LIQUID
D2B: TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT:

CERCLA REPORTABLE QUANTITY:

COMPONENTS	CAS-NO.	COMPONENT RQ (LBS)	CALCULATED PRODUCT RQ (LBS)
METHYL ETHYL KETONE	78-93-3	5000	5000

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:
THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 304 EHS RQ.

SARA 311/312 HAZARDS:
FIRE HAZARD
ACUTE HEALTH HAZARD
CHRONIC HEALTH HAZARD

SARA 302:

SARA 302:
NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313:

SARA 313:
THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

CLEAN AIR ACT:

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS (HAP), AS DEFINED BY THE U.S. CLEAN AIR ACT SECTION 12 (40 CFR 61).

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS LISTED UNDER THE U.S. CLEAN AIR ACT SECTION 112(R) FOR ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130, SUBPART F).

THE FOLLOWING CHEMICAL(S) ARE LISTED UNDER THE U.S. CLEAN AIR ACT SECTION 111 SOCMI INTERMEDIATE OR FINAL VOC'S (40 CFR 60.489):

78-93-3 METHYL ETHYL KETONE 100%

CLEAN WATER ACT:

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS SUBSTANCES LISTED UNDER THE U.S. CLEANWATER ACT, SECTION 311, TABLE 116.4A.

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS CHEMICALS LISTED UNDER THE U.S. CLEAN-WATER ACT, SECTION 311, TABLE 117.3.

THIS PRODUCT DOES NOT CONTAIN ANY TOXIC POLLUTANTS LISTED UNDER THE U.S. CLEAN WATER ACT SECTION 307

US STATE REGULATIONS:

MASSACHUSETTS RIGHT TO KNOW:

78-93-3 METHYL ETHYL KETONE 90 - 100%

PENNSYLVANIA RIGHT TO KNOW:

78-93-3 METHYL ETHYL KETONE 90 - 100%

NEW JERSEY RIGHT TO KNOW:

78-93-3 METHYL ETHYL KETONE 90 - 100%

CALIFORNIA PROP 65:
THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO

CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

SWITZERLAND. NEW NOTIFIED SUBSTANCES AND DECLARED PREPARATIONS:
Y (POSITIVE LISTING) (THE FORMULATION CONTAINS SUBSTANCES LISTED ON THE SWISS INVENTORY)

UNITED STATES TSCA INVENTORY: Y (POSITIVE LISTING) (ON TSCA INVENTORY)

CANADIAN DOMESTIC SUBSTANCES LIST (DSL):
Y (POSITIVE LISTING) (ALL COMPONENTS OF THIS PRODUCT ARE ON THE CANADIAN DSL.)

AUSTRALIA INVENTORY OF CHEMICAL SUBSTANCES (AICS):
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

NEW ZEALAND. INVENTORY OF CHEMICAL SUBSTANCES:
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

JAPAN. ENCS - EXISTING AND NEW CHEMICAL SUBSTANCES INVENTORY:
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

JAPAN. ISHL - INVENTORY OF CHEMICAL SUBSTANCES (METI):
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

KOREA. KOREAN EXISTING CHEMICALS INVENTORY (KECI):
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS):
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

CHINA. INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA (IECSC):
Y (POSITIVE LISTING) (ON THE INVENTORY, OR IN COMPLIANCE WITH THE INVENTORY)

SECTION 16. OTHER INFORMATION

top

FURTHER INFORMATION:

NFPA:
HEALTH 2
FLAMMABILITY 3
INSTABILITY 0
SPECIAL HAZARD.

HMIS III:
HEALTH 2*
FLAMMABILITY 3
PHYSICAL HAZARD 0

0 = NOT SIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME
* = CHRONIC

THE INFORMATION ACCUMULATED IS BASED ON THE DATA OF WHICH WE ARE AWARE AND

IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. SINCE THIS INFORMATION MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR AND SINCE DATA MADE BECOME AVAILABLE SUBSEQUENTLY TO THE DATE HEREOF, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES. THIS MSDS HAS BEEN PREPARED BY NEXEO(TM) SOLUTIONS EHS PRODUCT SAFETY DEPARTMENT (1-855-429-2661) MSDS@NEXEOSOLUTIONS.COM.

LEGECY MSDS: 100000003236

MATERIAL NUMBER:
16077055, 16073964, 16056363, 16056356, 16056357, 16056358, 16062129, 16056352, 16056351, 16056349, 16054779, 16046240, 16042921, 16025330, 16021759, 16019432, 16015617, 16014535, 16011780, 16010154, 16010153, 16003404, 753188, 744157, 744156, 744155, 743541, 737136, 732888, 71426, 105116, 89683, 710843, 554046, 554339, 554259, 710845, 710844, 699274, 675942, 659492, 659543, 609164, 604726, 602950, 573215, 554301, 554258, 554057, 554072, 546939, 547346, 56925, 55985, 55046, 106065, 105122, 104184, 89681, 72410, 88743, 73303, 56030, 72360, 56778, 72407, 55980, 88588, 105887, 88163, 88696, 104973, 55830, 105891, 56748, 106249, 105895, 105078, 72211, 57110, 158779, 503944, 500032, 20025, 20024, 20023, 20022, 20020, 20019, 20021

KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THE SAFETY DATA SHEET:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS

AICS: AUSTRALIA, INVENTORY OF CHEMICAL SUBSTANCES

DSL: CANADA, DOMESTIC SUBSTANCES LIST

NDSL: CANADA, NON-DOMESTIC SUBSTANCES LIST

CNS: CENTRAL NERVOUS SYSTEM

CAS: CHEMICAL ABSTRACT SERVICE

EC50: EFFECTIVE CONCENTRATION

EC50: EFFECTIVE CONCENTRATION 50%

EGEST: EOSCA GENERIC EXPOSURE SCENARIO TOOL

EOSCA: EUROPEAN OILFIELD SPECIALTY CHEMICALS ASSOCIATION

EINECS: EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES

MAK: GERMANY MAXIMUM CONCENTRATION VALUES

GHS: GLOBALLY HARMONIZED SYSTEM

>=: GREATER THAN OR EQUAL TO

IC50: INHIBITION CONCENTRATION 50%

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IECSC: INVENTORY OF EXISTING CHEMICAL SUBSTANCES IN CHINA

ENCS: JAPAN, INVENTORY OF EXISTING AND NEW CHEMICAL SUB-STANCES

KECI: KOREA, EXISTING CHEMICAL INVENTORY

<=: LESS THAN OR EQUAL TO

LC50: LETHAL CONCENTRATION 50%

LD50: LETHAL DOSE 50%

LOAEL: LOWEST OBSERVED ADVERSE EFFECT LEVEL

NFPA: NATIONAL FIRE PROTECTION AGENCY

NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY & HEALTH

NTP: NATIONAL TOXICOLOGY PROGRAM

NZLOC: NEW ZEALAND INVENTORY OF CHEMICALS

NOAEL: NO OBSERVABLE ADVERSE EFFECT LEVEL

NOEC: NO OBSERVED EFFECT CONCENTRATION

OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT

PICCS: PHILIPPINES INVENTORY OF COMMERCIAL CHEMICAL SUBSTANCES

PRNT: PRESUMED NOT TOXIC

RCRA: RESOURCE CONSERVATION RECOVERY ACT

STEL: SHORT-TERM EXPOSURE LIMIT

SARA: SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT.

TLV: THRESHOLD LIMIT VALUE

TWA: TIME WEIGHTED AVERAGE

TSCA: TOXIC SUBSTANCE CONTROL ACT

UVCB:
UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS, AND BIOLOGICAL MATERIALS

WHMIS: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

MSDS NUMBER: 100000004346

APPENDIX J-E

EXAMPLE WASTE CHARACTERIZATION OF PRECIPITATION COLLECTED IN SUMPS

Waste Code 47737-11684 Statistical Y Data Start

T005095
12-APR-23
PASS
Stat Y
Start
Seq 786

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
CHLORINE, TOTAL	0	PASS	.821	86	0	PASS	.1209	PASS

Sample ID	Result	Units	Limit	Use Value
T005093	0	PPM	124	121
T005092	0	PPM	124	121
T005091	0	PPM	124	114
T005094	0	PPM	124	45.4
T005095	0	PPM	124	35

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
LOW VOLATILE METALS (AS,BE,CR)	306	PASS				PASS		PASS
	NOT HIGH OR LOW, NO CALC							

Sample ID	Result	Units	Limit	Use Value
T005094	529.91	PPM	4.87	530.786
T005091	505.95	PPM	4.87	507.981
T005093	475.14	PPM	4.87	477.17515
T005095	16.32	PPM	4.87	19.625
T005092	4.33	PPM	4.87	7.445

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
MERCURY	0	PASS	.821	8.04	0	PASS	.1169	PASS

Sample ID	Result	Units	Limit	Use Value
T005092	0	PPB	13	12.8
T005091	0	PPB	13	12.8
T005093	0	PPB	13	10.2
T005094	0	PPB	13	5.7
T005095	0	PPB	13	4.76

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
RESIDUE, PERCENT ASH	1.21	PASS				PASS		PASS
	NOT HIGH OR LOW, NO CALC							

Sample ID	Result	Units	Limit	Use Value
T005093	3.83	PERCENT	.6	3.83
T005095	1.1	PERCENT	.6	1.1
T005091	.84	PERCENT	.6	.84
T005092	.29	PERCENT	.6	.29
T005094	0	PERCENT	.6	.136

Parameter	AOR Value	Pass	Crit Val	Range	Q Hi	Q Hi Pass	Q Lo	Q Lo Pass
SEMI-VOLATILE METALS (CD,PB)	0	PASS	.821	2.6005	.1634	PASS	.2563	PASS

Sample ID	Result	Units	Limit	Use Value
T005092	0	PPM	3.74	3.369
T005094	0	PPM	3.74	2.944
T005093	0	PPM	3.74	2.5018
T005091	0	PPM	3.74	1.435
T005095	0	PPM	3.74	.7685

APPENDIX J-F

EXAMPLE LDR NOTICES

HERITAGE ENVIRONMENTAL SERVICES

LAND DISPOSAL RESTRICTIONS (LDR) NOTICE AND CERTIFICATION

Generator Name : [redacted]

Manifest Tracking No.: **001044646WAS** EPA ID No.: [redacted]

(1) Waste Does Not Meet Applicable Treatment Standards: This is a restricted waste that does not meet the applicable treatment standards set forth in Subpart D of 40 CFR Part 268.

Authorized Signature : Dana *optional for cert(1) **Printed Name :** [redacted]

Company / Title : _____ **Date:** _____

(1) Manifest Page/Line	(2) Hazardous Waste Code	(3) Wastewater Or Non Wastewater	(4) Subcategory (If applicable)	(5) Underlying Constituents	(6) Applicable Certification	One Time WS
1.1	D001	NWW	1.1	NONE	1	
1.2	D001	NWW	1.1	NONE	1	
1.2	D002	NWW	4	NONE	1	
1.3	D002	NWW	4	NONE	1	

Subcategory	Description
1.1	IGNITABLE CHARACTERISTIC WASTES MANAGED IN NON-CWA SYSTEMS
4	CORROSIVE CHARACTERISTIC WASTES MANAGED IN NON-CWA SYSTEMS

(ldr_pr_ot.rdf) **LDR3827564-15540** 01/05/2023 06:30 PM 1 of 1

APPENDIX J-G

EXAMPLE PRE-ACCEPTANCE LDR NOTICE

NOTIFICATION FOR WASTE RESTRICTION FROM LAND DISPOSAL

GENERATOR: [redacted]	ADDRESS: [redacted]
EPA ID #: [redacted]	[redacted]
MANIFEST #: 001172758WAS	[redacted]

LAND DISPOSAL RESTRICTION TABLE

Line#	Waste Stream	EPA Codes	Subcategory	Requires Treatment	F-codes	UHC's	NWW/WW
1	W1	D001	High TOC Ignitable	Y		113 141 165 171 197	NWW
2	W1	D001	High TOC Ignitable	Y			NWW
3	W1	D001, D004, D006, D007, D008, D011, D018, D035, D040, F002, F003, F005	High TOC Ignitable	Y	1, 3, 12, 15, 17, 18, 22, 26, 28	32, 52, 53, 54, 104, 108, 141, 198, 201, 216	NWW
4	W1	D001, D005, D006, D007, D008, D010, D011, D018, D035, D039, F001, F003, F005	High TOC Ignitable		1, 3, 11, 12, 15, 17, 18, 21, 22, 28	12, 25, 30, 32, 43, 45, 47, 51, 52, 53, 54, 68, 69, 70, 82, 83, 85, 91, 107, 108, 113, 135, 141, 165, 166, 171, 186, 198, 204, 216	NWW
5	W1	D001, D005, D006, D007, D008, D018, D035, F003, F005	High TOC Ignitable		1, 15, 17	106, 108, 138, 183, 197, 210, 216	NWW
6	W19	D001, D005, D007, D018, D035	High TOC Ignitable			3, 29, 55, 104 106 125 130 137 166 183 197 198 210 216	NWW
7	W1	D001, D005, D007, D018, D035, F003, F005	High TOC Ignitable		1 12 15 17 18 22 28	29 30 52 125 138 198 210	NWW
8	W1	D001, D005, D007, D035, F003, F005	High TOC Ignitable		1, 15, 22	55, 85, 104 106 137 197	NWW
9	W1	D001, D006	High TOC Ignitable				NWW
10	W1	D001, D007	High TOC Ignitable			3, 45, 135, 137, 138, 166, 183, 202, 207, 215, 216	NWW
11	W1	D001, F003	High TOC Ignitable		1		NWW
12	W1	D001, F003	High TOC Ignitable		1 12 15 18 28	30 32 108 202 207 216	NWW
13	W1	D001, F003, F005	High TOC Ignitable		1, 15, 17, 18, 22	108, 135, 141, 210, 216	NWW
14	W40	D005					NWW
15	W1	D008		Y		1, 30, 85, 108, 166, 198, 200, 202, 203, 216	NWW
16	W1	D008, D010, D018, D039, F002			21	13, 106, 141, 165, 183, 197, 210, 216	NWW
17							
18							
19							
20							
21							
22							
23							
24							

CERTIFICATION:
I HERBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ASSOCIATED DOCUMENTS IS COMPLETE AND IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND INFORMATION.

