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ATTACHMENTS

PART I – GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The Permittee is allowed to store and treat hazardous waste in accordance with the conditions of this Permit. Any additional storage, treatment, and/or disposal of hazardous waste not specifically authorized in this Permit is prohibited. Subject to Arizona Administrative Code (A.A.C.) R18-8-270.A and 40 Code of Federal Regulations (CFR) 270.4, compliance with this Permit generally constitutes compliance, for purposes of enforcement, with the Arizona Hazardous Waste Management Act (AHWMA). Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Sections 3008(a), 3008(h), 3013, or 7003 of RCRA (42 U.S.C. 6921 et seq.); Sections 106(a), 104 or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S.C. 9601 et seq., commonly known as CERCLA), or any other law providing for protection of public health or the environment.

[A.A.C. R18-8-270.A **(**40 CFR § 270.4, 270.30(g))]

B. DEFINITIONS

For purposes of this Permit, terms used herein shall have the same meaning as those in A.A.C. R18-8-260 et seq. (40 CFR Parts 124, 260, 264, 266, 268, and 270), unless this Permit specifically provides otherwise (see alphabetized terms below); where terms are not defined in the regulations or the Permit, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

1. A.A.C. means the Arizona Administrative Code, attached to this Permit as Attachment J.

2. ADEQ Contact means the hazardous waste permit writer for the Arizona Department of Environmental Quality, Hazardous Waste Permits and Support Unit, whose email address is hazwastepermits@azdeq.gov.

3. AHWMA means Arizona Hazardous Waste Management Act.

4. Area of Concern or AOC is defined as:

    * Hazardous product storage unit or area.
    * Any area where a one-time hazardous material (product or waste spill event occurred.
    * Any hazardous material unit or area where management may have occurred, whether the potential for release may have existed, but where insufficient evidence was found during the RCRA Facility Assessment (RFA) to verify the existence of a definable Solid Waste Management Unit (SWMU).

5. CFR means the Code of Federal Regulations as originally adopted for this permit by the March 31, 2008 supplement of *18 A.A.C. 8, Article 2* and modified by the June 30, 2010 and July 1, 2012 supplements of *18 A.A.C. 8, Article 2.*

6. Director means the Director of ADEQ or the Director's designee or authorized representative.

7. Example means, unless otherwise specified, that the form is a blank form that is mandatory to be used or followed. This term does not convey to the Permittee that the statements are optional to be performed or are at the user's discretion. "Example" presents, unless otherwise specified, minimum acceptable.

8. Facility means all contiguous land and structures, and other appurtenances and improvements on the land used for treating, storing or disposing of hazardous waste. A facility may consist of several treatment, storage or disposal units. For the purpose of implementing corrective action under Part V of this Permit, "facility" means all contiguous property under the control of the owner or operator and subject to this Permit and AHWMA.

9. Hazardous constituent means any constituent identified in A.A.C. R18-8-261.A (Appendix VIII of 40 CFR Part 261), or any constituent identified in A.A.C. R18-8-264 (Appendix IX of 40 CFR Part 264).

10. Hazard Classification means the United States Department of Transportation (DOT) hazard classification given to a designated material for the purpose of classifying the material for transport.

11. Hazardous Debris means debris that contains a hazardous waste listed in 40 CFR 261, Subpart D, or that exhibits a characteristic of hazardous waste identified in 40 CFR 261, Subpart C. Any deliberate mixing of prohibited hazardous waste with debris that changes its treatment classification (i.e., from waste to hazardous debris) is not allowed under the dilution prohibition in 40 CFR §268.3.

12. Hazardous waste means a hazardous waste as defined in A.A.C. R18-8-261.A (40 CFR § 261.3).

13. Learning Sites means 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.

14. Performance-Oriented packaging (POP) means those containers meeting the performance-oriented packaging standards as defined by the Department of Transportation HM-181 Standards document.

15. Permittee is the person so designated on the Permit Approval Form, signed by the ADEQ Director or the Director's designee.

16, Property Owner is the person so designated on the Permit Approval Form, signed by the ADEQ Director or the Director's designee

17. Qualified means that the individual or group shall have the same reliability, expertise, integrity, competence, training, education, experience and other necessary skills, as required by this Permit, as the person(s) or group who normally performs that function.

18. QAPP or Quality Assurance Project Plan refers to the plan (or plans) containing the policies and procedures; project organization and objectives; and the quality assurance (QA) requirements and quality control activities designed to achieve the desired type and quality of environmental data necessary to support the project objectives.

19. Regulated Facility or Regulated Unit means any hazardous waste management facility or unit regulated under A.A.C. R18-8-264.A and 270.A, and 40 CFR § 264 and 270.

20. Release includes the definitions of "discharge" and "disposal" as found in A.A.C. R18-8-260.A (40 CFR § 260.10) and means any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of hazardous wastes (including hazardous constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents) or into secondary containment.

21. RCRA means the Resource Conservation and Recovery Act (42 U.S.C. §6901 et seq.).

22. Shall, Must, Will, and factual statements denote mandatory requirements.

23. Should or May denotes a recommendation or permission, respectively, which is not mandatory.

24. Solid Waste Management Unit or SWMU means any discernible unit at which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. SWMUs include those units defined as "regulated units" under RCRA [see A.A.C. R18-8-264.A (40 CFR § 264.90(a)(2))], as well as other units which have generally been exempted from standards applicable to hazardous waste management units, such as recycling units and wastewater treatment units, and areas contaminated by routine, systematic, and deliberate discharges from process areas.

25. Treatment, Storage, and Disposal are terms defined in R18-8-270.A (40 CFR § 270.2).

26. Waste Acceptance refers to the time refers to the time when hazardous waste that is designated for storage at the Facility is permitted within its secured boundary and has passed the Permittee's determination of acceptability. Waste Acceptance does not apply to hazardous waste that will be temporarily held at a transfer facility located at the Facility, for less than the timeframe allowed by the timeframe specified in R18-8-263.A (40 CFR § 263.12) (Transfer Facility Requirements).

27. Waste Receipt means hazardous waste that has been received at the Facility. It refers to the time when hazardous waste that is designated for storage at the Facility is first allowed within its secured boundary. Waste Receipt does not include the time for evaluating Waste Acceptance as described in this Permit. Waste Receipt does not apply to any hazardous waste that will be temporarily held at a transfer facility located at the Facility, and for less than the timeframe allowed by R18-8-263.A (40 CFR § 263.12) (Transfer Facility Requirements).

C. PERMIT ACTIONS

1. Permit Modification, Revocation and Reissuance, and Termination

(a) This Permit may be modified, revoked and reissued, or terminated for cause, as specified in A.A.C. R18-8-270.A(40 CFR §§ 270.41**,** 270.42**,** and 270.43). The Permit may be modified by the Director at any time, following procedures outlined in A.A.C. R18-8-271.D in order to ensure compliance with applicable state and federal requirements. The filing of a request for a Permit modification, revocation and reissuance, or termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee, does not stay the applicability or enforceability of any Permit condition.

(b) In accordance with Arizona Revised Statutes (A.R.S.), Title 41, Chapter 6, Article 10, a final determination regarding any Permit Modification (the approval of the Permittee's Permit Modification request, the approval of the Permittee's Permit Modification request with changes, the denial of the Permittee's Permit Modification request, or the final decision on any agency-initiated Permit Modifications) made by the Director is an appealable agency action. Such appeals shall include the appellant's right to request an informal settlement conference (see A.R.S. §41-1092.06).

[A.A.C. R18-8-270.A**,** 40 CFR § 270.4(a) and 270.30(f), and A.R.S. §41-1092 et seq.]

2. Permit Renewal

This Permit may be renewed as specified in A.A.C. R18-8-270.A (40 CFR § 270.30(b)) and Permit Condition I.E.3. Review of any application for a Permit

renewal shall consider improvements in the state of control and measurement technology, as well as changes in applicable regulations.

[A.A.C. R18-8-270.A, 40 CFR § 270.30(b), and HSWA Sec. 212]

D. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this Permit shall not be affected thereby.

[A.A.C. R18-8-270A, (40 CFR § 124.16(a))]

E. DUTIES AND REQUIREMENTS

The following conditions apply, pursuant to A.A.C. R18-8-270.A and 40 CFR § 270.30:

1. Duty to Comply

The Permittee shall comply with all conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an Emergency Permit. Any Permit noncompliance, other than noncompliance authorized by an Emergency Permit, constitutes a violation of AHWMA and/or RCRA and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application.