[redacted] Physical Scientist 20230104

SIGNATURE TITLE DATE

APPENDIX J-H

RECEIVING UNIT COMPATIBILITY TEST FORM

TABLE A-1			
Receiving Unit Compatibilty Test - Liquids			
Date:	Generator ID:	Generator Adress:	
Technician Name:			
Quantity of Wastes Mixed:	Waste Name	Quantity	Units
Total Quantity of Sample:	-		
Observations (Reactions, Temp. change, etc.):			
Management Procedures:			
Storage Container Identification:			

APPENDIX J-I

VOLATILE ORGANIC COMPOUND SCREENING

TABLE A-2			
Volatile Organic Compound Screening			
Date:	Generator ID:	Generator Adress:	
Technician Name:			
Quantity of Wastes Mixed:	Waste Name	Quantity	Units
Total Quantity of Sample:	-		
Observations (Reactions, Temp. change, etc.):			
Additional Evaluation:			
Storage Location:			

APPENDIX J-J

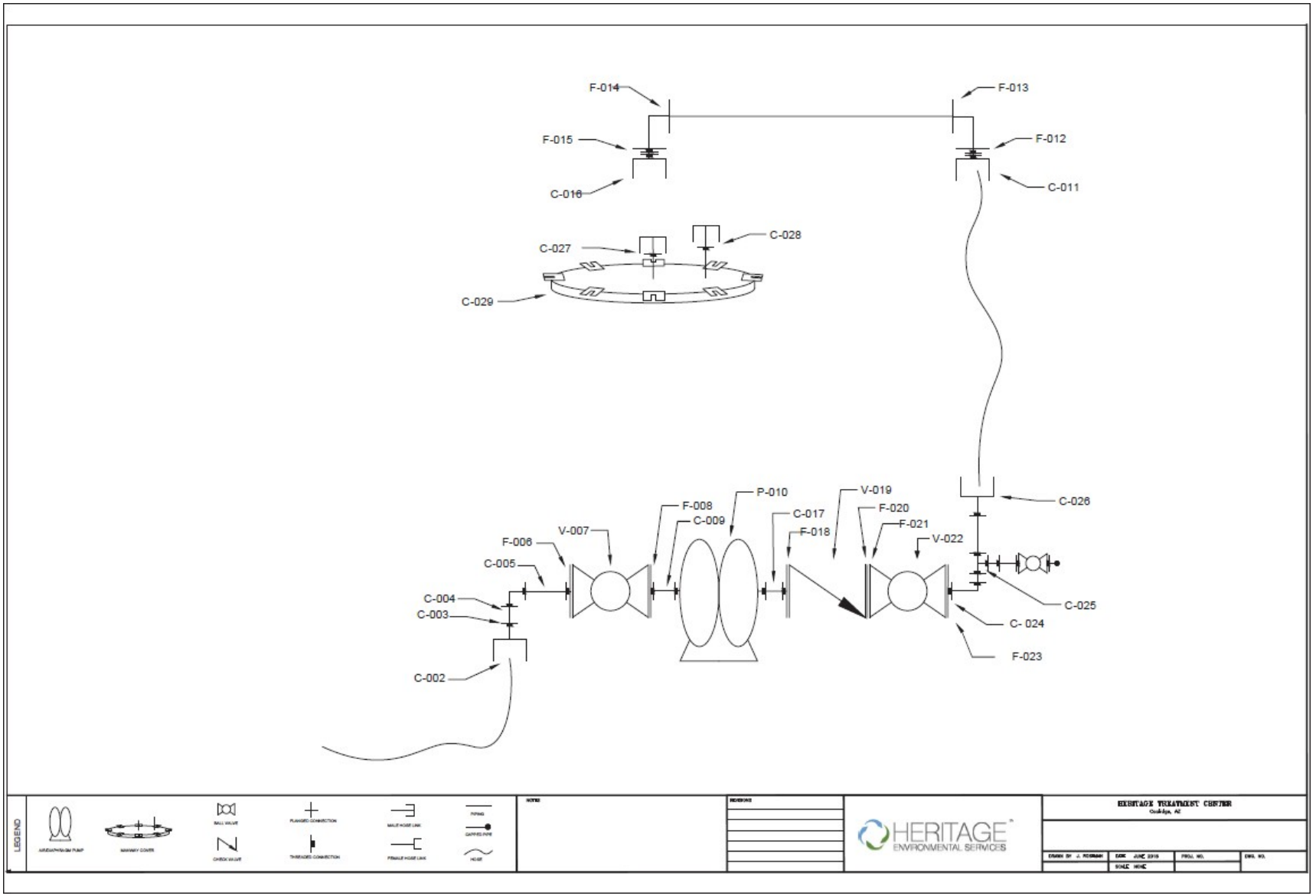
LIST OF EQUIPMENT SUBJECT TO SUBPART BB

Equipment Identification	Approximate Location	Equipment Type	Percent by Weight Organics	Physical State	Method of Compliance With Standard
C-002	200 Line	Female Hose Link (Camlok)	>10%	Liquid	40 CFR Part 264.1058(a)
C-003	200 Line	Threaded Connection	>10%	Liquid	40 CFR Part 264.1058(a)
C-004	200 Line	Threaded Connection	>10%	Liquid	40 CFR Part 264.1058(a)
C-005	200 Line	Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
F-006	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1058(a)
V-007	200 Line	Valve	>10%	Liquid	40 CFR Part 264.1061
F-008	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1058(a)
C-009	200 Line	Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
P-010	200 Line	Pump	>10%	Liquid	40 CFR Part 264.1052(a)(1) and (2)
C-011	200 Line	Female Hose Link	>10%	Liquid	40 CFR Part 264.1058(a)
C-012	200 Line	Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
F-012	200 Line	Flange w/ Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
F-014	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1058(a)
F-015	200 Line	Flange w/ Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
C-016	200 Line	Female Hose Link	>10%	Liquid	40 CFR Part 264.1058(a)
C-017	200 Line	Threaded Connections	>10%	Liquid	40 CFR Part 264.1058(a)
F-018	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1058(a)
V-019	200 Line	Valve	>10%	Liquid	40 CFR Part 264.1061
F-020	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1058(a)
F-021	200 Line	Valve	>10%	Liquid	40 CFR Part 264.1058(a)
V-022	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1061
F-023	200 Line	Flange	>10%	Liquid	40 CFR Part 264.1061
C-024	200 Line	Threaded Connection	>10%	Liquid	40 CFR Part 264.1061

Equipment Identification	Approximate Location	Equipment Type	Percent by Weight Organics	Physical State	Method of Compliance With Standard
C-025	200 Line	Threaded Connections	>10%	Liquid	40 CFR Part 264.1061
C-026	200 Line	Female Hose Link	>10%	Liquid	40 CFR Part 264.1061
C-027	Loading/Unloading Pad	Male Hose Link (Camlock)	>10%	Liquid	40 CFR Part 264.1061
C-028	Loading/Unloading Pad	Male Hose Link	>10%	Liquid	40 CFR Part 264.1061
C-029	Loading/Unloading Pad	Male Hose Link	>10%	Liquid	40 CFR Part 264.1061

APPENDIX J-K

SCHEMATIC DRAWING OF ORGANIC WASTE CONSOLIDATION PROCESS


F-014
F-013
F-015
F-012
C-016
C-011
C-028
C-027
C-029
C-026
P-010
V-019
F-008
C-009
C-017
F-020
V-007
F-021
F-006
F-018
V-022
C-005
C-004
C-025
C-003
C- 024
F-023
C-002
LEGEND
HERITAGE
ENVIRONMENTAL SERVICES

APPENDIX J-L

SUBPART BB OPERATING LOG

Subpart BB Operating Log

Equipment	Description	Hours Operating
Pumps	2" diaphragm pump	0
Valves		0
Flanges		0
Other Connectors		0
Lines		0

APPENDIX J-M

SUBPART CC INSPECTION/MONITORING LOG

Table O-2
Subpart CC Inspection/Monitoring Log[1,2]
Heritage Environmental Services, LLC
Coolidge, Arizona

Container ID#	Container Storage Area	Container Volume	Waste Type	Type of Control	Control Adequate? (note any defects)[3]	Date of Inspection / Monitoring	Date of Tightness Testing (if applicable)	OVA Reading (if applicable)	Date Begin Repair (if applicable)	Date Complete Repair (if applicable)	Comments (include follow-up actions, if applicable)	Inspector (print name)

Notes:

[1]For containers that are subject to Subpart CC with observed defects and that do not meet DOT packaging specifications

[2]Submit this log to the ADEQ annual by February 1 for the previous calendar year

[3]Immediately notify Maintenance Department when defects observed

APPENDIX J-N

ORGANIC VAPOR ANALYZER (OVA) INSPECTION/CALIBRATION LOG

Table O-3
Organic Vapor Analyzer (OVA) Inspection/Calibration Log
Heritage Environmental Services, LLC
Coolidge, Arizona

Date	Inspector/Calibrator (print name)	Any visible defects?	Zero Gas Reading	1	2	3	Calibration Gas Reading	1	2	3	Difference	1	2	3	Calibration Precision	Response Time	1	2	3	Comments

APPENDIX J-O

SOP FOR NOTIFYING TRANSPORTERS OF ADEQ POLICY STATEMENT FOR LEARNING SITES

1. POLICY

It is the policy of Heritage Environmental Services, LLC. ("Heritage") to comply with ADEQ policy which states the protection of learning sites will be a factor in facility permitting.

2. SUMMARY

This program has been developed as guidance for ADEQ policy 1103 which applies to both TSD operations and transportation routes. As the Coolidge facility is not currently within two miles of a learning site, only the criteria regarding transportation routes apply. The transportation routes criteria in the policy states that facilities that transport hazardous waste to or from their location will be asked to consider alternate transportation routes to effectively minimize transportation near learning sites. Heritage does not currently anticipate any changes to transportation routes will be required as the main route to the facility (I-10 to SR 287) appears to be the route that minimizes transportation near learning sites.

3. DEFINITIONS

- Link to ADEQ policy statement 1103.0 (and copy attached)
- Learning sites consist of all existing public schools, charter schools, and private schools at the K-12 level, and all planned sites for schools approved by the Arizona School Facilities Board.

4. RESPONSIBILITIES

Heritage Coolidge management personnel are responsible for:

- Reviewing this SOP on an annual basis at a minimum to determine if updates are needed. This will include reviewing the ADEQ website at http://azdeq.gov/emaps to confirm no changes to the locations of learning sites has occurred which would require changes to this procedure.
- Revieing this SOP with all Heritage drivers to assure knowledge of the ADEQ policy and the information contained in this SOP.
- Posting this SOP in the driver area to assure all drivers including 3rd party drivers are made aware of this information.

Heritage and 3rd party drivers are responsible for minimizing transportation of hazardous materials near Arizona learning sites when feasible.

5. GENERAL REQUIREMENTS

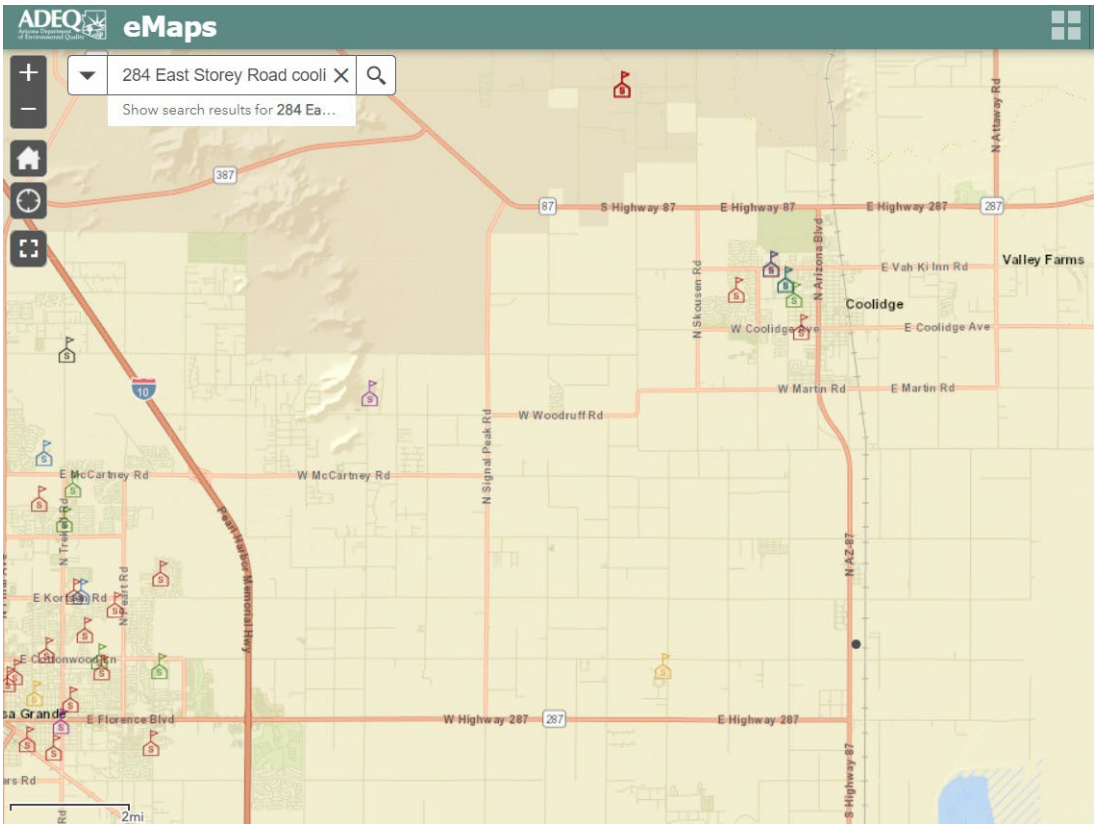
The Heritage Coolidge Facility is not currently within two miles of a designated learning site. As a result, the requirements in Section 5.1 do not currently apply. The requirements in Section 5.2 apply to Heritage transportation-related activities.

5.1 For facilities within two miles of a learning site:

- Create a map displaying learning sites within two miles of the facility.
- Discuss learning site permitting conditions with ADEQ personnel as needed through the permitting process.
- Maintain an updated emergency contingency plan.

5.2 For transport activities associated with hazardous waste shipments:

- Determine any learning centers on main truck routes (see map below). Based on the location of learning centers on the map, drivers should adhere to the following considerations:
    - Utilize the main truck route of Interstate I-10 to East Highway 287 for shipments to and from the facility.
    - Minimize the use of East Highway 87 through the town of Coolidge when possible. Cases where use of E Highway 87 would be necessary can include:
        - Pickups along the route are required.
        - Detours / road construction / vehicular accidents limit the use of the main route.
        - Route originating from the east which does not utilize Interstate I-10 to access the facility.



SOP Revision History

Revision	Date	Changes Summary
Revision 0	7-13-23	New
Revision 1		
Revision 2		

RE: HERITAGE SOP AND ADEQ POLICY FOR TRANSPORTATION NEAR LEARNING SITES

I acknowledge that I have received and reviewed a copy of the Heritage SOP and the ADEQ's Policy regarding transportation near learning sites (a.k.a. Schools). If I have any questions or need additional information, I will ask my contact at Heritage – Coolidge.

Driver Printed Name	Signature	Date

APPENDIX J-P

WASTE MINIMIZATION CERTIFICATION

HERITAGE®

MEMORANDUM

TO: RCRA Part B Permit File
FROM: Andrea Chase
DATE: April 8, 2024
RE: Waste Minimization Certificate

The purpose of this memorandum is to provide the annual waste minimization certification in accordance with Heritage's Part B permit issued by Arizona Department of Environmental Quality, Condition II.S. on Page II-11.

Heritage Environmental Services, LLC ("Heritage") has a program in place to reduce the volume and toxicity of generated hazardous wastes to the degree determined to be economically practicable. Also, the methods of treatment, storage, and disposal currently available to Heritage are those practicable methods which minimize, to the extent possible, the present and future threat to human health and the environment.

In 2023, Heritage performed the following waste-minimization efforts at the Coolidge facility:

1. Sent cyanide containing waste to the Heritage facility in Indianapolis to be treated in a patented cyanide destruction process which does not rely on toxic reagents such as chlorine gas for waste treatment.
2. Recycled used cardboard, office white paper, pallets, miscellaneous scrap metal parts, and aluminum cans.
3. Sent fluorescent lamps and tubes to recycling facilities for mercury recovery.
4. Sent various types of electronic waste (e-waste/ e-scrap) such as CRT's, computers, office equipment, cellular telephones, printers, etc. to facility for dismantling and recycling.
5. Sent empty containers to recyclers when practical.
6. Implemented ongoing spill prevention, preventative maintenance, inspection, and facility housekeeping programs to minimize environmental releases.

In summary, Heritage continues to promote an aggressive, ongoing commitment to waste minimization. Pollution prevention and waste minimization are supported by senior management as being essential to long-term interests.

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 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, toe 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.

Certification period: January 1, 2023 – December 31, 2023

Signature: _____ Date: 4/10/24

Name: Andrea Chase

Title: Plant Manager

APPENDIX J-Q

SOP FOR OFF SPEC PROCEDURE / LOAD REJECTION PROTOCOLS

1.0 Policy / Purpose

Heritage has developed these work instructions to standardize operations associated with servicing our customers in an effort to provide the highest level of regulatory compliance and customer satisfaction. This SOP will instruct Heritage personnel on the requirements in place regarding Manifest Discrepancies / off specification materials.

2.0 Key Points

The proper management of off specification materials is critical to all personnel managing wastes through our network of locations. Errors and incomplete documentation can affect profitability, facility compliance, regulatory reporting, and most importantly safety. These issues can occur both at your facility and at all Heritage and 3rd party TSDFs that handle the materials after you. Key points to remember include:

1) Document all off specs. MMS comments, location logs, and e-mail communications are all necessary to document issues. Including this documentation when scanning manifest copies is also requested, when possible.
2) Generators (through the Heritage AC) must approve all changes made to off spec paperwork / materials. Documentation solely from a broker or Heritage representative is unacceptable.
3) Discrepancies must be resolved prior to shipment off site (or at a minimum, initial steps taken to correct and actions communicated to management at the next facility).
4) Compliance personnel must be involved with any off spec involving
   - Count discrepancies
   - Rejections to alt TSDs
   - Returns to generators
   - 3rd parties reporting the receipt of the wrong materials
5) All noted errors must be resolved prior to accepting possession of a shipment from a third party transporter. All quantities must be confirmed and an inspection of all containers, markings, and labels must be complete and accurate prior to acceptance by Heritage.

3.0 Types of Discrepancies / Off Spec Materials

There are 2 main classes of waste discrepancies, paperwork issues and material issues.

3.1 Paperwork / Count / Wrong Facility Issues

These types of discrepancies can often include multiple containers and can involve significant work to resolve. **You must contact a Heritage Compliance Manager (Corporate and / or Heritage TSD it is destined for) for assistance with these types of discrepancies.** Discrepancies of this type include:

- Count errors / missing drums
- Wrong or missing paperwork
- Items delivered to wrong location.

These types of discrepancies are difficult to fully track as there are often multiple manifests and items involved. It is critical that these issues are found and addressed at the initial Heritage facility because resolution becomes much more difficult as the materials are moved to different facilities.

3.2 Material / Container Issues

These types of discrepancies often include a single container and are often found as a result of sampling activities. Discrepancies of this type can include:

- Chemical / wastestream inconsistencies
  - Solid / Liquid / Gas inconsistencies
  - Analysis does not match wastestream profile range
  - Prohibited materials
    NOTE: Prohibited materials must be moved to the Lab Depack Storage Area and shipped off-site within 15 days.
- Quantity discrepancies – Greater than 10% weight discrepancy
- Wastestream matrix inconsistencies
- Container issues
  - Incorrect size
  - Incompatible container
  - Damaged containers
  - Labeling / Marking issues

3.3 Wastestream / Compliance Holds

Items are often place on hold by corporate approvals prior to arrival at the facility. These holds are utilized to assure specified special handling takes place or additional paperwork such as packing lists are approved prior to acceptance. These types of holds are not considered an off-spec scenario but are managed through the same process in most cases and the documentation and paperwork requirements are similar.

4.0 Off Spec Resolutions

4.1 Accept as is – Heritage management personnel can agree to accept the off-spec material as received. This option still requires full documentation of the issue and contact with the generator. See Section 5 below for discrepancy resolution process.

4.2 Accept with modified billing additional / alternate processing – Similar to 4.1, Heritage will accept the material but due to additional / alternate processing required to manage the material safely, compliantly and efficiently an additional charge to the customer is required. Additional contact with the Heritage Account Coordinator will be required to assure billing is adjusted and processed correctly. See Section 5 below for discrepancy resolution process.

4.3 Reject to Alternate TSD – Generally reserved for situations where the facility is unable to manage the material due to regulatory or processing restrictions or in cases where the off-spec material can be managed by a different facility in a more cost effective manner. See Section 6 below for specific information and requirements associated with rejecting materials off-site.

4.4 Return to generator – In situations where a discrepancy resolution cannot be agreed upon with the generator, the only remaining option is to return the material to the generator. See Section 6 below for specific information and requirements associated with rejecting materials off-site.

5.0 Steps to resolve a discrepancy

5.1 Discrepancy is found
5.2 Material in question is segregated and marked with discrepancy / hold information (date, reason for the hold, initials of employee, and any other pertinent information)
5.3 No further processing / movement is authorized until discrepancy is resolved
5.4 Supervisor is contacted
5.5 Discrepancy is noted in the MMS via computer or handheld scanner (note reason for discrepancy in comments - transaction, billing, or container comments)
5.6 Resolution options are determined by the supervisor
5.7 Account coordinator is notified and preferred resolution is communicated
5.8 Generator / customer is contacted
5.9 Generator / customer determines resolution after consulting Heritage personnel
5.10 Once container issue is resolved location management must go into waste inventory and remove / resolve the hold in the MMS.
5.11 Location management will then notify the material handler that the material can be stored / accepted and to remove the “HOLD” sticker.
5.12 Supervisor will make changes on the manifest and other required paperwork as needed. Manifest changes must be initialed / dated by the person making the change
5.13 Changed paperwork is rescanned into the MMS

General steps for an off-spec not requiring return / rejection off site are complete. There are additional steps required for a rejection / return. See 6.2 below for additional information

6.0 Rejection / Return Procedures

Due to the increased risks, costs, paperwork, and reporting associated with a material rejection / return, every effort should be made to minimize these instances. Scenarios that must result in a rejection / return include:

- The Heritage facility is unable to accept (wrong facility / not permitted to take material)
- The Heritage Facility is unable to safety process / repackage the material
- The customer is unwilling to pay the off-spec fees associated with the discrepancy

6.1 Types of rejections

6.1.1 Full Rejection is generally the best option when possible. It involves the least amount of paperwork and computer inventory changes

and results in more complete tracking and reporting. Materials / loads eligible for a full rejection include:

- Bulk loads – Liquid tankers or Solid materials in roll off or dump trailers
- Wrong TSD – if a manifest arrives at a TSD that it is not manifested to
- Wrong manifest – When materials are shipped on the wrong manifest
- Single item on a manifest – If a manifest only contains one item

6.1.2 Partial / Container Rejection is required when only a part of a shipment is off-spec and the remaining materials can be processed normally. Partial rejections can include, bulk containers with a remaining heel, or any other rejection scenarios involving less than all materials on a manifest

6.2 Steps to reject / return manifested materials – Please utilize the **checklist** (contained on Page 5 of this procedure) to assure all required steps in rejecting / returning materials are completed and properly documented. Generally there are communication tasks, documentation steps, paperwork changes, and MMS inventory changes that are required for all material returns / rejections.

6.2.1 Required communication

- AC – must be contacted and address any customer, billing, and logistics issues resulting from the return.
- Customer / Generator – we must have documented communication from the customer authorizing the rejection / return
- Transporter – Scheduling and billing associated with the re-transport of materials must be completed
- Facility receiving the waste next (if not destination facility) – If the waste will be going through a Heritage or 3rd party 10-day, that facility must be notified of the pending shipment and any routing instructions
- Destination facility – Personnel at the receiving facility must be contacted and approve both the material receipt and scheduled arrival

6.2.2 Required documentation

- Manifest notations or new manifest
- MMS
- Proof of customer acceptance
- Verification that material reached its new destination. This can take the form of receiving a manifest copy back from the destination TSD or from the customer / transporter

6.2.3 Manifest / paperwork changes – Click link below for additional details

- **Heritage Manifest Manual**

6.2.4 MMS / Computer changes - Click link below for additional details

- **Inventory Special Maintenance Manual**

SOP Revision History

Revision	Date	Changes Summary
Revision 0	07/30/08	New
Revision 1	3-6-14	Complete rewrite
Revision 2	3-9-16	Minor updates and removal of 6.2.3 and 6.2.4
Revision 3	5-15-17	Added links to 6.2.3 & 6.2.4 and minor addl changes
Revision 4	1-23-24	Minor updates

APPENDIX J-R

EXAMPLE OFF-SPEC FORM

Heritage Waste Rejection / Return Checklist

Utilize this checklist to assure all required steps are completed prior to moving off specification materials from your facility. A copy of this checklist should be kept and scanned with all manifests packets.

1) Material Information

Manifest #	
Line # or Container #	
Additional Information	
Reason for Rejection / Return*	

*Note reason for rejection in MMS transaction and / or drum comments

2) Communications	Complete	Name of person contacted and date of contact
Customer has been contacted	☐	
Transporter has been contacted	☐	
Next facility has been contacted	☐	
Destination Facility has been contacted	☐	

3) Paperwork Completion		Note new paperwork # and any additional info.
New paperwork has been created	☐	
Original paperwork has been modified*	☐	

*If original paperwork is not being used for return verify that quantities etc. have been adjusted to match current inventory

4) Electronic / Inventory Updates		Note new transaction # and any additional info.
ARTS has been updated (HTS only)	☐	
Transaction billing has been credited	☐	
MMS inventory has been moved	☐	
New / Changed paperwork imaged	☐	
Personnel / Help Desk has been notified to move the material off-site in the MMS	☐	

5) Sign off

Completed By:	
Date:	

Once these requirements are complete, the material can be moved off site.

APPENDIX J-S

SOP FOR RESPONDING TO CONTAINER LEAKS

1. POLICY

It is the policy of Heritage Environmental Services, LLC. ("Heritage") to have written Standard Operating Procedures. Heritage activities regarding responding to container leaks and spills shall comply with all federal, state, and local laws as well as safe practices dictated by Heritage. This SOP must be reviewed annually by all employees and third party contractors engaging in container leaks and spills responses.

2. PURPOSE

Our goal is to have no accidents, no spills, and no other incidents, which could adversely affect our employees, the public, or the environment. Properly managing leaking containers is an essential part of working safely both at our facilities and at our customer's sites. The purpose of this SOP is to describe the proper procedures to safely, efficiently, and compliantly manage leaking and/or spilled containers during storage/staging or handling at the Coolidge, AZ facility

3. DEFINITIONS

CONTAINER – a drum, box or tote that meets the UN specification to safely transport or store both hazardous and non-hazardous waste

PPE – Personal Protective Equipment

DCS – Document Control Specialist

4. RESPONSIBILITIES

Prior to taking any action on a leaking or spilled container, the 11 Day Supervisor and/or the Facility Manager should be called to perform a hazards assessment of the area. This includes the location of the container in relation to other containers in the trailer, staging, or storage area. Potential incompatibility concerns in the event of a release should be addressed. There needs to be adequate spacing around the container to maneuver people and equipment.

5. GENERAL REQUIREMENTS

PPE
Nitrile gloves
Shovels
Brooms
Respirator (if needed)
Absorbent (Quick-Sorb)
Over Pack Container(s) poly or metal

6. PROCEDURES

6.1 Assessment of the situation includes, but is not limited to the following:

- Signs that container is under pressure, such as swelling or bulging
- Determine if there is an imminent risk of the container rupturing (hissing, rocking, fuming, etc.). If this is the case, the area MUST be evacuated.
- Symbols, words, or other markings on the container indicating the type of material (hazardous or non-hazardous) that it contains and the material fits the waste stream profile (this is typically written on the top of the container and on the container label affixed to the side of the container)
- The container type, which is also a good indication of the type of material within such containers
- Signs of deterioration (for over packing)

- The type of container lid (closed top, removable-top with or without bungs)
- Don PPE as per the assessment

PLEASE NOTE: Containers may be under pressure even if they do not show any outward signs of pressurization. Most drums will not start to exhibit outward signs of pressurization until 6-8 psi. Pay particular attention to containers of aerosols, flammable liquid loose-packs and drums that may contain organic material that may decay, generating hazardous gases.

6.2 Removal and over pack

- Once the situation assessment is complete and there is no immediate danger, the next step is to contain the leak and/or over pack the leaking container
- Control the spill by placing enough absorbent (Quick-Sorb) to contain the spill to a small area and remove the leaking and/or spilled container and over pack the container
- Use a fork lift as well as drum-cinch or drum clamp to lift the drum and safely place it in a compatible over pack container
  Poly drum for acids
  Metal drum for flammables
- Close the over pack
- Have the inbound DCS generate a label and bar code consistent with the material that was over packed
- Affix label and bar code to outside of over pack along with appropriate DOT diamonds

6.3 Clean Up Procedures

- Depending on what was spilled, use compatible spill clean up material
- Swap soaked absorbent material with new absorbent material until all spilled material is absorbed
- Using brooms and shovels, place all clean up material into a container for disposal. **NOTE**: never pick up material by hand
- Have the outbound DCS generate a Heritage unique label and bar code for the contaminated material.
- Affix label and bar code to outside of container along with appropriate DOT diamonds

6.4 Decontamination and used PPE are placed in the satellite accumulation drum located on the
dock

6.5 Post Clean Up Inspection

- When the area has been properly cleaned and no material is present notify the supervisor and/or manager
- The 11 Day Supervisor and/or Facility Manager shall do a post inspection of the area to ensure that the leak has been contained and/or spilled material has been properly cleaned and there are no liquids present and also to ensure there are no additional containers leaking.

SOP Revision History

Revision	Date	Changes Summary
Revision 0	06/14/07	
Revision 1	05/30/17	Minor formatting revisions

APPENDIX J-T

SOP FOR RAILCAR OPERATIONS

1.0 POLICY

Heritage activities regarding railcars shall comply with federal, state, and local laws as well as safe practices dictated by the railcar manufacturer and those deemed as established safe work procedures by the rail way industry.

2.0 PURPOSE

This procedure describes requirements for working around or on rail ways, specifically detailing the loading and unloading of bulk tanker cars at fixed facilities.

3.0 REFERENCE MATERIALS

*49CFR Part 174 – DOT Requirements for Carriage by Rail

*Federal Railroad Administration (FRA) www.fra.dot.gov/

*Movement Approvals – FRA site for on line application for one time movements

*FRA Hazardous Materials Guidance #127 – One-Time Movement Approval Procedures

*Indy Treatment Center SOPs 16-03, 16-29, & 16-30

*OTMA Regulations Guidance:

Rail OTMA Regulations.pdf

TABLE OF CONTENTS

4.0 RAILCAR - GENERAL SAFETY REQUIREMENTS

4.1 Only trained employees will move, load, or unload railcars. These workers should understand the possible dangers of fire, explosion, and toxic effects from exposure to hazardous materials. A written certification of the following training requirements is required:

4.1.1 HAZWOPER 24 / 40 hour training with annual 8 hour refresher
4.1.2 General rail safety training (This SOP or acceptable alternative)
4.1.3 Function specific (railcar loading / unloading) training
4.1.4 Emergency training / Spill Prevention & Release Plan
4.1.5 Security awareness / security plan training

Training will be conducted prior to initial assignment and annually thereafter. Additional re-training is required if unsafe job performance is observed. Documentation will be maintained for all training conducted.

Additional non-rail related training may also be required commensurate with the type of activity being performed. Reference the Heritage Peoplesoft training database for additional training requirements.

4.2 The following inspections are required for all location with rails activities:

4.2.1 Daily Rail Spur Inspection
4.2.1 Prior to unloading inspection
4.2.1 Prior to shipping inspection

*Examples of acceptable inspection forms can be found in Appendix A.

4.3 All facilities will have a documented site specific rail spur release prevention and response plan (or a designated section in their site contingency plan). The plan will cover the following at a minimum:

4.3.1 Actions to prevent hazards
4.3.2 Actions to respond to a release
4.3.3 Actions to assure regulatory compliance
4.3.4 Emergency contact information
4.3.5 Locations of applicable emergency equipment

Heritage Field Crews working on off-site facilities will have job specific safety plans in place which cover the same elements as listed above.

4.4 Permission to take a track out of service must be obtained from the railway supervisor prior to performing any work within 6 feet of any track.