[A.A.C. R18-8-270.A, (40 CFR § 270.30(a))]

2. Duty to Reapply

If the Permittee wishes to continue an activity allowed by this Permit after the expiration date of this Permit, the Permittee shall submit a complete application for a new Permit at least one hundred eighty (180) days prior to Permit expiration.

[A.A.C. R18-8-270.A, (40 CFR § 270.10(h), and 270.30(b))]

3. Permit Expiration

This Permit shall be effective for a fixed term not to exceed ten (10) years. This Permit and all conditions herein will remain in effect beyond the Permit's expiration date, if the Permittee has submitted a timely, complete permit application for renewal and through no fault of the Permittee, the Director has not issued a new Permit. For purposes of this requirement a complete application for renewal must be in accordance with requirements of A.A.C. R18-8-270.A, E, F, G, H, I, and J (40 CFR § 270.10, 270.13 through 270.29)

[A.A.C.R18-8-270.A (40 CFR § 270.50(a), 40 CFR § 270.51)]

4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit.

[A.A.C. R18-8-270.A, (40 CFR § 270.30(c))]

5. Duty to Mitigate

In the event of noncompliance with this Permit**,** the Permittee shall take all reasonable steps to minimize releases to the environment and shall carry out such measures, as are reasonable, to prevent significant adverse impacts on human health or the environment.

[A.A.C. R18-8-270.A, (40 CFR § 270.30(d)]

6. Proper Operation and Maintenance

The Permittee shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance/quality control procedures. This provision requires the operation of back-up or auxiliary facilities or equivalent or better systems only when necessary to achieve compliance with the conditions of this Permit.

[A.A.C. R18-8-270.A, (40 CFR § 270.30(e)]

7. Property Rights

This Permit does not convey any property rights of any sort, or any exclusive privilege.

[A.A.C. R18-8-270.A, 40 CFR § 270.4(b) and 270.30(g)]

8. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any relevant information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Permit, or to determine compliance with this Permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit.

[A.A.C. R18-8-264.A and 270.A, and 40 CFR § 264.74(a) and 270.30(h)]

9. Inspection and Entry

Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and

(d) Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by AHWMA or RCRA, any substances or parameters at any location.

[A.A.C. R18-8-270.A (40 CFR § 270.30(i))]

10. Monitoring and Records

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from A.A.C. R18-8-261.A, Appendix I of 40 CFR Part 261 or an equivalent or better method approved by the Director. Laboratory methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846 (current edition), or an equivalent or better method, as specified in the Waste Analysis Plan (See Permit Attachment B) or as approved by the Director.

[A.A.C. R18-8-270.A (40 CFR § 270.30(j)(1))]

(b) The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by this Permit, the certification required by A.A.C. R-18-270.A and 40 CFR § 264.73(b)(9), and records of all data used to complete the application for this Permit for a period of at least three (3) years from the date of the sample, measurement, report, record, certification, or application. These periods may be extended by request of the Director at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.

[A.A.C. R18-8-264.A and 270.A (40 CFR § 264.74(b) and 270.30(j)(2))]

(c) Pursuant to A.A.C. R18-8-270.A (40 CFR § 270.30(j)(3)), records of monitoring information shall specify:

(i) The dates, exact place, and times of sampling or measurements;
(ii) The individual(s) who performed the sampling or measurements;
(iii) The date(s) analyses were performed;
(iv) The individual(s) who performed the analyses;
(v) The analytical techniques or methods used; and
(vi) The results of such analyses.

[A.A.C. R18-8-270.A (40 CFR § 270.30(j)(3)]

(d) Each parameter test that an in-state or out-of-state laboratory (including the Permittee's Quality Control Laboratory) can perform for Hazardous Waste analysis must be licensed (certified) by the Arizona Department of Health Services (ADHS) [A.R.S. Title 36, Chapter 4.3, Article 1, Section 36-495.01]. Additionally, if a contract laboratory is used to perform analyses, then the Permittee shall inform the laboratory in writing that it must operate under the conditions set forth in this Permit. For notification and certification verification purposes, a copy of that letter must be included with the final analytical report.

11. Signatory and Certification Requirements

All applications, reports, or information submitted to or requested by the Director, his/her designee, or authorized representative, shall be signed and certified in accordance with A.A.C. R18-8-270.A and 40 CFR § 270.11

[A.A.C. R18-8-270.A (40 CFR § 270.30(k))]

12. Reporting Requirements

(a) Planned Changes

The Permittee shall give notice to the Director, as soon as possible, of any planned physical alterations or additions to the Permitted facility.

[A.A.C. R18-8-270.A and 270.L (40 CFR § 270.30(l)(1))]

(b) Anticipated Noncompliance

The Permittee shall give advance notice to the Director of any planned changes (e.g., physical alterations) in the permitted facility or activity which may result in noncompliance with Permit requirements.

[A.A.C. R18-8-270.A and 270.L (40 CFR § 270.30(l)(2))]

(c) Transfers

This Permit is not transferable to any person or any other corporation, except after notice to the Director. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as necessary pursuant to A.A.C. R18-8-270.A and 40 CFR § 270.40.

[A.A.C. R18-8-270.A and 270.L (40 CFR § 270.30(l)(3)); R18-8-264.A (40 CFR § 264.12(c))]

(d) Monitoring Reports

Monitoring results shall be reported at the intervals specified elsewhere in this Permit.

[A.A.C. R18-8-270.A and 270.L (40 CFR § 270.30(l)(4))]

(e) Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than fourteen (14) calendar days following each schedule date.

[A.A.C. R18-8-270.A (40 CFR § 270.30(l)(5))]

(f) Manifest Discrepancy Report

If a discrepancy in a manifest is discovered, the Permittee must attempt to reconcile the discrepancy. If not resolved within fifteen (15) calendar days, the Permittee must submit a letter report, including a copy of the manifest, to the Director.

[A.A.C.R18-8-270.A (40CFR§270.30(l)(7)),A.A.C.R18-2-264.A(40 CFR§264.72)]

(g) Unmanifested Waste Report

The Permittee shall submit an unmanifested waste report to the Director within fifteen (15) calendar days of the receipt of unmanifested waste.

[A.A.C.R18-8-270.A (40 CFR §270.30(l)(8)), A.A.C.R18-2-264.A(40 CFR§264.76)]

(h) Biennial Report

The Permittee must submit a Biennial Report pursuant to, and as described in A.A.C. R18-8-264.A (40 CFR § 264.75).

(i) Other Noncompliance

The Permittee shall report all instances of noncompliance not required under A.A.C. R18-8-270.A and 40 CFR § 270.30(l)(4), (l)(5) and (l)(6), at the time monitoring (including annual) reports are submitted. Reports shall contain the information listed in A.A.C. R18-8-270.A and 40 CFR § 270.30(l)(6).

[A.A.C. R18-8-270.K and 270.L (40 CFR § 270.30(l)(10))]

13. Twenty-Four Hour Reporting

The Permittee shall immediately report to the Director any noncompliance which may endanger human health or the environment. Any such information shall be reported orally within twenty-four (24) hours from the time the Permittee becomes aware of the circumstances. The report shall include the following:

(a) Information concerning the release of any hazardous waste that may cause an endangerment to public drinking water supplies.

(b) Any information of a release or discharge of hazardous waste, or of a fire or explosion from the hazardous waste management facility, which could

threaten the environment or human health outside the facility. The description of the occurrence and its cause shall include:

(i) Name, address, and telephone number of the owner or operator;
(ii) Name, address, and telephone number of the facility;
(iii) Date, time, and type of incident;
(iv) Name and quantity of material(s) involved;
(v) The extent of injuries, if any;
(vi) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
(vii) Estimated quantity and disposition of recovered material that resulted from the incident.

(c) A written submission of the occurrence shall also be provided within five (5) calendar days of the time the Permittee becomes aware of the circumstances. The written submission shall contain:

(i) A description of the noncompliance and its cause;
(ii) The period(s) of noncompliance (including exact dates and times);
(iii) Whether the noncompliance has been corrected; and, if not corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

The Director may waive the five (5) day written notice requirement in favor of a written report within fifteen (15) days.

[A.A.C. R18-8-270.A (40 CFR § 270.30(l)(6))]

14. Other Information

(a) Whenever the Permittee becomes aware that it failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application or in any report to the Director, the Permittee shall promptly submit such facts or information.