4.5 Each hazmat employee responsible for loading / unloading a tank car must secure access to the track to prevent entry by other rail equipment and place caution signs on the track or on the tank cars to warn persons that the tank car is connected to unloading equipment. Caution signs must be rectangular, at least 12 inches high x 15 inches wide, be constructed of durable material, and bear the word “STOP” sized at least 4 inches in height. The letters must be white on a blue background.

4.6 There must be an established communication method in place between crew members prior to the commencement of work. Communication can take the form of hand signals or radio communications (but not both). Distress calls will be preceded by the word “EMERGENCY” repeated 3 times.

4.7 Follow established Heritage fall protection protocols and procedures when mounting / dismounting rail equipment. This includes maintaining 3 points of contact at all times and utilizing fall protection devices when required.

4.8 Employees must follow the designated rail crossing route established by Heritage allowing employees to pass to and from places without passing under, over or through the railcars, or between the cars that are less than 10 feet apart on the same track. When an established route is not available these general procedures must be followed:

4.8.1 Do not cross within 10 feet of a parked railcar
4.8.2 Do not cross between uncoupled cars
4.8.3 Stop, look, and listen prior to proceeding across the tracks

4.8.4 Never step on rails, as they may be slippery
4.8.5 Never crawl under rail equipment or climb over moving equipment.
4.8.6 Never move from car to car

4.9 Prior to working on, under, within, or near railcars the handbrake must be set and wheels must be chocked or otherwise prevented from moving in both directions. Two chocks should be used to restrain the wheels, one on each side of the train with the same axel.

4.10 Heritage will post warning signs near doorways that open onto tracks, or at blind corners, and at similar places where an employee's vision may be restricted. Heritage will also post signage in areas that have insufficient clearances for employee access between railcars and structures.

4.11 It is each employees responsibility to use extreme caution whenever working on or near railways. The employee must be alert to approaching trains and use extreme caution. Keeping in mind that the train/railcar has the right of way at all times.

4.12 General loading / unloading safety procedures:
4.12.1 All loading / unloading is to be conducted from the top of the railcar. No Loading or unloading is to be conducted using belly valves.
4.12.2 No loading / unloading of materials is to be conducted during rain events and all spill prevention systems must be engaged prior to starting work.
4.12.3 All spill control measures are to be in place prior to operations
4.12.4 Review test stencils on railcar to confirm the car is not overdue any test or qualification. Do not load any car with overdue tests or inspections. Contact your supervisor if and overdue conditions are found regarding a railcar on Heritage premises.

5.0 LOADING BULK TANKER RAILCARS

5.1 All Heritage personnel handling the loading of bulk materials shall wear the required personal protective equipment as outlined in the Health and Safety Plan or location personal protective equipment guidelines for the specific material involved. At a minimum the PPE requirement will include an approved hard hat, approved safety shoes / boots, safety glasses, and a reflective vest / jacket.

5.2 Prior to loading, tanker should be carefully checked for condition and to determine the contents of each railcar / verify the car is empty.

5.3 Obtain authorization / required paperwork from your direct supervisor for the tankerloading

5.4 Check to make sure the blue "STOP" / Caution – Men At Work" sign is on the rail spur or car that you will be loading. Employees must place on the track signage to give warning to persons approaching from the open ends of the track. This signage can either be a Caution sign or it can read "Tank Car Connected"

5.5 All railcars must have their wheels securely chocked on both sides and the derailer must be in place before the cars are hooked up. Ensure that rail switches are aligned so that it would divert any incoming railcars to a different line that is not

being used to perform the unloading operations. Rail switches must also be locked with a padlock. Place secondary containment pans under railcar, ensure than railcar is positioned over spill protection devices, and ensure that all spill control measures are in place.

5.6 Verify that a qualified worker will be present throughout the entire loading operation and at all times when the car is connected. If it is necessary to discontinue operations before they are completed, close the outlet valve and replace the dome cover and chamber cap. Do not allow tank cars to stand with loading connections attached after operations are completed.

5.7 A FM/NFPA approved grounding system shall be used between the railcar and the loading station for any flammable or explosive material. The grounding switch must be in the "off" position before the wire is attached to the railcar. After the wire is securely attached to the railcar, the switch shall be turned to the "on" position before unloading or loading is started and left in this position until the loading is completed and all connections have been removed.

Manway cover removal / closure

5.8 Removing Cover – These are the general steps required for removing covers. Always remember to relieve the tank car of interior pressure before removing the domed manhole cover or outlet valve cap.

- 5.8.1 Screw Type Dome Cover – loosen by using a bar placed between the lug and knob on the covers top. Make two complete turns to expose the ½ inch vent holes in the threaded portion of the dome cover. If escaping vapors are heard, tighten the cover and release the pressure by raising the safety valve.
- 5.8.2 Bolted Dome Cover – unscrew all the nuts one turn and lift the cover to break any adhesion between the cover and the dome's ring. If there is a sound of escaping pressure, tighten the dome and repeat the venting operation.
- 5.8.3 When no pressure is detected continue loosening dome fixture
- 5.8.4 Remove all pre-existing security seals prior to loading.

5.9 Move the loading hose to the top of the railcar

- 5.9.1 Attach pulley and rope to your belt loop and climb to the top of the railcar.
- 5.9.2 Once tied off or otherwise secured, per Heritage Fall Protection guidelines, attach pulley to side of railcar and feed rope through pulley.
- 5.9.3 Have ground personnel tie rope to unloading hose and lift hose to top via rope / pulley.
- 5.9.4 Once at top of railcar, unloader will grab the hose and secure it in the proper position.

5.10 Place the end of the hose in the railcar ensuring the hose reaches the bottom of the tanker.

- 5.10.1 A double block and bleed valve (spool valve) arrangement must be provided on all liquid transfer lines that must be disconnected.

5.11 Connect the other end of the hose to the tank / tanker truck the material contained in. Verify correct tanker / tank with supervisor prior to connection. Record level of receiving tank prior to transfer if applicable.

5.12 Tie down the hose to assure it staying secure / in place during transfer.

5.13 Place the Manway cover on the hose to further secure and prevent foreign objects from entering.

5.14 Turn on the tank pump / pump mechanism on the tanker truck. Begin the loading of the material.

5.15 Continually monitor the level of the tank / tanker truck / railcar to prevent overflowing. Monitor surrounding area for any leaks / spills.

- 5.15.1 Sufficient outage must be left in tank to allow for possible expansion. Refer to applicable regulations for correct outage for the commodity loaded.
- 5.15.2 Do not load more the 6,000 LBS under maximum load weight.

5.16 When loading is complete remove hose from loading tank / tanker truck and purge the material in the hose. After complete turn off pump.

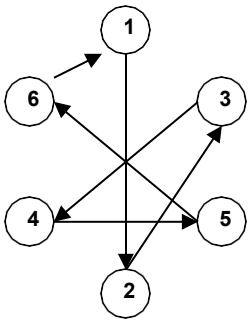
5.17 When pumping is complete, signal operator you are ready to remove hose

5.18 Loosen hose tie downs and slowly remove hose from tanker / material. Hose should be cleaned as it is removed. Dispose of wipes in proper waste accumulation containers.

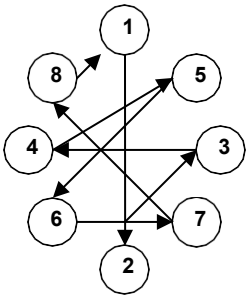
5.19 Remove all tie downs, cap hose, and lower hose to the ground.

5.20 Close and Seal Manway Covers

- 5.20.1 Clean off any product, debris, or dirt/ residue and inspect the condition of the cover gasket and sealing edge of the Manway ring for sealability. *Replace if defects noted. Always verify that gasket is appropriate for the type of railcar and material when replacing. Replace with flange (Pre-seated) designed gasket whenever possible to assure the gasket will not shift during the manway closure process.
- 5.20.2 Close cover and center so gasket is in full contact with the sealing edge of the Manway ring.
- 5.20.3 Swing all cover eyebolts to a vertical position and hand tighten the nuts. Check again for proper gasket sealing.
- 5.20.4 Use an 18” (max) wrench handle for tightening bolts
- 5.20.5 Snug up nuts (about ½ turn at a time) going from side to side as shown:



6 Bolt Arrangement



8 Bolt Arrangement

Continue tightening in above sequence or in rotation until all nuts feel securely and evenly tightened.

5.21 After the cover is bolted in place and all nuts tightened, check hinge pin for looseness. If pin shows evidence of binding, the gasket may not be sealed properly and leakage could occur. If this condition exists notify your supervisor for additional instruction.

5.22 Place security seal on manway and record number(s) on outbound inspection form. Note: Always remove any pre-existing security seals prior to installing new security seals.

5.23 Verify that all outlet caps, manway covers, plugs, valves, and caps are PROPERLY and SECURLY CLOSED.

5.23.1 A tank car that shows any evidence of leaking must not be offered for transportation.

5.23.2 Reference the attached FRA documents for additional information regarding inspection and operation of manways:

2013-6 RFA Guidelines for Hing

Inspection manway safety

Advisory eyeb

5.24 Place security seal on protective covering and record number on outbound inspection form. Note: Always remove any pre-existing security seals prior to installing new security seals.

5.25 Securely close / cap all valves / hoses on supply truck / tank. Completely wipe hose, clean any drips on tanker, railcar and in unloading area, and properly store hose for next use.

5.26 Disconnect all grounding wires and remove containment pans. Record final tank level(s) if applicable.

5.27 Prepare full railcar for movement offsite

5.27.1 Obtain all necessary outbound paperwork. Paperwork is to remain with loaded railcar at all times.

5.27.1 Manifest / LDR

5.27.1 Bill of Lading
5.27.1 Railroad Specific Paperwork

5.27.2 All railcars must have the proper DOT placards in place prior to shipment. Any non DOT labels markings that were affixed to the railcar during staging / storage (ex. Used oil label) must be removed from the placard area of the railcar prior to shipment.

5.27.3 Inspect the railcar prior to shipment for any leaking or missing valves.
5.27.4 Complete Outbound Railcar checklist and Notify Supervisor tanker is ready for pickup

6.0 UNLOADING OF BULK TANKER RAILCARS

6.1 All Heritage personnel handling the unloading of bulk materials shall wear the required personal protective equipment as outlined in the Health and Safety Plan or location personal protective equipment guidelines for the specific material involved. At a minimum the PPE requirement will include approved safety shoes / boots, and safety glasses.

6.2 Prior to unloading, the proper shipping papers should be carefully checked to properly identify the contents of each railcar. Whenever possible, it is recommended that a sample of the railcar contents be collected and the materials verified by lab analysis prior to unloading into a storage tank in accordance with facility waste analysis plans.

6.3 Complete the pre-unloading / railcar receipt inspection form

6.4 Obtain authorization / required paperwork from your direct supervisor for the tanker unloading

6.5 Check to make sure the blue “STOP” / Caution – Men At Work” sign is on the rail spur or car that you will be unloading. Employees must place on the track signage to give warning to persons approaching from the open ends of the track. This signage can either be a Caution sign or it can read “Tank Car Connected”

6.6 All railcars must have their wheels securely chocked on both sides and the de-railer must be in place before the cars are hooked up. Place secondary containment pans under railcar, ensure than railcar is positioned over spill protection devices, and ensure that all spill control measures are in place.

6.7 Verify that a qualified worker will be present throughout the entire unloading operation and at all times when the car is connected. If it is necessary to discontinue operations before they are completed, close the outlet valve and replace the dome cover and chamber cap. Do not allow tank cars to stand with unloading connections attached after operations are completed.

6.8 A FM/NFPA approved grounding system shall be used between the railcar and the unloading station for any flammable or explosive material. The grounding switch must be in the “off” position before the wire is attached to the railcar. After the wire is securely attached to the railcar, the switch shall be turned to the “on” position before unloading is started and left in this position until the unloading is completed and all connections have been removed.

6.9 Manway cover removal / closure – These are the general steps required for removing covers. Always remember to relieve the tank car of interior pressure before removing the domed manhole cover or outlet valve cap.

- 6.9.1 Screw Type Dome Cover – loosen by using a bar placed between the lug and knob on the covers top. Make two complete turns to expose the ½ inch vent holes in the threaded portion of the dome cover. If escaping vapors are heard, tighten the cover and release the pressure by raising the safety valve.
- 6.9.2 Bolted Dome Cover – unscrew all the nuts one turn and lift the cover to break any adhesion between the cover and the dome’s ring. If there is a sound of escaping pressure, tighten the dome and repeat the venting operation.
- 6.9.3 When no pressure is detected continue loosening dome fixture.

6.10 Move the unloading hose to the top of the railcar

- 6.10.1 Attach pulley and rope to your belt loop and climb to the top of the railcar.
- 6.10.2 Once tied off or otherwise secured, per Heritage Fall Protection guidelines, attach pulley to side of railcar and feed rope through pulley.
- 6.10.3 Have ground personnel tie rope to middle of hose and lift hose to top via rope / pulley.
- 6.10.4 Once at top of railcar, unloader will grab the hose and secure it in the proper position.

6.11 Place the end of the hose in the railcar ensuring the hose reaches the bottom of the tanker.

- 6.11.1 A double block and bleed valve (spool valve) arrangement must be provided on all liquid transfer lines that must be disconnected.

6.12 Connect the other end of the hose to the tank / tanker truck the material is to be transferred to. Verify correct tanker / tank with supervisor prior to connection. Record level of receiving tank prior to transfer if applicable.

6.13 Tie down the hose to assure it staying secure / in place during transfer.

6.14 Place the Manway cover on the hose to further secure and prevent foreign objects from entering.

6.15 Turn on the pump on the tanker truck.

6.16 Continually monitor the level of the tank / tanker truck / railcar to prevent overflowing. Monitor surrounding area for any leaks / spills.
- 6.16.1 Sufficient outage must be left in tank to allow for possible expansion. Refer to applicable regulations for correct outage for the commodity loaded.
- 6.16.2 Do not exceed maximum load limit

6.17 When loading / unloading is complete turn off pump.

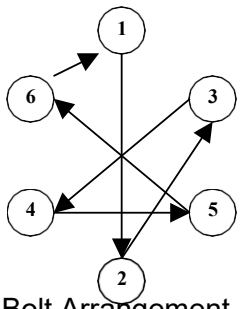
6.18 When pumping is complete, signal operator you are ready to remove hose

6.19 Loosen hose tie downs and slowly remove hose from tanker / material. Hose should be cleaned as it is removed. Dispose of wipes in proper waste accumulation containers.

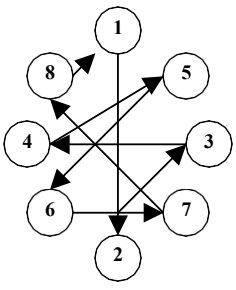
6.20 Reopen vacuum valve to purge line and then reclose vacuum line.

6.21 Remove all tie downs, cap hose, and lower hose to the ground.

6.22 Close and Seal Manway Covers
- 6.22.1 Clean off any product, debris, or dirt/ residue and inspect the condition of the cover gasket and sealing edge of the Manway ring for sealability. *Replace if defects noted. Always verify that gasket is appropriate for the type of railcar and material when replacing. Replace with flange (Pre-seated) designed gasket whenever possible to assure the gasket will not shift during the manway closure process.
- 6.22.2 Close cover and center so gasket is in full contact with the sealing edge of the Manway ring.
- 6.22.3 Swing all cover eyebolts to a vertical position and hand tighten the nuts. Check again for proper gasket sealing.
- 6.22.4 Use an 18” (max) wrench handle for tightening bolts
- 6.22.5 Snug up nuts (about ½ turn at a time) going from side to side as shown:



6 Bolt Arrangement



8 Bolt Arrangement

Continue tightening in above sequence or in rotation until all nuts feel securely and evenly tightened.