[A.A.C. R18-8-270.A and 270.L (40 CFR § 270.30(l)(11))]

(b) Noncompliance with terms and conditions of the Permit that result in letters of warning, compliance orders from the Director, a civil consent judgment, or criminal enforcement of environmental laws by the State of Arizona shall be used to document the reliability, expertise, integrity and competence of the Permittee, pursuant to A.A.C. R18-8-270.J, and would be considered by the Director in making future changes to the Permit, pursuant to A.A.C. R18-8-270.A (40 CFR § 270 Subpart D); and when issuing a new Permit as set forth in A.A.C. R18-8-270.A (40 CFR § 270.51).

F. CONFIDENTIAL INFORMATION

The Permittee may claim confidential any information required to be submitted by this Permit.

[A.A.C. R18-8-270.A (40 CFR § 270.12)]

G. DOCUMENTS TO BE MAINTAINED AT THE FACILITY

The Permittee shall maintain at the facility, until closure is completed and certified by an independent, qualified, Arizona Registered Professional Engineer (P.E.), the current/updated version of the following documents:

1. Waste Analysis Plan, as required by A.A.C. R18-8-264.A, 40 CFR § 264.13 and this Permit;

2. Inspection schedules, as required by A.A.C. R18-8-264.A, 40 CFR § 264.15(b) and this Permit;

3. Personnel training documents and records, as required by A.A.C. R18-8-264.A, 40 CFR § 264.16(d) and this Permit;

4. Contingency Plan, as required by A.A.C. R18-8-264.A, 40 CFR § 264.53(a) and this Permit;

5. Operating record, as required by A.A.C. R18-8-264.A, 40 CFR § 264.73 and this Permit;

6. Closure Plan, as required by A.A.C. R18-8-264.A, 40 CFR § 264.112(a) and this Permit;

7. Annually adjusted cost estimate for facility closure, as required by A.A.C. R18-8-264.A, 40 CFR § 264.142(d) and this Permit;

8. All other documents required by Permit Condition I.E.10 (Monitoring and Records).

9. A signed duplicate copy of the liability policy required under Permit Condition II.N.

10. All other documents required by Permit Condition I.E.10 (Monitoring and Records).

H. PERMIT MODIFICATIONS

1. General Conditions

For Permit modifications (including re-applications), the Permittee shall follow A.A.C. R18-8-270.A and 40 CFR § 270.42 and as applicable:

(a) Permit Condition I.C.1. (Permit Modification, Reissuance, and Termination);

(b) Permit Condition I.E.12(b) (Reporting Requirements – Anticipated Noncompliance);

(c) Permit Condition I.E.12 (a) (Reporting Requirements – Planned Changes);

(d) Permit Condition II.A (Design and Operation of Facility);

(e) Signatory and document liability certification requirements as described in Permit Condition I.E.11 (Signatory and Certification Requirements);

(f) Confidentiality rules, if desired, pursuant to Permit Condition I.F. (Confidential Information); and

(g) Fees required to be submitted with the application for Permit modification as required by A.A.C. R18-8-270.G.

(h) Follow procedures, as applicable, for changing the emergency contingency plan or hazardous waste codes and changing key employees.

2. Facility Mailing List

The Permittee shall obtain (from the ADEQ Contact) and use an updated current facility mailing list, pursuant to A.A.C. R18-8-270.A and 40 CFR § 270.42 when processing all Permittee requested Permit modifications.

[A.R.S. 49-941, A.A.C. R18-8-271.I(c)]

3. Changes to Key Employee(s)

For the following key personnel changes, the Permittee shall submit to the ADEQ Contact an ADEQ Character/Background Reference Form:

(a) Signatories – See Permit Condition I.E.11 (Signatory and Certification Requirements);

(b) Emergency Coordinators – See Permit Attachment F (Contingency Plan).

[A.R.S. 49-922.C; A.A.C. R18-8-270.J (270.14(b)(20))]

4. Changes to Contingency Plan

Modifications to Permit Attachment F (Contingency Plan) have additional notification requirements as described in that plan.

[40 CFR § 264.37(a)(4) and A.A.C. R18-8-264.A]

PART II – GENERAL FACILITY CONDITIONS

A. DESIGN AND OPERATION OF FACILITY

The Permittee shall construct, maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned, sudden or non-sudden release of hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

[A.A.C. R18-8-264.A, (40 CFR § 264.31)]

B. REQUIRED NOTICES

1. Hazardous Waste Imports

The Permittee shall notify the Director, in writing, at least four weeks in advance of the date the Permittee expects to receive hazardous waste from a foreign source.

[A.A.C. R18-8-264.A, (40 CFR § 264.12(a))].

2. Hazardous Waste from Off-Site Sources

When the Permittee is to receive hazardous waste from an off-site source, he/she must inform the generator in writing that he/she has the appropriate Permits, and will accept the waste the generator is having transported. The Permittee must keep a copy of this written notice as part of the operating record.

[A.A.C. R18-8-264.A, (40 CFR § 264.12(b))]

3. Damage to a Tank

Should any tank become damaged during operation at the facility, the Permittee shall immediately remove the unit from service and verbally notify the ADEQ Contact of the damaged status of the unit in accordance with Part I.E.6.

A written notification shall be filed with the ADEQ Contact within five (5) days of the event. This notification shall document the event damaging the unit, and describe the extent of the physical damage to the unit. The Permittee shall also provide a brief summary of the manner/methods anticipated to be employed in repairing the unit, an estimate on the length of time the repair will take, and/or notification of the removal of the unit from service. If it is the Permittee's intent to remove the unit from service permanently, the Permittee must receive an approval from the Director of a permit modification request in accordance with Part I.H (Permit Modifications) of this Permit, and must develop and implement a partial closure plan for that unit.

"Damage" is defined as any physical deformation that compromises the structural soundness and/or integrity of the unit. With regard to tanks, "damage" includes any popping of seams or rivets, warping or twisting of structural support features or the external shell, or any other physical or chemical deformation that compromises the

integrity of the tank unit. Damage also includes any deformation that compromises the containment of the tank system. Surficial cracks which are readily repaired and do not breach the unit are not considered reportable damage under this provision; however, repair to such surficial cracks shall be made within 24 hours upon discovery.

[40 CFR § 264.193(b)(1) and 40 CFR § 264.196]

C. GENERAL WASTE ANALYSIS

The Permittee shall follow the waste analysis procedures, as described in the Waste Analysis Plan (Permit Attachment B). The Permittee shall conduct any additional sampling and analysis that the Director determines necessary to ensure that there are no significant impacts on human health or the environment.

1. Annual Waste Stream Evaluation

The Permittee shall verify the analysis of each waste stream annually, or when a change occurs to the waste stream, in accordance with Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, EPA Publication SW-846 (current edition), or equivalent or better methods approved by the Director. At a minimum, the Permittee shall maintain proper functioning instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. If the Permittee uses a contract laboratory to perform analyses, then the Permittee shall inform the laboratory in writing that it must operate under the waste analysis conditions set forth in this Permit.

[A.A.C. R18-8-264.A, (40 CFR § 264.13]

2. ADHS Certification

All testing performed directly for the Permittee at off-site laboratories or on-site laboratories, in-state or out-of-state, must be conducted by laboratories licensed (certified) by the Arizona Department of Health Services for the applicable analytical methods in use at the off-site or on-site laboratory.

[A.R.S. Title 36, Chapter 4.3, Article I, Section 36-495.01]

3. Annual Waste Stream Re-certification – Notification of Generator

Analysis of incoming waste streams shall be re-certified at least annually; the re-certification process must be documented and include notification to the generator that, as a minimum, annual re-certification of waste profiles is required.

[40 CFR § 264.13(b)(4)]

4. Waste Stream Certification – Applicable Time Limits

Analysis of incoming waste streams shall be completed within twenty-four (24) hours after arrival of the waste at the facility.

[40 CFR § 264.13(c)(1)]

D. SECURITY

The Permittee shall comply with the security provisions of A.A.C. R18-8-264.A, 40 CFR § 264.14(b)(2) and (c) and those contained in Permit Attachment E (Procedures to Prevent Hazards) of this Permit.

E. GENERAL INSPECTION REQUIREMENTS

The Permittee shall follow the inspection schedule set out in the Procedures to Prevent Hazards (Permit Attachment E). The Permittee shall remedy any deterioration or malfunction discovered by an inspection, as required by A.A.C. R18-8-264.A and 40 CFR § 264.15(c). Records of inspection shall be kept, as required by A.A.C. R18-8-264.A and 40 CFR § 264.15(d).

F. PERSONNEL TRAINING

The Permittee shall conduct personnel training, as required by A.A.C. R18-8-264.A and 40 CFR § 264.16. This training program shall follow the outline contained in the Personnel Training (Permit Attachment G). The Permittee shall maintain training documents and records, as required by A.A.C. R18-8-264.A and 40 CFR § 264.16(d) and (e).

G. SPECIAL PROVISIONS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE, AND BULKING OF WASTES

1. The Permittee shall comply with the requirements of A.A.C. R18-8-264.A and 40 CFR § 264.17. The Permittee shall follow the procedures for handling ignitable, reactive, and incompatible wastes set forth in the Waste Analysis Plan (Permit Attachment B) and Procedures to Prevent Hazards (Permit Attachment E).

2. The Permittee shall ensure that at least one of the following titled personnel, properly trained in waste receipt and determination of waste compatibility, is on-site and available to oversee any compatibility determination that is made for the purposes of receiving, bulking, combining, or transferring wastes: General Manager, Operations Manager, Operations Supervisor, Labpack Foreman, Environmental Compliance Manager, or Receiving Chemist.

H. PREPAREDNESS AND PREVENTION

1. Required Equipment

   At a minimum, the Permittee shall maintain at the facility the equipment set forth in the Procedures to Prevent Hazards and the Contingency Plan (Permit Attachment E and Permit Attachment F).

   [A.A.C. R18-8-264.A (40 CFR § 264.32)]

2. Testing and Maintenance of Equipment

The Permittee shall test and maintain the equipment specified in Permit Condition II.H.1., as necessary, to ensure its proper operation in time of emergency.
[A.A.C. R18-8-264.A (40 CFR § 264.33)]

3. Access to Communications or Alarm System

The Permittee shall maintain access to the communications or alarm system.
[A.A.C. R18-8-264.A (40 CFR § 264.34)]

4. Required Aisle Space

At a minimum, the Permittee shall maintain aisle space and the plans and specifications contained in Permit Part III.A ("Container Management Summary"), and Attachment C, Process Information – applicable drawings include all of Appendix C-B.
[A.A.C. R18-8-264.A (40 CFR § 264.35]

5. Arrangements with Local Authorities

The Permittee shall maintain arrangements with state and local authorities, as required by A.A.C. R18-8-264.A and 40 CFR § 264.37. If state or local officials refuse to enter into preparedness and prevention arrangements with the Permittee, the Permittee must document this refusal in the operating record. All correspondence related to these arrangements must be kept with the Contingency Plan.
[A.A.C. R18-8-264.A (40 CFR § 264.52(c))]

I. CONTINGENCY PLAN

1. Implementation of Plan

(a) The Permittee shall immediately carry out the provisions of the Contingency Plan (Permit Attachment F), and follow the emergency procedures described in A.A.C. R18-8-264.A and C and 40 CFR § 264.56 whenever there is a fire, explosion, or release of hazardous waste or constituents which could threaten human health or the environment.
[A.A.C. R18-8-264.A (40 CFR § 264.51(b))]

(b) As part of remedial action taken in response to a fire, release or explosion of hazardous materials, the Permittee shall sample and analyze, to detect the extent and depth of any soil contamination. Sample types, locations, analytes, and methods may be subject to the approval of the Director. The sampling and analytical methods used must be consistent with those published in Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods, EPA Publication SW-846 (current edition). A report of the sampling and analysis must be kept on file. The report shall include:

(i) The number of samples taken;
(ii) The location and size of each sample;
(iii) The depth of each sample;
(iv) The specific analytical methods used;
(v) A description of the sampling tools, containers, filling, sealing, and preservation methods.

In addition, each parameter test that the in-state or out-of-state laboratory can perform for hazardous waste analysis must be licensed (certified) by Arizona Department of Health Services as stated in Permit Attachment B, "Waste Analysis Plan" and Permit Attachment H, "Closure Plan". [A.R.S. Title 36, Chapter 4.3, Article 1, Section 36-495.01]

If the samples indicate that there is soil contamination, then the report must also include the following information:

(vi) Description of the statistical methods used;
(vii) Soil type and permeability information
(viii) Groundwater depth and quality information; and
(ix) Procedures for establishing background contaminant concentrations.

(c) If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside the facility, he/she must immediately notify the Director, and either the government official designated as the on-scene coordinator for that geographical area, or the National Response Center in accordance with A.A.C. R18-8-264.A and F (40 CFR § 254.56(d)).

2. Copies of Plan

The Permittee shall maintain a copy of the Contingency Plan at the facility and shall provide a copy to all police departments, fire departments, hospitals, and State and local emergency response teams that may be asked to provide emergency assistance. Documentation of timely submittal of Contingency Plans and revisions shall be in the form of a certified mail receipt, or similar documentation, and retained in the facility operating record.

[A.A.C. R18-8-264.A (40 CFR § 264.53)]

3. Amendments to Plan

The Permittee shall review and, if necessary, request a modification to the Contingency Plan.

[A.A.C. R18-8-264.A (40 CFR § 264.54)]

4. Emergency Coordinator

(a) The emergency coordinator (EC) must be thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of wastes handled, the location of all records within the facility, the facility layout, and the authority to commit the resources needed to carry out the contingency plan.

(b) During operating hours of the facility, the EC shall be on the facility premises or on call (must be able to immediately reach the facility) in case of an emergency, as required by A.A.C. R18-8-264.A and 40 CFR § 264.55.

(c) A list of persons authorized to act as an EC is found in Permit Attachment F "Contingency Plan", Section 4.1 and 4.2. Any change to the names, addresses, and phone numbers of all persons qualified to act as an EC, as listed in Permit Attachment F (Contingency Plan), shall be supplied to the Director as a Permit modification pursuant to Permit Condition II.I.3 above.
[A.A.C. R18-8-264.A (40 CFR § 264.52(d) and 40 CFR § 264.55)].

5. List of Learning Sites

The Permittee must maintain a contact list of Learning Sites within 1.0 mile of the facility. The list shall include the Learning Site name, address, telephone number, and the name of a primary contact at each Learning Site. Upon implementation of the emergency provisions of the Contingency Plan, the Permittee shall make this information available to the fire department. This list shall also be included in the Permit Attachment F, "Contingency Plan" and be updated a minimum of annually.
[A.A.C. R18-8-270.A (40 CFR 270.32(b))]

6. Annual Report on Equipment that Contains or Contacts Organic Waste For Less Than 300 Hours Per Calendar Year

The Permittees shall submit a summary report of the equipment that contains or contacts hazardous waste with an organic concentration of at least ten (10) percent by weight, but does so for cumulatie periods of less than 300 hours per calendar year. The report shall be submitted by February 1 of each calendar year, and shall be certified by the Permittee in accordance with R18-8-270.A (40 CFR § 270.11(b).
[A.A.C. R18-8-264.A (40 CFR 264.1064(g)(6))]

J. RECORD KEEPING AND REPORTING

In addition to the record keeping and reporting requirements specified in Permit Part I, A.A.C. R18-8-264.A, and 40 CFR § 264.77, the Permittee shall do the following:

1. Operating Record

The Permittee shall maintain a written (or electronic as noted below) operating record at the facility for three years unless otherwise noted, in accordance with A.A.C. R18-8-264.A and 40 CFR § 264.73, to include but not be limited to:

(a) A description and the quantity of each hazardous waste received and the method(s) and date(s) of its treatment, storage, and/or disposal at the facility (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative). This information must be maintained in the operating record until closure of the facility;

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(1) including Appendix I)]

(b) The location of each hazardous waste within the facility, the quantity at each location, and cross references to specific manifest document numbers, if the waste was accompanied by a manifest (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative) This information must be maintained in the operating record until closure of the facility;

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(2))]

(c) The records and results of waste analyses and waste determinations (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative);

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(3))]

(d) The summary reports and details of all incidents that require implementing the Contingency Plan (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative);

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(4))]

(e) The records and results of inspections (this may be a written or an electronic record, however electronic records of any checklist must be identical electronic images of the original written record);

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(5))]

(f) The monitoring, testing or analytical data, and corrective action; this includes documentation demonstrating monitoring, maintenance and testing of components and equipment at the facility related to management of hazardous waste is completed at the required frequencies. Maintain in the operating record for three years, except for records and results pertaining to groundwater monitoring and cleanup, which must be maintained in the operating record until closure of the facility (this may be a written record or an electronic record with written report provided upon request by the Director's authorized representative);

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(6))]

(g) All closure cost estimates (this may be a written record or an electronic record with a written report provided upon request by the Director's authorized representative);

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(8))]

(h) Copies of waste minimization documents required in Permit Condition II.S (this may be a written record or an electronic record with a written report provided upon request by the Director's authorized representative. However, waste minimization certifications must be an identical electronic image of the original written record).