6.23 After the cover is bolted in place and all nuts tightened, check hinge pin for looseness. If pin shows evidence of binding, the gasket may not be sealed properly and leakage could occur. If this condition exists notify your supervisor for additional instruction.

6.24 Verify that all outlet caps, manway covers, plugs, valves, and caps are PROPERLY and SECURLY CLOSED.

6.25 Securely close / cap all valves / hoses on receiving truck / tank and shut off PTO / pump.

6.26 Completely wipe hose, clean any drips on tanker, railcar and in unloading area, and properly store hose for next use.
- 6.26.1 A tank car that shows any evidence of leaking must not be offered for transportation.

6.27 Disconnect all grounding wires and remove containment pans. Record final tank level(s) if applicable.

6.28 Prepare empty railcar for movement offsite
- 6.28.1 Clean out railcar per established Heritage procedures
- 6.28.2 Verify Railcar is empty (.3% of total volume) or 60 gallons for a 20,000 gallon tank – 75 gallons for a 25,000 gallon tank.
- 6.28.3 Re-close manway per section 6.22 above
- 6.28.4 Complete “outbound railcar” inspection form
- 6.28.5 Place security seal on manway and record number on outbound inspection form
- 6.28.6 Notify supervisor railcar is ready for shipment.

SOP Revision History

Revision	Date	Changes Summary
Revision 0	7/19/99	New
Revision 1	12/26/07	SOP number change Unknown
Revision 2	2-1-09	Complete Rewrite
Revision 3	2-24-10	Updates to 5.22 and 5.24 to better detail manway closure requirements and security device usage. Combined outbound inspection forms (pg 15).
Revision 4	3-2-10	Updated 5.20.1 & 6.22.1 to include gasket replacement recommendations. Added inspection form for arrival of empty railcars.
Revision 5	10-10-11	Added sentence and picture to 5.27.2 and added removal of non-dot marking to outbound checklist – item 14.
Revision 6	4-15-14	Added language to section 5.5
Revision 7	6-19-15	Added OTMA reg guidance to section 3 and changed wt. limit language to 5.15.2
Revision 8	5-10-16	Added additional FRA information in reference section
Revision 9	10-6-16	Added additional FRA information in 5.23.2
Revision 10	3-22-17	Added line 19 to outbound tanker inspection checklist

Appendix A – Inspection Forms
Appendix B – Tank Car – General Information

Heritage Daily Rail Spur Inspection (Inspection Log for Waste Railcars)

Date / Time of Inspection	Railcar / Trailer #	Material(s) Staged	Date of Arrival	Date of Departure	Time of Loading / Unloading	Leaking?	Security Measures in Place	DOT Placards present	Inspection Current	Inspected By	Comments
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		
						Y / N / NA	Y / N / NA	Y / N / NA	Y / N		

Heritage Railcar Inspection - Prior to unloading inspection

Tank Car Inspection Checklist - Upon Arrival - Full

Date:_____Tank Car No. _____

Contents: _____

Inspector:_____Unloader:_____Doc #: _____

	Inspector's initials
1. Blue "Caution Men At Work" Sign on Track	_____
2. Hand brake set, wheels chocked, derail set	_____
3. Tank car bonded an/or grounded (if applicable)	_____
4. Placards on all four sides	_____
5. All valve closed with no leaks prior to opening	_____
6. Examine all fittings, seals, and gaskets	_____
7. Exterior condition of tank	_____
8. Mechanical integrity of car (visual inspection)	_____
9. Railcar exhibits no sign or leaking	_____
10. Belly valve is securely closed	_____
11. All handrails are good condition	_____

Comments/Problems Noted:
If Railcar has a problem or defect requiring corrective action please explain below.
(Include actions taken to correct issue, corrected by, supervisor initial, and date corrected)

Signature_____ Inspection date _____

Heritage Railcar Unloading Sheet

Manifest #:_____

Manifested Volume: _____

Estimated Transfer Loads: _____
(Manifested gallons / 5500)

HES Doc #: _____

QAQC Density: _____

Load#	1	2	3	4	5
Unit# Used					
Unloaded into					
Gross Weight					
Tare Weight					
Net Weight					
Start Level					
Start Time					
Stop Level					
Stop Time					

Total Gallons of all Transfers: _____

Heritage Railcar Inspection – Receipt of Empty Car

Tank Car Inspection Checklist - Upon Arrival – Empty

***Verify proper chocking and signage is in place prior to inspection**

Car #	Man Way	Valve Box / Valves	Bottom Caps	Date & Time	Comments	Signature

*If Railcar has a problem or defect requiring corrective action please explain in comments above and do not begin loading until actions have been taken to correct issue

Heritage Railcar Inspection - Prior to Shipping Outbound
Tank Car Inspection Checklist – Outbound Railcar

Date:_____Tank Car No._____Prior Contents: _____

Seal #(s):_____

		Initial Below	
		Inspector 1	Inspector 2
1	Within maximum load limit		
2	Correct outage observed		
3	Valves with lock pins are closed and secure		
4	All unloading connections/hose/fittings are removed		
5	Bottom outlet cap tightened and secured with a 36" wrench		
6	Steam coil inlet and outlet caps are hanging (if applicable)		
7	Manway gasket is in good condition, replace if necessary		
8	Manway cover is closed on seated gasket, and security seal is in place		
9	Manway bolts tightened with wrench using star pattern (torque tight)		
10	*Under protective housing*, valves are closed and plugs/caps/nuts wrench tight		
11	Safety relief vent / valve checked (replace frangible disk if needed)		
12	Protective housing is secured in place with lock pin and security seal		
13	All four sides are properly placarded and stenciling legible		
14	All non-DOT placards / markings (i.e. used oil) removed		
15	All tank car safety / inspection test dates are current		
16	Grounding / Bonding devices removed		
17	Under frame checked for wear plates, springs, loose equipment, railings, etc.		
18	Exterior is clean and free of spills or residue		
19	Tank car is equipped with a (double-shelf) vertical restraint coupler		

The chocks and blue "Caution" sign should not be removed until the railcar is ready for pick-up.

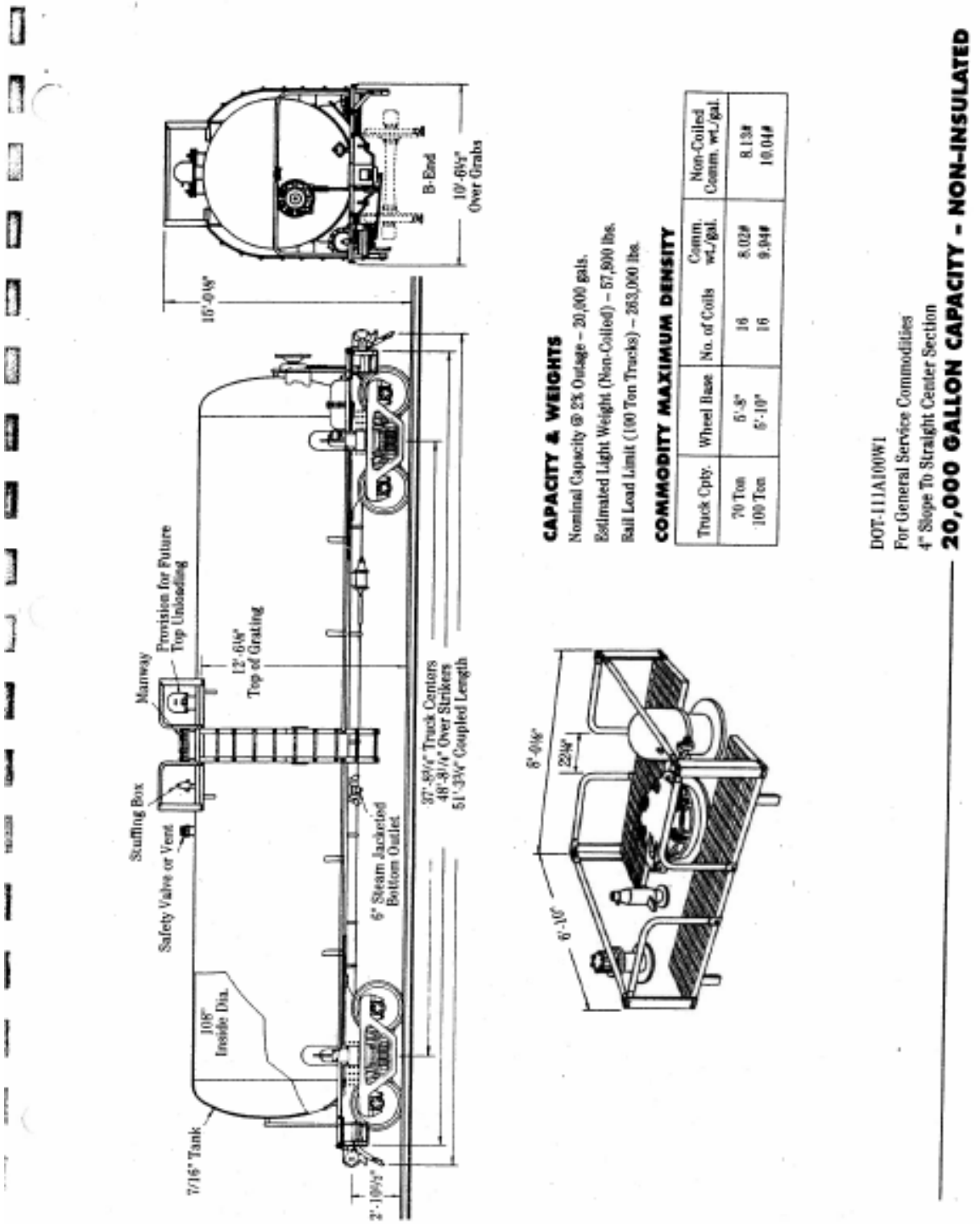
Inspector 1 from above: Printed Name: _____Signature: _____

Inspector 2 from above: Printed Name: _____Signature: _____

*If Railcar has a problem or defect requiring corrective action please explain below:
(Include actions taken to correct issue, corrected by, supervisor initial, and date corrected)

Supervisor's Signature_____ Date _____

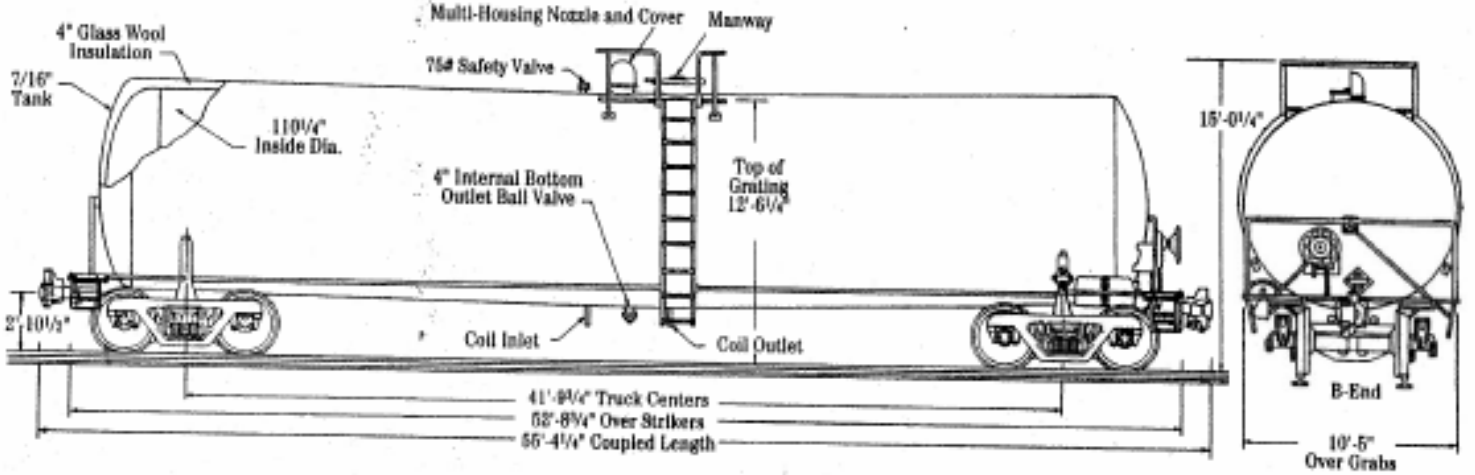
Appendix B – Tank Car – General Information

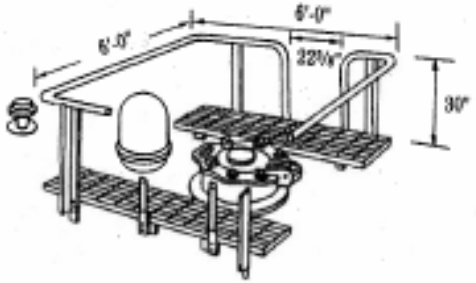


23,589 GALLON CAPACITY – INSULATED – EXTERIOR COILED (v. 1)

DOT-111A100W1

For General Service Commodities





CAPACITY & WEIGHTS

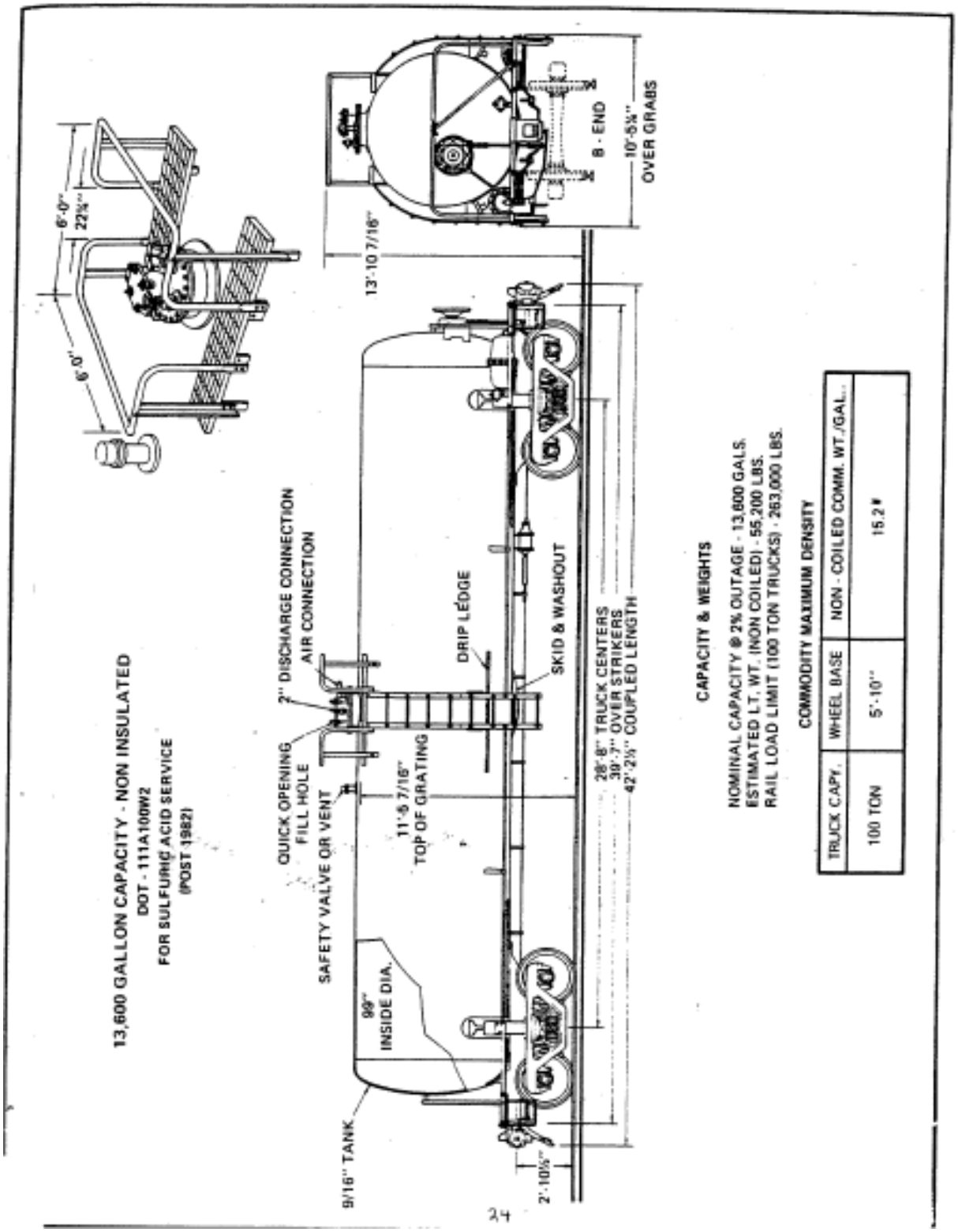
Net Capacity @ 2% Outage – 23,117 gals.