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(9))]

(i) The notices, certification and demonstration, if applicable, required of generators (this may be a written record or an electronic record, however they must be an identical electronic image of the original written record).

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(7))]

2. Biennial Report

The Permittee shall comply with biennial reporting requirements of A.A.C. R18-8-264.A (40 CFR § 264.75).

3. Inspection of Records

The Permittee shall make applicable records available to any authorized representative of the Director conducting an inspection pursuant to Permit Condition I.E.9 (Inspection and Entry).

4. Manifests

The Permittee shall comply with the manifest requirements of A.A.C. R18-8-264(H) and (J) and 40 CFR § 264.71, 264.72, and 264.76.

K. GENERAL CLOSURE REQUIREMENTS

1. Update of Final Closure Plan Prior to Implementation of Final Closure

No later than six months prior to final closure of the facility the Permittee shall submit a revised closure plan for ADEQ approval in accordance with the permit modification procedures of R18-8-270.A (40 CFR § 270.41, 40 CFR § 270.42 et seq.) The Permittee shall not commence with any of the steps (e.g., notification of closure) of final closure of the facility without having the final closure plan approved by the Director.

2. Performance Standard

The Permittee shall close the facility, as required by A.A.C. R18-264.A, 40 CFR § 264.111, and in accordance with the Closure Plan (Attachment H). Performance standards for soils are non-Residential Soil Remediation Levels (SRLs), given in AAC R18-7 Appendix A. The Permittee shall submit any changes to performance standards as a permit modification request in accordance with Permit Part I.

3. Amendment to Closure Plan

The Permittee shall amend the Closure Plan (Permit Attachment H), in accordance with A.A.C. R18-8-264.A and 40 CFR § 264.112(c), whenever necessary.

4. Notification of Closure

The Permittee shall notify the Director in writing at least forty-five (45) days prior to the date on which he/she expects to begin partial closure of any permitted unit or units, or final closure of the facility. Partial Closure activities will follow the same steps as identified under Permit Condition II.K.1, except that partial closure plans and notifications shall be specific to the unit or units to be closed at that time.

[A.A.C. R18-8-264.A (40 CFR § 264.112(d)]

5. Time Allowed for Closure

Within ninety (90) days after receiving the final volume of hazardous waste, the Permittee shall remove from the facility all hazardous waste and shall complete closure activities, in accordance with A.A.C. R18-8-264.A, 40 CFR § 264.113 and the schedules specified in the Closure Plan (Permit Attachment H).

6. Disposal or Decontamination of Equipment, Structures, and Soils

The Permittee shall decontaminate and/or dispose of all contaminated equipment, structures, and soils, as required by A.A.C. R18-8-264.A, 40 CFR § 264.114 and the Closure Plan (Permit Attachment H).

Each parameter test that the in-state or out-of-state laboratory performs for Hazardous Waste analysis during closure must be licensed (certified) by Arizona Department of Health Services.

[A.R.S. Title 36, Chapter 4.3, Article 1, Section 36-495.01]

7. Closure Report

Within sixty (60) days of completion of closure of the unit(s), the Permittee shall submit a closure report that includes at minimum the following information:

(a) A summary of results, significant observations, deviations from the approved plan, and conclusions.

(b) A detailed discussion of the closure procedures followed for each unit. Include a description of:

(i) The procedures followed for decontamination of the hazardous waste management unit (including disposition of residues);
(ii) The equipment used for decontamination of the hazardous waste management unit;
(iii) The sampling procedures used;
(iv) The equipment used for sampling;
(v) The remedial procedures (if applicable) used;
(vi) The equipment used for remediation (if applicable);
(vii) The analytical procedures and methods used;
(viii) The analytical equipment used;
(ix) The quality assurance program used;
(x) The procedures used to prevent hazards and protect field personnel during closure;
(xi) The equipment used to prevent hazards and protect field personnel during closure.

Also include drawings and photographs where appropriate and identify any deviations from the approved plan.

(c) Data generated from sampling and analysis activities performed pursuant to the plan, including field notes, manifests, bills of lading, Land Disposal Restriction (LDR) forms, laboratory submittal forms, chain-of-custody forms, laboratory reports, and drilling logs.

(d) Risk assessment discussion (if applicable), including methodology, data, references, and assumptions.

(e) Certifications from the engineer and owner/operator.

(f) Other information requested by the Director.

8. Certification of Closure

The Permittee shall certify that the facility has been closed in accordance with the specifications in the Closure Plan (Permit Attachment H).

[A.A.C. R18-8-264.A, (40 CFR § 264.115)]

L. COST ESTIMATE FOR FACILITY CLOSURE AND CORRECTIVE ACTION

1. Cost Estimates

The Permittee's most recent closure cost estimate, prepared in accordance with A.A.C. R18-8-264.A, 40 CFR § 264.142(a), is specified in Permit Attachment H (Section I.3, Closure Cost Estimates). The Permittee's most recent corrective action cost estimate, prepared in accordance with A.A.C. R18-8-264.A, 40 CFR § 264.101(b), is also specified in Permit Attachment H (Table H-1).

2. Cost Adjustments

The Permittee must adjust the closure cost and corrective action cost estimates within sixty (60) days prior to the anniversary date of the establishment of the financial instrument(s).

[A.A.C. R18-8-264.A, (40 CFR § 264.142(b))]

3. Cost Revisions

The Permittee must revise the closure cost estimate whenever there is a change in the facility's Closure Plan. The Permittee must revise the corrective action cost estimate whenever there is a change in the corrective action scope of activities.

[A.A.C. R18-8-264.A, (40 CFR § 264.142(c))]

4. Maintenance of Cost Revisions

The Permittee must keep at the facility the latest closure and corrective action cost estimates.

[A.A.C. R18-8-264.A, (40 CFR § 264.142(d))]

5. Submittal of Cost Revision

Any revisions made to the closure or corrective action cost estimates per L.2 or L.3, above shall be submitted to the ADEQ Contact within thirty (30) days of revision. The submittal shall provide the updated and prior cost estimates and show the method and calculations used in the update. The submittal shall be made as a Class 1 permit modification request with Director approval.

M. FINANCIAL ASSURANCE FOR FACILITY CLOSURE AND CORRECTIVE ACTION

The Permittee shall demonstrate continuous compliance with this Permit Condition by providing documentation of financial assurance, as required by A.A.C. R18-8-264.A and 40 CFR § 264.143 and 264.151 and 264.101, in at least the amount of the cost estimates required by Permit Condition II.L. Changes in financial assurance mechanisms must be approved by the Director pursuant to A.A.C. R18-8-264.A, L and 40 CFR § 264.143 and

submitted to the ADEQ Contact as a Class 1 permit modification request with Director approval.

N. LIABILITY REQUIREMENTS

The Permittee shall demonstrate continuous compliance with the requirement of A.A.C. R18-8-264.A, M and 40 CFR § 264.147(a) to have and maintain liability coverage for sudden and accidental occurrences in the amount of at least $1 million per occurrence, with an annual aggregate of at least $2 million, exclusive of legal defense costs. The wording of the certificate of liability insurance must be identical to the wording specified in A.A.C. R18-8-264.A, M and 40 CFR § 264.151(j).

O. INCAPACITY OF OWNERS OR OPERATORS, GUARANTORS, OR FINANCIAL INSTITUTIONS

The Permittee shall comply with A.A.C. R18-8-264.A and 40 CFR § 264.148, whenever necessary.

P. LAND DISPOSAL RESTRICTIONS

The Permittee shall comply with all the applicable Land Disposal Restriction (LDR) requirements of 40 CFR Part 268, not limited to: the required notices, use of the hazardous waste debris rule, and storage prohibitions of A.A.C. R18-8-268.A, and 40 CFR § 268.7, 268.45, and 268.50.

Q. AIR EMISSIONS STANDARDS FOR TANKS AND CONTAINERS

The Permittee shall comply with the requirements of A.A.C. R18-8-264.A [40 CFR Part 264, Subpart BB (for equipment leaks) and Subpart CC (for tanks and containers)].

R. TRANSPORTATION ROUTES FOR HAZARDOUS WASTE SHIPMENTS

The Permittee shall instruct each of its drivers of hazardous waste to avoid as much as is practicable the use of any routes that pass through residential areas or that pass by Learning Sites.

[A.A.C. R18-8-270.A (40 CFR § 270.32(b))]

S. WASTE MINIMIZATION CERTIFICATION

1. Annual Certification

The Permittee shall annually certify:

(a) That the Permittee has a program in place to reduce the volume and toxicity of all hazardous wastes which are generated by the facility operations to the degree, determined by the Permittee, to be economically practicable; and,

(b) That the method of treatment, storage, or disposal is the only practicable method or combination of methods currently available to the facility which minimizes the present and future threat to human health and the environment.