Estimated Light Weight – 71,500 lbs.

Rail Load Limit (100 Ton Trucks) – 263,000 lbs.

COMMODITY MAXIMUM DENSITY

Truck Cpty.	Wheel Base	No. of Coils	Comm. wt./gal.
100 Ton	5'-10"	12L-5"	8.28#


13,600 GALLON CAPACITY - NON INSULATED
DOT - 111A100W2
FOR SULFURIC ACID SERVICE
(POST 1982)
6'-0"
22¾"
6'-0"
13'-10 7/16"
8 - END
10'-5¾"
OVER GRABS
2" DISCHARGE CONNECTION
AIR CONNECTION
QUICK OPENING
FILL HOLE
SAFETY VALVE OR VENT
11'-5 7/16"
TOP OF GRATING
DRIP LEDGE
SKID & WASHOUT
28'-8" TRUCK CENTERS
39'-3" OVER STRIKERS
42'-2½" COUPLED LENGTH
99"
INSIDE DIA.
9/16" TANK
2'-10½"
CAPACITY & WEIGHTS
NOMINAL CAPACITY @ 2% OUTAGE - 13,600 GALS.
ESTIMATED LT. WT. (NON COILED) - 55,200 LBS.
RAIL LOAD LIMIT (100 TON TRUCKS) - 263,000 LBS.
COMMODITY MAXIMUM DENSITY
TRUCK CAPY.
WHEEL BASE
NON - COILED COMM. WT./GAL.
100 TON
5'-10"
15.2#
24

33,687 GALLON CAPACITY - INSULATED

DOT-105J300W

For Liquefied Petroleum Gas, Anhydrous Ammonia, Propane & Butane Service

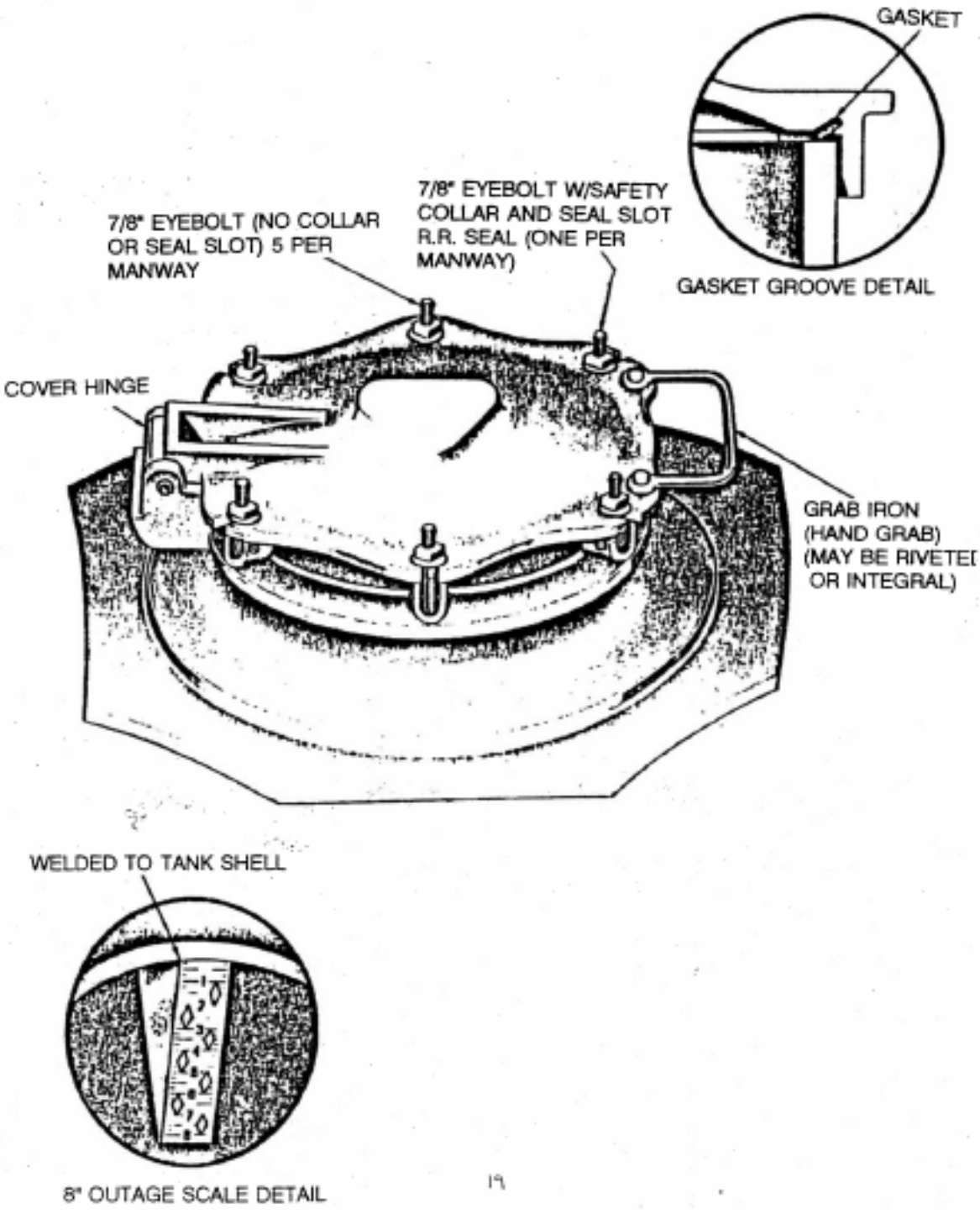
CAPACITY & WEIGHTS

Net Capacity – 33,687 gals.
Estimated Light Weight – 86,800 lbs.
Rail Load Limit (100 Ton Trucks) – 263,000 lbs.

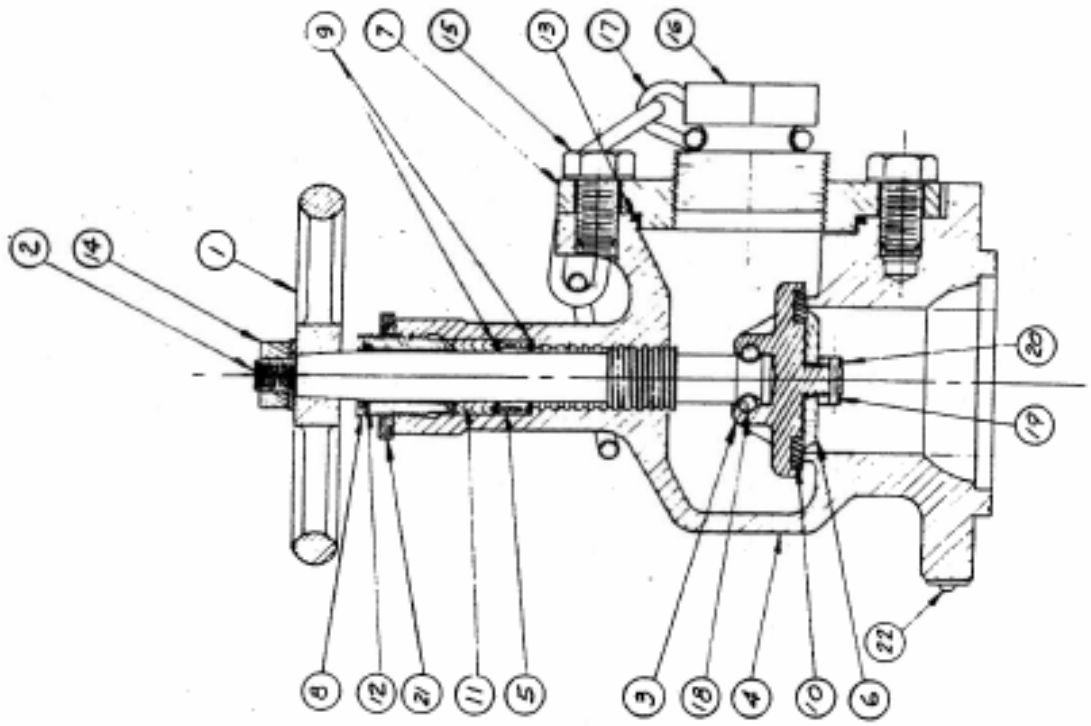
COMMODITY MAXIMUM DENSITY

Truck Cpty.	Wheel Base	Commodity Density
100 Ton	5'-10"	58.6% Max Fill Density

20" I.D. HINGED & BOLTED MANWAY W/FLUED NOZZLE



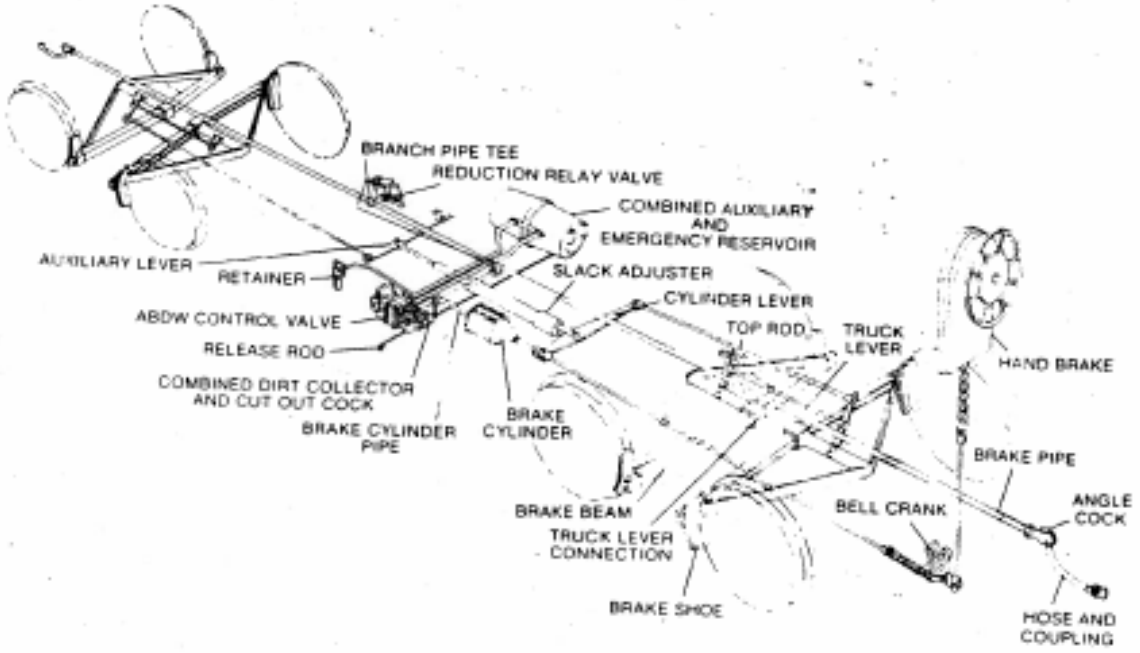
19



ITEM NO.	PART NAME
1	HANDWHEEL
2	STEM
3	GASKET RETAINER
4	BODY
5	SPRING
6	RETAINER COVER
7	OUTLET FLANGE
8	PACKING SCREW
9	PACKING WASHER (TOP & BOTTOM)
10	SEAT SEAL
11	PACKING
12	STEM SEAL
13	"O" RING OUTLET
14	HANDWHEEL NUT, WASHER
15	BOLT & LOCK WASHER
16	OUTLET PLUG
17	CHAIN
18	STEM RETAINER, 2 NUTS
19	COVER RETAINER
20	RETAINER NUT
21	PACKING LOCK NUT
22	NAMEPLATE

30

AB TYPE AIR BRAKE EQUIPMENT FOUNDATION BRAKE RIGGING



When handbrake manually set on cars equipped with unit brake beam, brakes will be set on both ends of the car.

As part of your inspection, you should operate the handbrake and make sure the brakes actually engage and then disengage when the handbrake is released.

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APPENDIX J-U

EXAMPLE INVENTORY REPORT FOR EMERGENCY RESPONDERS

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Facility: 15540 HERITAGE ENVIRONMENTAL SERVICES COOLIDGE, AZ — **Facility Total** **Count:** 3,812 **Gal:** 282,124

Location: 250 AREA - EAST OF TANKS — **Location Total** **Count:** 112 **Gal:** 10,765

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	8	1,600
UN0000	NON-DOT REGULATED MATERIAL	None	171	7	1,400
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	3	90
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	400
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	3	455
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	250
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	29	1,740
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	8	1,455
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	12	570
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	85
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	15	1,065
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	10
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	85
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	250
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	30
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	250
UN0000	NON-DOT REGULATED MATERIAL	None	171	2	75
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	9	785
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	5

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 300 AREA - HAZ ROLL-OFF/SOLIDS AREA **Location Total Count:** 248 **Gal:** 20,900

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	4	800
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	1	200
UN1950	AEROSOLS	2.1	126	2	110
UN1950	AEROSOLS (UNIVERSAL WASTE - AEROSOL CANS)	2.1	126	3	600
UN1263	PAINT RELATED MATERIAL	3	128	1	15
UN1263	PAINT	3	128	1	200
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	3	165
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	3	165
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	8	440
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	3	600
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	55
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	2	400
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	200
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	3	85
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	3	165
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	7	345
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	1	20
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	1	55
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	1	20
UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	8	154	1	95
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	110
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	24	2,235
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	7	385
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	5	275
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	20
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	20
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	5	275
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	13	1,195
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	3	165

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 300 AREA - HAZ ROLL-OFF/SOLIDS AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	95
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	20
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	32	2,485
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	22	1,860
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	22	1,780
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	23	1,550
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	13	715
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	11	2,200
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	55
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	95
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	30
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	20
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	55
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	5
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	200
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	200

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 350 AREA - NON-HAZ CONTAINERS **Location Total Count:** 25 **Gal:** 4,545

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	7	1,400
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	4	195
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	6	1,200
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	2	400
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	200
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	1	200
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	1	200
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	3	750

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 400 AREA - EAST CONTAINER STORAGE AREA **Location Total Count:** 85 **Gal:** 12,502

UNNA	DOT	Haz Class	ERG	Count	Gal
UN2857	REFRIGERATING MACHINES	2.2	126	2	400
UN3480	LITHIUM ION BATTERIES (UNIVERSAL WASTE - BATTERIES)	9B	147	2	110
UN3480	LITHIUM ION BATTERIES (UNIVERSAL WASTE - BATTERIES)	9B	147	2	110
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	2	400
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	9	1,655
UN2800	BATTERIES, WET, NON-SPILLABLE	8	154	4	615
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	5	275
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	200
NA0000	UNIVERSAL WASTE- LAMPS	None	171	3	93
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	2	26
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	4	655
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	10
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	11	2,200
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	200
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	9	1,800
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	200
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	3	310
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	4	800
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	3	600
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	60
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	400
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	4	128
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	4	800
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	400