[A.A.C. R18-8-264.A (40 CFR § 264.73(b)(9))]

2. Signatory Requirements

This certification shall be retained with the facility's operating record and shall comply with the signatory requirement of Permit Condition I.E.11 (Signatory and Certification Requirements)

T. SCHEDULE OF COMPLIANCE

1. Notification and Submittal of Financial Assurance for Closure

(a) Within sixty (60) days prior to first receipt of hazardous waste, the Permittee shall submit the certificate of insurance demonstrating compliance with R18-8-264.A (40 CFR 264, Subpart H). The amount of the FA shall not be less than the most recent closure cost estimate, contained in Permit Attachment H, Table H-6. The certificate shall be incorporated into the Permit at Permit Attachment H, Exhibit H-3, and the permit modified per Permit Condition I.H as a permit modification requiring director approval.

(b) Within thirty (30) days prior to first receipt of hazardous waste, the Permittee shall submit an original signed copy of the insurance policy demonstrating compliance with R18-8-264.A (40 CFR 264, Subpart H). The original signed copy shall include all endorsements and riders for the policy. It shall specify an effective date before the date of the anticipated first receipt of hazardous waste at the Facility.

[A.A.C. R18-8-264.A (40 CFR 264.142, 264.31 and 264.32), A.A.C. R18-8-270.A (40 CFR 270.32(b)(2) and 270.33)]

2. Notification and Submittal of Liability Insurance

(a) Within sixty (60) days prior to first receipt of hazardous waste, the Permittee shall submit an updated certificate of liability insurance demonstrating compliance with R18-8-264.A (40 CFR 264.147).

(b) The certificate of liability insurance shall be incorporated into the Permit at Permit Attachment H, Exhibit H-4. Any changes to the type of liability coverage is subject to the Permit Modification requirements specified in Permit Condition II.T.1

[A.A.C. R18-8-264.A (40 CFR 264.142, 264.31 and 264.32), A.A.C. R18-8-270.A (40 CFR 270.32(b)(2) and 270.33)]

3. Construction Schedule for New Hazardous Waste Management Units

(a) Within thirty (30) days of Permit issuance the Permittee shall submit to ADEQ a written schedule for the construction of the new hazardous waste management units, as detailed in Permit Tables III-A and IV-B. The construction schedule shall provide the following dates for each unit:

(i) Grading and compaction of the dirt base;

(ii) Laying, welding, and strength testing of the geomembrane liner welds, if applicable;

(iii) Laying and welding of the non-woven liner, if applicable;

(iv) The pouring of concrete; the concrete will be inspected by the supervising engineer. The engineer will verify that it meets the design requirements for the fiber mesh reinforcement, the proper slump, and that the concrete surface preparation meets the design requirements;

(v) The application of the protective coating referenced in Attachment C; and

(vi) The installation and testing of fire protection systems (if applicable).

The supervising engineer or a Qualified (see definition I.B.17) designee shall inspect each of the above phases of construction.

(b) Construction of units specified in Tables III-A and IV-A shall follow the specifications contained in Sections III and IV of the permit as well as Permit Attachment C (Process Information). Any changes to the specifications shall first be approved by the Director;

(c) Permittee shall submit monthly progress reports to the ADEQ Contact providing the status of the construction of each of the new hazardous waste management units. The progress reports shall provide a summary of the status of the construction, per the construction schedule elements, for each of the new hazardous waste management units. Such monthly progress reports shall be provided to the ADEQ Contact until such time that the construction is completed for all of the new hazardous waste management units.

(d) Completion Report:

(i) Within 60 days of completion of construction of the new hazardous waste management units the Permittee shall submit to the ADEQ a completion report (Report).

(ii) The Report shall be sealed by an engineer registered in Arizona, and include a certification in accordance with R18-8-270.A (40 CFR 270.11(d)).

(iii) The Report shall be submitted as a Class 1 permit modification request (C1 PMR) requiring Director approval. The C1 PMR and Report shall include final certified as-built diagrams for each of the hazardous waste management units, identify any deviations from the

approved specifications, and shall include a request for Director approval to begin the storage of hazardous waste on each of the new hazardous waste management units.

(iv) The Permittee shall not store hazardous waste on the new hazardous waste management units until the Director approves the Report and the C1 PMR for each of the new hazardous waste management units.

(v) The Report shall include written assessments that are reviewed and certified by a sealed Professional Engineer in Arizona to the structural integrity and suitability for the allowed hazardous waste of each tank system installed in accordance with R18-8-270.A (40 CF 270.16).

(vi) The Report shall include all reports certified by a qualified individual regarding the installation of the tank system in accordance with the requirements of paragraphs (b) through (f) of 40 CFR 264.192, that attest that the tank system was properly designed and installed and that repairs, pursuant to paragraphs (b) and (d) of 40 CFR 264.192, were performed. These written statements must also include the certification statement as required by R18-8-270.A (40 CFR 270.11(d)).

(e) Delays to Start of Construction and Delays to Completion of Construction: Permittee shall complete construction of the new hazardous waste management units within one year from Permit Issuance. Written requests to extend this deadline shall be submitted by the Permittee to the ADEQ Contact not later than thirty day prior to the deadline.

4. Submittal of Documentation Related to Equipment Leaks and Air Emissions Standards (Attachment D)

(a) Within sixty (60) days of Permit Issuance, Permittee shall update Permit Attachment D, Appendices D-B and D-C with the serial number(s) of all devices used to monitor for equipment leaks and used to comply with the air emissions standards. (e.g., the RAE MiniRAE 3000+ PID that was identified in the Section).

(b) Within sixty (60) days of Permit Issuance, Permittee shall update Permit Attachment D with the manufacturer's instructions for instrument calibration for all devices used to monitor for equipment leaks and to comply with the air emissions standards (e.g., the RAE MiniRAE 3000+ PID instruments that were identified in the Section).

(c) Within sixty (60) days of Permit Issuance, Permittee shall update Permit Attachment D to include a full Table identifying all equipment required to be monitored per 40 CFR Subpart AA, BB, and CC.

5. Submittal of Documentation Related to Precipitation Management Standard Operating Procedure

Within sixty (60) days of Permit Issuance, Permittee shall update Permit Attachment C to include a Standard Operating Procedure for management of any precipitation that has accumulated in secondary containment systems. The SOP shall generally follow the guidelines of the ADEQ Precipitation Management SOP found in Permit Attachment C, Exhibit C-6. The SOP shall be submitted to the Director as a Class 1* PMR requiring Director Approval.

6. Submittal of Documentation Related to Contingency Plan

Within sixty (60) days of Permit Issuance, Permittee shall update Permit Attachment F to include an accurate list of persons authorized to act as an EC in sections 4.1 and 4.2 and submit this change to the Director as a Permit Modification. Any further changes to the Contingency Plan shall be supplied to the Director as a Permit modification pursuant to Permit Condition II.I.3.

7. Submittal of Documentation Related to Corrective Action

Within fourteen (14) days of completion of a SWMU, the Permittee shall submit an updated drawing with the locations of all current and completed SWMU's marked in red as seen in Figure V-1.

8. Notification of First Receipt of Hazardous Waste

Within three days of first receipt of hazardous waste for storage or treatment at the Facility, Permittee shall provide the ADEQ Contact notification that the Facility has received the hazardous waste. The notification shall include the date of receipt, the quantity (in drums, gallons, or pounds) of hazardous waste received for storage, and the designated hazardous waste management units where the waste has been stored or treated.

[A.A.C. R18-8-270.A (40 CFR 270.32(b)(2) and 270.33)]

PART III – HAZARDOUS WASTE STORAGE IN CONTAINERS

This section of the permit authorizes the storage of hazardous wastes in containers in designated Container Storage Areas (CSAs).

No treatment activities in containers are authorized under this Permit.

A. CONTAINER MANAGEMENT SUMMARY

The Permittee's container storage facilities description, design and plans are described in Attachments A, "Facility Information," and C "Process Information", and are described in the Figures and Drawings appended to Attachment C, Process Information.

The Container Storage Areas (CSAs) are identified as: ROOM 102, ROOM 103, ROOM 105, ROOM 106, ROOM 120, ROOM 121, ROOM 124, STORAGE AREA 126, CANOPY AREA 127, LOADING DOCK 100, RAILCAR AREA.

Total hazardous waste storage capacity of all container storage areas (CSAs) is limited to 313,280 gallons, 75 compressed gas cylinders, and 240 cubic yards aggregate facility-wide capacity.

A complete listing of waste storage areas covered under this Permit is provided below.

Table III-A Hazardous Waste Storage in CSAs

CSA	Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Quantity (gallons)*
Room 102	Hazardous waste – Flammable and combustible liquids and solids in containers excluding Class 1A flammable solids and compatible wastes in containers with or without free liquids present.	Ignitable liquids (D001) and solids excluding Class 1A flammable solids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	31,680 (576 55-gallon equivalents)
Room 103	Hazardous waste – Toxic liquids and solids in containers with or without free liquids.	Toxic liquids and solids as defined by hazardous waste codes D004-D043. No ignitable wastes (D001). See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	39,600 (720 55-gallon equivalents)
Room 105	Hazardous waste with or without free liquids	Compatible solids and liquids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	55,400 gallons (1,008 55-gallon equivalents; assumes double-stacked drums with 2-foot transfer aisles)
Room 106	Hazardous waste with or without free liquids	Compatible liquids and solids that are oxidizers or organic peroxides. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	39.6 tons (144 55-gallon drum equivalents); assumes double-stacked drums with 2-foot transfer aisles

CSA	Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Quantity (gallons)*
Room 120	Hazardous waste with or without free liquids	Pyrophoric liquids and solids (D001, D003, oxidizers). See Attachment A, Section A.5 for a detailed list of the waste codes that may be stored in this area.	2,650 gallons (48 55-gallon equivalents)
Room 121	Hazardous waste with or without free liquids	Compatible water-reactive liquids and solids; See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	3,520 gallons (64 55-gallon equivalents)
Room 124	Hazardous waste containing no free liquids	Ignitable and compatible liquids and solids (D001). See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	32,560 gallons (592 55-gallon equivalents; assumes double-stacked drums in racks with 2-foot transfer aisles)
Storage Area 126	Hazardous waste containing no free liquids	Compressed Gasses. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	50 gas cylinders (16,500 cubic feet)
Canopy Area 127	Hazardous waste containing no free liquids	Compatible solids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	240cubic yards (equivalent of 6 40 cubic yard-roll offs)
Loading Dock 100	Bulk hazardous waste than cannot be practically contained in POPs containers. Items may include soils, sludges, bulk equipment, etc.	Compatible solids and liquids except oxidizers, See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	20,800 gallons (4-5,200 gallon bulk tank trucks)
Railcar Area	Hazardous Waste – flammable liquids and compatible wastes in containers with or without free liquids.	Compatible solids and liquids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	120,000 gallons (4 30,000 gallon railcar equivalents)

* - Volumes are specified in gallons for liquids, alternate units for non-liquid wastes may also be specified, such as tons or cubic yards for solids and cubic feet for compressed gases.

B. PERMITTED AND PROHIBITED WASTE STORAGE

1. Hazardous Waste

The Permittee may store the following wastes in USDOT-approved containers at the facility, subject to the terms of this Permit and as follows:

(a) ROOM 102

ROOM 102 is located within the Waste Management and processing Building in the northwest portion of the site. The room is in the southeast corner of the building. The floor of the storage area is designed with a higher central ridge that functions to separate drainage within the into two regions (generally, north and south). A minimum of 2 feet of aisle space is

maintained between rows of stored wastes. See drawings A1.0, A1.1, A2.0-5, and A4.1 (all in Attachment C – Appendix C-B).

ROOM 102 is equipped with a fire sprinkler system designed as per Appendix E-B in Attachment E.

(i) Flooring of ROOM 102 shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) Only ignitable liquids and solids excluding Class 1A Flammable solids (including Magnesium) may be stored in ROOM 102.

(iii) Flammable solids must be stored in drums as referenced in the "Fire Sprinkler Design Requirements", Appendix E-B in Attachment E.

(iv) Drums along walls shall be placed in the racks as identified in Attachment C.

(v) Drums containing flammable liquids shall be only stacked 1 high unless they are placed in the racking identified in Attachment C. All other materials may be stacked no more than 2 pallets high.

(vi) The storage of materials in ROOM 102 is limited to only those chemicals that are known to be compatible with the epoxy coating used in ROOM 102 as evaluated by an independent third-party engineer.

Table III-B Storage of Hazardous Waste in ROOM 102

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste with or without free liquids.	Ignitable liquids (D001) and solids excluding Class 1A flammable solids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	31,680 (576 55-gallon equivalents)	DOT-approved shipping containers meeting POP standards

(b) ROOM 103

ROOM 103 is located inside the Waste Management and processing Building, directly east of ROOM 102. The floor of the storage area is engineered such that drainage will flow into one of two separate regions of the storage area (north/south); a minimum 8-foot aisle space is maintained

between the separate drainage areas and a minimum of 2 feet of aisle space is maintained between rows of stored wastes. See drawings A1.0, A1.1, A2.0-5, and A4.1 (all in Attachment C – Appendix C-B).

ROOM 103 is equipped with a fire sprinkler system designed to the level of NFPA's Ordinary Hazards Group II.

(i) Flooring of ROOM 103 shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) Materials in Room 103 may be stacked no more than 2 drums high in a pallet arrangement or 7 feet, whichever is greater.

(iii) The storage of materials in ROOM 103 is limited to allowed chemicals that are known to be compatible with the epoxy coating used in ROOM 103 as evaluated by an independent third-party engineer.

Table III-C Storage of Hazardous Waste in ROOM 103

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste – toxic liquids and solids in containers with or without free liquids.	Toxic liquids and solids as defined by hazardous waste codes D004-D043. No ignitable wastes (D001). See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	39,600 (720 55-gallon equivalents)	DOT-approved shipping containers meeting POP standards

(c) ROOM 105

ROOM 105 is located inside the Waste Management and processing Building. This area has a total storage area of approximately 4,320 square feet. A minimum of 2 feet of aisle space is maintained between rows of stored wastes. The storage area has the highest point in the center of the room from east to west so that any spills or leaks will move to the north or south sides of the room and then to a catch basin. Wastes are stored on pallets to prevent contact of wastes with accumulation of possible leaks or releases. See drawings A1.0, A1.1, A2.0-5, and A4.2 (all in Attachment C – Appendix C-B).

(i) Flooring of ROOM 105 shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) Materials in Room 105 may be stacked no more than 2 drums high in a pallet arrangement.

(iii) The storage of materials in ROOM 105 is limited to only those chemicals that are known to be compatible with the epoxy coating used in ROOM 105 as evaluated by an independent third-party engineer.

Table III-D Storage of Hazardous Waste in ROOM 105

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste with or without free liquids.	Compatible solids and liquids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	55,400 gallons (1,008 55-gallon equivalents; assumes double-stacked drums with 2-foot transfer aisles)	DOT-approved shipping containers meeting POP standards; Containers must be able to store corrosives safely.

(d) ROOM 106

ROOM 106 is located inside the Waste Management and processing Building. The area is 1,080 square feet. A minimum of 2 feet of aisle space is maintained between rows of stored wastes and a minimum of 8 feet of aisle space is maintained between the ends of the racks through the middle of the area. The storage area has the highest point in the center of the room from east to west so that any spills or leaks will move to the north or south sides of the room and then to a catch basin. Wastes are stored on pallets to prevent contact of wastes with accumulation of possible leaks or releases. See drawings A1.0, A1.1, A2.0-5, and A4.2 (all in Attachment C – Appendix C-B).

ROOM 106 is equipped with a fire-sprinkler system operated in accordance with NFPA 400 Chapter 5.

(i) Flooring of the CSA shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in ROOM 126 is limited to oxidizers and organic peroxides excluding Class 1 oxidizers, Class 4 oxidizers,

and Class 1 organic peroxides per the "Fire Sprinkler Design Requirements", Appendix E-B in Attachment E.

(iii) Materials in Room 106 may be stacked no more than 2 drums high in a pallet arrangement.

(iv) The storage of materials in ROOM 106 is limited to only those chemicals that are known to be compatible with the epoxy coating used in ROOM 106 as evaluated by an independent third-party engineer.

Table III-E Storage of Hazardous Waste in ROOM 106

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Weight (Tons)*	Type of Containers
Hazardous waste with or without free liquids	Compatible liquids and solids that are oxidizers or organic peroxides. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	39.6 tons (144 55-gallon drum equivalents); assumes double-stacked drums with 2-foot transfer aisles	DOT-approved shipping containers meeting POP standards

(e) ROOM 120

ROOM 120 is located inside the Waste Management and processing Building at the north-west corner. The area is approximately 756 square feet. A minimum of 2 feet of aisle space is maintained between rows of stored wastes. The storage area has the highest point at the east entrance so that any spills or leaks will move to the west side of the room and then to a catch basin. Wastes are stored on pallets to prevent contact of waste materials with any leaks or releases. See drawings A1.0, A1.1, A2.0-5, and A4.3 (all in Attachment C – Appendix C-B).