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 500 AREA - DEPACK AREA **Location Total Count:** 100 **Gal:** 3,448

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1057	LIGHTERS	2.1	115	1	5
UN1057	LIGHTERS	2.1	115	2	10
UN1075	PETROLEUM GASES, LIQUEFIED	2.1	115	1	1
UN1978	PROPANE	2.1	115	7	90
UN3161	LIQUEFIED GAS, FLAMMABLE, N.O.S.	2.1	115	1	55
UN3501	CHEMICAL UNDER PRESSURE, FLAMMABLE N.O.S.	2.1	115	1	15
UN1013	CARBON DIOXIDE	2.2	120	1	5
UN1013	CARBON DIOXIDE	2.2	120	1	1
UN1013	CARBON DIOXIDE	2.2	120	1	5
UN1013	CARBON DIOXIDE	2.2	120	4	20
UN1006	ARGON, COMPRESSED	2.2	121	1	5
UN1006	ARGON, COMPRESSED	2.2	121	1	5
UN1046	HELIUM, COMPRESSED	2.2	121	2	2
UN1002	AIR, COMPRESSED	2.2	122	1	15
UN1072	OXYGEN, COMPRESSED	2.2	122	1	5
UN1950	AEROSOLS	2.1	126	3	90
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	7	1,060
UN1950	AEROSOLS (UNIVERSAL WASTE - AEROSOL CANS)	2.1	126	1	55
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	6	1,200
UN1950	AEROSOLS	2.1	126	2	60
UN1044	FIRE EXTINGUISHERS	2.2	126	1	20
UN1044	FIRE EXTINGUISHERS	2.2	126	1	15
UN1044	FIRE EXTINGUISHERS	2.2	126	1	55
UN1044	FIRE EXTINGUISHERS	2.2	126	1	200
UN1078	REFRIGERANT GASES, N.O.S.	2.2	126	3	3
UN1078	REFRIGERANT GASES, N.O.S.	2.2	126	2	2
UN1078	REFRIGERANT GASES, N.O.S.	2.2	126	3	125
UN1956	COMPRESSED GAS, N.O.S.	2.2	126	16	24
UN1956	COMPRESSED GAS, N.O.S.	2.2	126	6	14

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 500 AREA - DEPACK AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1956	COMPRESSED GAS, N.O.S.	2.2	126	5	5
UN2857	REFRIGERATING MACHINES	2.2	126	1	200
UN3159	1,1,1,2-TETRAFLUOROETHANE	2.2	126	1	1
UN3163	LIQUEFIED GAS, N.O.S.	2.2	126	8	8
UN1203	GASOLINE	3	128	1	5
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	5
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	5
UN0000	GENERIC WASTESTREAM - SEE MANIFEST FOR PROPER D.O.T. DESCRIPTION	None	171	1	55
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	2	2

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 550 AREA - 550 AREA **Location Total Count:** 28 **Gal:** 186

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0161	POWDER, SMOKELESS	1.3C	112	1	5
UN0336	FIREWORKS	1.4G	114	1	5
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN1362	CARBON, ACTIVATED	4.2	133	2	10
UN3183	SELF-HEATING LIQUID, ORGANIC, N.O.S.	4.2	135	1	5
UN1396	ALUMINUM POWDER, UNCOATED	4.3	138	1	5
UN1402	CALCIUM CARBIDE	4.3	138	1	5
UN1415	LITHIUM	4.3	138	1	5
UN1428	SODIUM	4.3	138	2	10
UN1436	ZINC POWDER	4.3	138	1	5
UN3129	WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.	4.3	138	1	5
UN3132	WATER-REACTIVE SOLID, FLAMMABLE, N.O.S.	4.3	138	1	5
UN3094	CORROSIVE LIQUIDS, WATER-REACTIVE, N.O.S.	8	138	1	5
UN2031	NITRIC ACID	8	157	1	5
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	3	15
UN2809	MERCURY	8	172	2	10
UN2809	MERCURY	8	172	7	81

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA **Location Total Count:** 706 **Gal:** 31,070

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1950	AEROSOLS	2.1	126	1	5
UN1028	DICHLORODIFLUOROMETHANE	2.2	126	3	165
UN1170	ETHANOL SOLUTIONS	3	127	1	200
NA1993	DIESEL FUEL	3	128	1	55
NA1993	FUEL OIL	3	128	1	55
NA1993	DIESEL FUEL	3	128	1	15
NA1993	FUEL OIL	3	128	1	55
NA1993	FUEL OIL	3	128	1	55
NA1993	DIESEL FUEL	3	128	1	55
NA1993	DIESEL FUEL	3	128	2	110
UN1133	ADHESIVES	3	128	5	25
UN1133	ADHESIVES	3	128	4	20
UN1202	DIESEL FUEL	3	128	7	385
UN1202	DIESEL FUEL	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	85
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	10	550
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	13	715
UN1203	GASOLINE	3	128	1	30
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1203	GASOLINE	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	9	495
UN1263	PAINT	3	128	1	5
UN1263	PAINT	3	128	1	5
UN1263	PAINT RELATED MATERIAL	3	128	5	210
UN1263	PAINT RELATED MATERIAL	3	128	1	55

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1263	PAINT RELATED MATERIAL	3	128	1	85
UN1263	PAINT RELATED MATERIAL	3	128	1	55
UN1263	PAINT	3	128	1	5
UN1263	PAINT RELATED MATERIAL	3	128	2	100
UN1263	PAINT RELATED MATERIAL	3	128	1	55
UN1263	PAINT RELATED MATERIAL	3	128	3	165
UN1263	PAINT	3	128	1	20
UN1263	PAINT RELATED MATERIAL	3	128	6	330
UN1268	PETROLEUM DISTILLATES, N.O.S.	3	128	1	20
UN1268	PETROLEUM DISTILLATES, N.O.S.	3	128	1	55
UN1863	FUEL, AVIATION, TURBINE ENGINE	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	73	3,720
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	5	200
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	6	305
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	69	2,995
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	3	65
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	8	290
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	5	480
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	22	1,185
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	5
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	110
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	30	750
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	18	765
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	11	180
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	9	675
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	10	380
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	95
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	9	465
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	17	605

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	110
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	4	195
UN1210	PRINTING INK	3	129	1	55
UN1210	PRINTING INK	3	129	1	55
UN1210	PRINTING INK	3	129	1	5
UN1210	PRINTING INK	3	129	1	55
UN1219	ISOPROPANOL	3	129	1	5
UN1219	ISOPROPANOL	3	129	1	55
UN1219	ISOPROPANOL	3	129	7	150
UN1219	ISOPROPANOL	3	129	4	115
UN1219	ISOPROPANOL	3	129	1	5
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	5
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	2	110
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	5
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	55
UN3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	131	1	5
UN3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	131	2	400
UN3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	131	2	400
UN2334	ALLYLAMINE	6.1	131	1	5
UN2668	CHLOROACETONITRILE	6.1	131	1	5
UN3488	TOXIC BY INHALATION LIQUID, FLAMMABLE, CORROSIVE, N.O.S.	6.1	131	1	5
UN1198	FORMALDEHYDE, SOLUTIONS, FLAMMABLE	3	132	1	5
UN2733	POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.	3	132	1	15
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	3	15
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	30
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	2	110
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	5
UN2438	TRIMETHYLACETYL CHLORIDE	6.1	132	1	5
UN2734	POLYAMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.	8	132	1	5

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN2920	CORROSIVE LIQUIDS, FLAMMABLE, N.O.S.	8	132	1	5
UN2920	CORROSIVE LIQUIDS, FLAMMABLE, N.O.S.	8	132	1	15
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	1	15
UN3090	LITHIUM METAL BATTERIES	9B	138	1	5
UN3090	LITHIUM METAL BATTERIES	9B	138	1	5
UN3480	LITHIUM ION BATTERIES	9B	147	1	5
UN3480	LITHIUM ION BATTERIES	9B	147	4	95
UN3480	LITHIUM ION BATTERIES (UNIVERSAL WASTE - BATTERIES)	9B	147	1	55
UN3480	LITHIUM ION BATTERIES	9B	147	1	5
UN3480	LITHIUM ION BATTERIES (UNIVERSAL WASTE - BATTERIES)	9B	147	2	85
UN3481	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	9B	147	1	5
UN3481	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	9B	147	3	15
UN3481	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT	9B	147	1	1
UN3226	SELF-REACTIVE SOLID TYPE D	4.1	149	1	5
UN3249	MEDICINE, SOLID, TOXIC, N.O.S.	6.1	151	1	2
UN3249	MEDICINE, SOLID, TOXIC, N.O.S.	6.1	151	1	2
UN3249	MEDICINE, SOLID, TOXIC, N.O.S.	6.1	151	3	9
UN1687	SODIUM AZIDE	6.1	153	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	15
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	9	45
UN2966	THIOGLYCOL	6.1	153	1	5
UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	8	153	2	210
UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	8	153	1	5
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	2	30
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	3	25
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	15

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	200
UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	8	153	1	85
UN2811	TOXIC SOLIDS, ORGANIC, N.O.S.	6.1	154	1	5
UN2693	BISULFITES, AQUEOUS SOLUTIONS, N.O.S.	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	200
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	3	25
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	55
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	2	60
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	3	165
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID (UNIVERSAL WASTE- BATTERIES)	8	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	2	60
UN2800	BATTERIES, WET, NON-SPILLABLE	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	1	15
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	9	43
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	2	10
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID (UNIVERSAL WAS	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	2	110

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	1	5
UN3244	SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.	8	154	1	55
UN3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	8	154	1	5
UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.	8	154	1	15
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	2	35
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	5
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	5
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	30
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	5
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	70
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	3	165
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	11	650
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	13	185
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	20
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	4	65
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	110
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	6	80
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	5
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	15
NA0000	BATTERIES, DRY, SEALED, N.O.S.	None	154	1	5
NA0000	BATTERIES, DRY, SEALED, N.O.S.	None	154	1	5
UN3080	ISOCYANATE SOLUTIONS, TOXIC, FLAMMABLE, N.O.S.	6.1	155	1	20
UN1789	HYDROCHLORIC ACID	8	157	1	55
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	3	115
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	30
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	55
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	2	60
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	55
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	85

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	1	5
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	1	2
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	8	2,000
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	95
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	6	1,500
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	5	10
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	2	110
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	1	55
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	9	87
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	1	30
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	5	275
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	8	440
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	5
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	5
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	5
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	10
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	2	60
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	2	70
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	30
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	3	260
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	85
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	2	285
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	3	165
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	200
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	5
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	3	600
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 600 AREA - CENTRAL CONTAINER STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	10
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	5	305
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	15
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	15
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	5
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	3	15
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	10
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	3	218
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	3	15
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	15
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	5
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	15
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	3	21

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 700 AREA - OIL AREA **Location Total Count:** 268 **Gal:** 31,870

UNNA	DOT	Haz Class	ERG	Count	Gal
NA0000	NON-DOT/NON-RCRA REGULATED SOLID MATERIAL	None	171	2	110
NA0001	NON-REGULATED WASTE, SOLID	None	171	10	550
NA0001	NON-REGULATED MATERIAL, SOLID	None	171	1	30
NA0001	NON-REGULATED WASTE, SOLID	None	171	10	400
NA0001	NON-REGULATED MATERIAL, SOLID	None	171	1	55
NA0001	NON-REGULATED WASTE, SOLID	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	5	275
UN0000	NON-DOT REGULATED MATERIAL USED OIL FILTERS	None	171	4	615
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	14	770
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	14	775
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	9	690
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	38	2,320
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	3	165
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	5	275
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON-DOT REGULATED MATERIAL USED OIL FILTERS	None	171	9	1,800
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	3	310
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	80	13,650
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	26	4,555
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	19	3,800
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	8	340
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA **Location Total Count:** 339 **Gal:** 7,862

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1155	DIETHYL ETHER	3	127	1	5
UN1866	RESIN SOLUTION	3	127	2	10
UN1866	RESIN SOLUTION	3	127	1	30
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	20
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	30
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	4	75
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	5
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	6	100
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	70
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	3	50
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	10
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	3	115
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	5	100
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	5
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	20
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	5
UN1307	XYLENES	3	130	1	5
UN1230	METHANOL	3	131	1	5
UN1230	METHANOL	3	131	1	15
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	3	115
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	4	145
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	5
UN1992	FLAMMABLE LIQUIDS, TOXIC, N.O.S.	3	131	1	55
UN3286	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	3	131	1	55
UN1239	METHYL CHLOROMETHYL ETHER	6.1	131	1	5
UN2929	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S.	6.1	131	1	5
UN1198	FORMALDEHYDE, SOLUTIONS, FLAMMABLE	3	132	1	5
UN1296	TRIETHYLAMINE	3	132	1	5

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	55
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	2	30
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	15
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	2	40
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	30
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	2	10
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	15
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	5
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	2	10
UN2438	TRIMETHYLACETYL CHLORIDE	6.1	132	1	5
UN2789	ACETIC ACID, GLACIAL	8	132	1	15
UN2789	ACETIC ACID, GLACIAL	8	132	1	5
UN2789	ACETIC ACID, GLACIAL	8	132	1	5
UN2920	CORROSIVE LIQUIDS, FLAMMABLE, N.O.S.	8	132	2	35
UN2920	CORROSIVE LIQUIDS, FLAMMABLE, N.O.S.	8	132	1	15
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	2
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN1325	FLAMMABLE SOLIDS, ORGANIC, N.O.S.	4.1	133	1	5
UN1328	HEXAMETHYLENETETRAMINE	4.1	133	1	5
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	1	5
UN2921	CORROSIVE SOLIDS, FLAMMABLE, N.O.S.	8	134	1	5
UN1830	SULFURIC ACID	8	137	1	95
UN1436	ZINC POWDER	4.3	138	1	5
UN1479	OXIDIZING SOLID, N.O.S.	5.1	140	1	5
UN1479	OXIDIZING SOLID, N.O.S.	5.1	140	1	5
UN1479	OXIDIZING SOLID, N.O.S.	5.1	140	2	10
UN1479	OXIDIZING SOLID, N.O.S.	5.1	140	1	5
UN1479	OXIDIZING SOLID, N.O.S.	5.1	140	1	20

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1493	SILVER NITRATE	5.1	140	2	20
UN1500	SODIUM NITRITE	5.1	140	1	20
UN2014	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS	5.1	140	3	25
UN2014	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS	5.1	140	1	200
UN3085	OXIDIZING SOLID, CORROSIVE, N.O.S.	5.1	140	1	5
UN3098	OXIDIZING LIQUID, CORROSIVE, N.O.S.	5.1	140	5	255
UN3098	OXIDIZING LIQUID, CORROSIVE, N.O.S.	5.1	140	7	90
UN3098	OXIDIZING LIQUID, CORROSIVE, N.O.S.	5.1	140	4	230
UN3098	OXIDIZING LIQUID, CORROSIVE, N.O.S.	5.1	140	1	200
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	55
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	5
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	15
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	2	10
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	4	180
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	16	480
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	55
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	55
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	1	55
UN3356	OXYGEN GENERATOR,CHEMICAL	5.1	140	1	55
UN3084	CORROSIVE SOLIDS, OXIDIZING, N.O.S.	8	140	1	5
UN3093	CORROSIVE LIQUIDS, OXIDIZING, N.O.S.	8	140	3	15
UN3093	CORROSIVE LIQUIDS, OXIDIZING, N.O.S.	8	140	1	5
UN1463	CHROMIUM TRIOXIDE, ANHYDROUS	5.1	141	1	5
UN3099	OXIDIZING LIQUID, TOXIC, N.O.S.	5.1	142	1	5
UN3106	ORGANIC PEROXIDE TYPE D, SOLID	5.2	145	1	2
UN3107	ORGANIC PEROXIDE TYPE E, LIQUID	5.2	145	1	2
UN3108	ORGANIC PEROXIDE TYPE E, SOLID	5.2	145	1	5
UN3108	ORGANIC PEROXIDE TYPE E, SOLID	5.2	145	1	5
UN3109	ORGANIC PEROXIDE TYPE F, LIQUID	5.2	145	2	202

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN3110	ORGANIC PEROXIDE TYPE F, SOLID	5.2	145	1	2
UN3103	ORGANIC PEROXIDE TYPE C, LIQUID	5.2	146	1	5
UN1641	MERCURY OXIDE	6.1	151	1	5
UN1707	THALLIUM COMPOUNDS, N.O.S.	6.1	151	1	15
UN3288	TOXIC SOLID, INORGANIC, N.O.S.	6.1	151	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	15
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	30
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	1	5
UN2810	TOXIC, LIQUIDS, ORGANIC, N.O.S.	6.1	153	2	10
UN1903	DISINFECTANTS, LIQUID, CORROSIVE N.O.S.	8	153	1	30
UN2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	153	1	5
UN2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S.	8	153	1	5
UN3066	PAINT RELATED MATERIAL	8	153	1	5
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	2	10
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	5
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	5
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	4	245
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	15
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	1	30
UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	8	153	2	30
UN2811	TOXIC SOLIDS, ORGANIC, N.O.S.	6.1	154	1	5
UN2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	6.1	154	3	15
UN2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	6.1	154	1	5
UN2927	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.	6.1	154	1	5
UN2928	TOXIC SOLIDS, CORROSIVE, ORGANIC, N.O.S.	6.1	154	1	5
UN1759	CORROSIVE SOLIDS, N.O.S.	8	154	1	55
UN1760	CORROSIVE LIQUIDS, N.O.S.	8	154	2	10

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1760	CORROSIVE LIQUIDS, N.O.S.	8	154	1	15
UN1760	CORROSIVE LIQUIDS, N.O.S.	8	154	1	30
UN1760	CORROSIVE LIQUIDS, N.O.S.	8	154	2	20
UN1791	HYPOCHLORITE SOLUTIONS	8	154	5	110
UN1791	HYPOCHLORITE SOLUTIONS	8	154	1	55
UN1823	SODIUM HYDROXIDE, SOLID	8	154	1	5
UN2672	AMMONIA SOLUTION	8	154	1	5
UN2699	TRIFLUOROACETIC ACID	8	154	1	5
UN2922	CORROSIVE LIQUIDS, TOXIC, N.O.S.	8	154	1	5
UN2922	CORROSIVE LIQUIDS, TOXIC, N.O.S.	8	154	1	5
UN3244	SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.	8	154	1	55
UN3244	SOLIDS CONTAINING CORROSIVE LIQUID, N.O.S.	8	154	1	55
UN3259	POLYAMINES, SOLID, CORROSIVE N.O.S.	8	154	1	5
UN3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	8	154	1	30
UN3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	8	154	1	5
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	5	77
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	15
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	20
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	4	85
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	5
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	2	60
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	4	150
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	2	110
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	4	45
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	3	25
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	15
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	55
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	1	30
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	55

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	25
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	10
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	3	75
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	5
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	10
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	1	15
UN3495	IODINE	8	154	1	5
UN3080	ISOCYANATE SOLUTIONS, TOXIC, FLAMMABLE, N.O.S.	6.1	155	1	5
UN2986	CHLOROSILIANES, CORROSIVE, FLAMMABLE, N.O.S.	8	155	1	5
UN1771	DODECYLTRICHLOROSILANE	8	156	1	5
UN1789	HYDROCHLORIC ACID	8	157	1	30
UN1790	HYDROFLUORIC ACID	8	157	1	55
UN1790	HYDROFLUORIC ACID	8	157	1	30
UN2031	NITRIC ACID	8	157	2	10
UN2031	NITRIC ACID	8	157	1	15
UN2031	NITRIC ACID	8	157	1	5
UN2031	NITRIC ACID	8	157	1	5
UN2796	SULFURIC ACID	8	157	1	5
UN1710	TRICHLOROETHYLENE	6.1	160	1	5
UN3089	METAL POWDERS, FLAMMABLE, N.O.S.	4.1	170	1	5
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	4	220
NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.	9	171	1	5
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	1	55
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	15
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	55
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	5
UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.	9	171	1	5
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	7	135
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	2	10

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 800 AREA - WEST NON HAZ STORAGE AREA

UNNA	DOT	Haz Class	ERG	Count	Gal
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	2	20
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	5
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	5
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	3	75
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	3	35
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	1	15
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	4	70
UN0000	NON-DOT REGULATED MATERIAL USED OIL FILTERS	None	171	1	200
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	7	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	7	35
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	1	5
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	10
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	400
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	30
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	3	115
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	15
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	55
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	4	20
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	200
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	1	5
UN2809	MERCURY	8	172	1	15

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 850 AREA - WEST NON HAZ STORAGE AREA OUTSIDE THE BAYS **Location Total Count:** 694 **Gal:** 46,770

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	110
NA0000	NON-DOT/NON-RCRA REGULATED LIQUID MATERIAL	None	171	1	200
NA0000	NON-DOT/NON-RCRA REGULATED LIQUID MATERIAL	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	3	310
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	15	815
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	10	550
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	21	1,095
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	8	360
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	12	660
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	7	285
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	64	2,950
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	18	900
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	5	70
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	6	255
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	5
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	12	910
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	9	1,705
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	11	705
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	4	170
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	7	1,500
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	19	1,500
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	25	1,125
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	12	2,110
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	31	5,330
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	3	310

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 850 AREA - WEST NON HAZ STORAGE AREA OUTSIDE THE BAYS

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	15	900
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	9	1,220
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	8	440
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	8	440
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	8	375
UN0000	NON-DOT REGULATED MATERIAL USED OIL	None	171	1	250
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	1	15
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	3	455
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	3	455
UN0000	SEE UNIFORM HAZARDOUS WASTE MANIFEST (LABPACK)	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	34	1,495
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	3	600
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	4	800
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	42	2,255
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	9	525
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	24	1,120
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	22	1,085
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	30
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	15
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	5	250
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	5

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 850 AREA - WEST NON HAZ STORAGE AREA OUTSIDE THE BAYS

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	16	855
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	28	1,945
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	71	3,655
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	23	895
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	20	1,245
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	6	305
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 900 AREA - AZ 900 AREA STORAGE **Location Total Count:** 384 **Gal:** 30,235

UNNA	DOT	Haz Class	ERG	Count	Gal
NA2212	ASBESTOS	9	171	4	220
NA2212	ASBESTOS	9	171	1	55
NA2212	ASBESTOS	9	171	1	55
NA2212	ASBESTOS	9	171	3	165
NA2212	ASBESTOS	9	171	5	275
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	500
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	2	500
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	8	1,455
UN0000	NON-DOT REGULATED MATERIAL	None	171	1	55
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	110
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	17	2,320
UN0000	NON-DOT REGULATED MATERIAL	None	171	2	110
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	2	110
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	31	1,880
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	23	1,410
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	12	660
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	8	415
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	17	1,130
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	1	200
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	6	280
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	4	220
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	12	660
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	200
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	24	1,325
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	9	395
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	6	330
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	75	5,720
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	1	55
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	13	640

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: 900 AREA - AZ 900 AREA STORAGE

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	17	1,225
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	8	1,020
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	12	1,240
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	22	2,160
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	5	265
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	14	890
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	6	865
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	70
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	4	850
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	1	200

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: DOCK COOL - **Location Total Count:** 209 **Gal:** 15,174

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1950	AEROSOLS	2.1	126	1	55
UN1950	AEROSOLS	2.1	126	1	20
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	6	230
UN3163	LIQUEFIED GAS, N.O.S.	2.2	126	36	36
UN3065	ALCOHOLIC BEVERAGES	3	127	1	10
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	23	1,050
UN1219	ISOPROPANOL	3	129	35	1,665
UN3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	131	7	35
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	11	605
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	2	70
UN3090	LITHIUM METAL BATTERIES	9B	138	2	10
UN3249	MEDICINE, SOLID, TOXIC, N.O.S.	6.1	151	2	10
UN2672	AMMONIA SOLUTION	8	154	1	30
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	8	1,059
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	2	70
UN3080	ISOCYANATE SOLUTIONS, TOXIC, FLAMMABLE, N.O.S.	6.1	155	1	5
NA3077	OTHER REGULATED SUBSTANCES, SOLID, N.O.S.	9	171	1	55
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	30
NA3082	HAZARDOUS WASTE, LIQUID, N.O.S.	9	171	4	404
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	4	145
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	1	5
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	30
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	15	6,655
UN0000	NON-DOT REGULATED MATERIAL USED OIL FILTERS	None	171	2	400
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	110
UN0000	NON-DOT UNIVERSAL WASTE- LAMPS	None	171	6	40
UN0000	NON-DOT REGULATED MATERIAL	None	171	4	170

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: DOCK COOL -

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-HAZARDOUS, NON-DOT REGULATED MATERIAL	None	171	4	705
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	23	1,355

Location: HESC-01 - **Location Total Count:** 1 **Gal:** 7,500

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	7,500

Location: HESC-03 - DW-01 **Location Total Count:** 1 **Gal:** 7,500

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	7,500

Location: OUTB 1 - **Location Total Count:** 1 **Gal:** 200

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	200

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: OUTB 2 - **Location Total Count:** 250 **Gal:** 12,695

UNNA	DOT	Haz Class	ERG	Count	Gal
NA1993	FUEL OIL	3	128	3	165
NA1993	DIESEL FUEL	3	128	6	330
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	32	1,690
UN1263	PAINT RELATED MATERIAL	3	128	5	275
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	124	6,010
NA1993	COMBUSTIBLE LIQUID, N.O.S.	Comb	128	2	110
UN2924	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S.	3	132	1	55
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	55
UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	9	171	4	220
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	2	110
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	18	990
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	37	1,860
UN0000	NON-DOT REGULATED MATERIAL	None	171	15	825

Location: RO-611 - **Location Total Count:** 1 **Gal:** 4,040

UNNA	DOT	Haz Class	ERG	Count	Gal
NA2212	ASBESTOS	9	171	1	4,040

Location: RO-614 - **Location Total Count:** 1 **Gal:** 4,040

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	4,040

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: RS-46 - **Location Total Count:** 1 **Gal:** 7,500

UNNA	DOT	Haz Class	ERG	Count	Gal
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	1	7,500

Location: RS-48 - **Location Total Count:** 1 **Gal:** 7,500

UNNA	DOT	Haz Class	ERG	Count	Gal
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	7,500

Location: STAGING - PROCESS STAGING AREAS **Location Total Count:** 3 **Gal:** 530

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	2	500
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	1	30

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: TRA 155324 - **Location Total Count:** 223 **Gal:** 9,197

UNNA	DOT	Haz Class	ERG	Count	Gal
UN1950	AEROSOLS (UNIVERSAL WASTE - AEROSOL CANS)	2.1	126	1	55
UN1950	AEROSOLS	2.1	126	4	130
UN1950	AEROSOLS, FLAMMABLE, N.O.S.	2.1	126	18	990
UN2857	REFRIGERATING MACHINES	2.2	126	1	200
UN1263	PAINT RELATED MATERIAL	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	38	1,840
UN3248	MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S.	3	131	16	80
UN3175	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.	4.1	133	5	210
UN3139	OXIDIZING LIQUID, N.O.S.	5.1	140	3	165
UN3099	OXIDIZING LIQUID, TOXIC, N.O.S.	5.1	142	1	5
UN3480	LITHIUM ION BATTERIES	9B	147	2	10
UN3480	LITHIUM ION BATTERIES (UNIVERSAL WASTE - BATTERIES)	9B	147	1	200
UN3249	MEDICINE, SOLID, TOXIC, N.O.S.	6.1	151	6	12
UN2811	TOXIC SOLIDS, ORGANIC, N.O.S.	6.1	154	1	5
UN2794	BATTERIES, WET, FILLED WITH ACID	8	154	1	5
UN3028	BATTERIES, DRY, CONTAINING POTASSIUM HYDROXIDE SOLID	8	154	3	15
UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.	8	154	4	240
UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	8	154	4	195
NA3077	HAZARDOUS WASTE, SOLID, N.O.S.	9	171	5	185
UN0000	NON-DOT/NON-RCRA REGULATED	None	171	5	420
UN0000	NON RCRA HAZARDOUS WASTE SOLID	None	171	27	1,555
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	76	2,625

HERITAGE ENVIRONMENTAL SERVICES

Emergency Response Inventory List

Type\Facility\Location: TSD/10 DAY\15540\All Locations

Location: TRA AZ10 - **Location Total Count:** 131 **Gal:** 6,095

UNNA	DOT	Haz Class	ERG	Count	Gal
NA1993	DIESEL FUEL	3	128	6	330
UN1202	DIESEL FUEL	3	128	4	220
UN1203	GASOLINE	3	128	1	55
UN1203	GASOLINE MIXTURE (GASOLINE, WATER)	3	128	16	880
UN1208	HEXANES	3	128	1	55
UN1993	FLAMMABLE LIQUIDS, N.O.S.	3	128	100	4,415
NA1993	COMBUSTIBLE LIQUID, N.O.S.	Comb	128	1	30
UN0000	NON RCRA HAZARDOUS WASTE LIQUID	None	171	2	110

APPENDIX J-V

GUIDELINES FOR QUARTERLY STORM WATER INSPECTIONS

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GUIDELINES FOR QUARTERLY STORM WATER INSPECTIONS

1) Record the date, time, inspector name, and weather conditions during the inspection. The preferred time, but not required time of inspection is shortly after a precipitation event.

2) Visually inspect storm water run-on/runoff structures for structural integrity and proper operation. Schedule repair or maintenance as needed.

3) Visually inspect the fence-line berm surrounding facility in accordance with the hazardous waste permit, Appendix D-A. Schedule repair or maintenance in accordance with the requirements of the permit. (Note: The fence inspection is a monthly requirement in the hazardous waste permit.)

4) Visually inspect the processing and loading/unloading areas for excessive solids and trash in the sump areas. Note if there is visual evidence of pollutants such as unusual coloration, excessive solids, or other visual indicators of pollutants.

5) Visually inspect storm water (standing water/puddles and rainwater in sumps) for evidence of oil sheen, excessive solids accumulation that would result in excessive TSS, evidence of pollutants based on odor, color, or other visual indicators. Note clarity of the water.

6) From the Roll-off Container Storage Area and the Bulk Loading Area (Tanker and Rail), on an annual basis, collect representative samples of the accumulated precipitation for off-site laboratory analysis [pH and RCRA metals (EPA Method 200.7 or equivalent) for the Roll-off Container Storage Area; pH, COD, oil & grease, BTEX, chloroform, methylene chloride, and tetrachloroethylene for the Bulk Loading Area (Tanker and Rail)]. The frequency of sampling may be increased if visual evidence indicates the potential for pollutants that may impact storm water in the areas. (Response to spills/releases in containment areas is conducted as described in the facility RCRA Contingency Plan.)

7) Inspect each parking area (personal and commercial) for proper operation and for accumulation of solids and trash that could impact storm water.

8) Check areas for significant erosion. Schedule repair or maintenance as needed.

9) Note condition of grassy/desert scrub areas and whether not areas have been disturbed by facility operations to the extent that sediments would be impacting storm water. Visual indications would be evidence of muddy water, excessive erosion, or other similar conditions.

10) Confirm bulk containers are tarped, even if empty.

11) Confirm no blending or bulking operations are being conducted outdoors during rain events.

12) Visually confirm presence and apparent condition of emergency spill response supplies at the processing and loading/unloading areas. Note any deficiencies or restocking necessary.