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in ROOM 120 must be in containers that meet the requirements of 49 CFR § 173.181.

(iii) Drum storage in this area must only be stacked one high.

(iv) The storage of materials in ROOM 120 is limited to only those chemicals that are known to be compatible with the epoxy coating

used in ROOM 120 as evaluated by an independent third-party engineer.

Table III-F Storage of Hazardous Waste in ROOM 120

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste containing with or without free liquids	Pyrophoric liquids and solids (D001, D003, oxidizers). See Attachment A, Section A.5 for a detailed list of the waste codes that may be stored in this area.	2,650 gallons (48 55-gallon equivalents)	DOT-approved shipping containers meeting POP standards, specifically containers meeting the requirements set out in 49 CFR § 173.181

(f) ROOM 121

ROOM 121 is located inside the Waste Management and processing Building adjacent to ROOM 120. The area is approximately 501 square feet. No free liquids are stored in this unit. A minimum of 2 feet of aisle space is maintained between rows of stored wastes. The storage area has the highest point at the east entrance so that any spills or leaks will move to the west side of the room and then to a catch basin. See drawings A1.0, A1.1, A2.0-5, and A4.3 (all in Attachment C – Appendix C-B).

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in ROOM 121 is limited to only those chemicals that are known to be compatible with the epoxy coating used in ROOM 121 as evaluated by an independent third-party engineer.

(iii) The storage of materials in ROOM 121 must be in containers that meet the requirements of 49 CFR 173.181.

(iv) Water reactive wastes must be secured in a water-tight/weather-proof container due to the presence of a sprinkler system within the building.

Table III-G Storage of Hazardous Waste in ROOM 121

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste with or without free liquids.	Compatible water-reactive liquids and solids; See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	3,520 gallons (64 55-gallon equivalents)	DOT-approved shipping containers meeting POP standards; Containers must be water-tight.
Water-reactive wastes	D003 (Water-reactive wastes only). See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	Included in above total	Reactive wastes must be over-packed or otherwise secured in water-resistant packaging.

(g) ROOM 124

ROOM 124 is located inside the Waste Management and processing Building. The area is approximately 3,402 square feet. A minimum of 2 feet of aisle space is maintained between rows of stored wastes. Wastes are stored on pallets to prevent contact of waste materials with accumulated storm water. See drawings A1.0, A1.1, A2.0-5, and A4.4 (all in Attachment C – Appendix C-B).

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in ROOM 124 is limited to only those chemicals that are known to be compatible with the epoxy coating used in ROOM 124 as evaluated by an independent third-party engineer.

Table III-H Storage of Hazardous Waste in ROOM 124

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste with or without free liquids	Ignitable and compatible liquids and solids (D001). See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	32,560 gallons (592 55-gallon equivalents; assumes double-stacked drums in racks with 2-foot transfer aisles)	DOT-approved shipping containers meeting POP standards

(h) Storage Area 126

The Storage Area 126 is on the exterior of the Waste Management and processing Building at the northwest corner and measures approximately 82 square feet. No free liquids are stored in this unit. The storage area is surrounded on four sides by a rolled berm which prevents storm water run-on from occurring. See drawings A1.0, A1.1, A2.0-5, and A4.3 (all in Attachment C – Appendix C-B).

(i) Flooring of the Storage Area 126 shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in the area is limited to only solids (hazardous waste containing no free liquids) and compressed gas cylinders as the area lacks secondary containment.

(iii) The storage of materials in the Storage Area 126 is limited to only those chemicals that are known to be compatible with the epoxy coating used in the Storage Area 126 as evaluated by an independent third-party engineer.

Table III-I Storage of Hazardous Waste in Storage Area 126

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Storage	Type of Containers
Hazardous waste compressed gasses containing no free liquids	Compressed Gasses. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	75 gas cylinders (24,750 cubic feet)	DOT-approved shipping containers meeting POP standards for compressed gas cylinders.

(i) Canopy Area 127

The Canopy Area 127 is located at the north side of the Waste Management and Processing Building and is open on the north, east, and west sides with a canopy overhead. The area is approximately 10,154 square feet. A minimum of 2 feet of aisle space is maintained between rows of stored wastes. No free liquids are stored in this area. Hazardous waste is stored in 40 cubic yard roll-off bins and drums. See drawings A1.0, A1.1, A2.0-5, and A4.3 (all in Attachment C – Appendix C-B).

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater

including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in the area is limited to only solids (hazardous waste containing no free liquids) as the area lacks secondary containment.

(ii) The storage of materials in the area is limited to only those chemicals that are known to be compatible with the epoxy coating used in the work stations as evaluated by an independent third-party engineer.

(iv) Roll-off units must be closed or otherwise equipped with suitable covers that will prevent the introduction of storm water or other forms of precipitation into the units except when receiving or removing waste materials. The units must be maintained such that liquids are not introduced into the units.

(v) Drum stacking is limited to one drum high in a 4-drum pallet arrangement.

Table III-J Storage of Hazardous Waste in Canopy Area 127

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste containing no free liquids.	Compatible solids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	240 cubic yards (equivalent of 6 40 cubic yard-roll offs)	DOT-approved shipping containers or roll offs meeting POP standards

(j) Loading Dock 100

Loading Dock 100 is located at the west end of the Waste Management and Processing Building and includes five bays used for loading/unloading of containers from trailers. The bays, excluding the southernmost bay, are used to stage incoming hazardous waste destined for the facility. See drawings A1.0, A1.1, A2.0-2.5, A4.1, A7.0 and A7.1 (all in Attachment C – Appendix C-B).

The southernmost bay is used as temporary stored under the 10-day “in transit” transfer provision (40 CFR 263.12). Only 10-day “in transit” containers which are compatible to the containers permitted to be stored in the area are allowed. The transfer waste volume is included in the maximum allowable volume for Loading Dock 100. Hazardous waste container management requirements (e.g. maximum stack height and aisle spacing) shall be maintained for any transfer waste containers not inside truck trailers.

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of materials in the area is limited to only those chemicals that are known to be compatible with the epoxy coating used in the area as evaluated by an independent third-party engineer.

(iii) Water reactive wastes must be secured in a water-tight/weather-proof container due to the presence of an automated sprinkler system within the work station units.

Table III-K Storage of Hazardous Waste in Loading Dock 100

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous Waste in containers with or without free liquids.	Compatible solids and liquids. See Attachment A, Appendix A-1 for a detailed list of the waste codes that may be stored in this area.	20,800 gallons (4-5,200 gallon bulk tank trucks)	DOT-approved shipping containers meeting POP standards

(k) Railcar Area

The Railcar Area is located at the north edge of the site. The facility has storage for railcars with a secondary containment system which is 18 feet wide by 320 feet long by 10.5 inches deep. See Exhibit A-2 in Permit Attachment A (Facility Description)

(i) Flooring of the area shall be maintained free of cracks, holes, fissures, or other surface anomalies that may result in the migration of wastes or materials to the sub-surface soil or groundwater including maintenance of the protective coating referenced in Attachment C.

(ii) The storage of water reactive wastes in the Railcar Area is prohibited.

Table III-L Storage of Hazardous Waste in Railcar Area

Description of Hazardous Waste	EPA Hazardous Waste Code	Maximum Volume (gallons)*	Type of Containers
Hazardous waste with or without free liquids.	Compatible liquids and solids except water reactive wastes See Attachment A, Section B for a detailed list of the waste codes that may be stored in this area.	120,000 gallons (4 30,000 gallon railcar equivalents)	DOT-approved shipping railcars meeting POP standards.

2. Waste and Product Maximum Storage Volumes

a. The Permittee shall not store more than a combined total of 172,480 gallons of hazardous wastes, computed as a site aggregate, in ROOMs 102, 103, 105, 106, 120, 121, and 124 at any time. Included within the 172,480 gallon (3,136 drums) combined total limit are wastes generated by very small quantity generators (VSQGs) which must be managed as hazardous wastes upon receipt by the Permittee at its facility.

b. The Permittee shall not store more than a combined total of 20,800 gallons (4 trucks) of hazardous wastes, computed as an aggregate, in the Loading Dock 100 at any time. Included within the 20,800 gallon combined total limit are wastes generated by very small quantity generators (VSQGs) which must be managed as hazardous wastes upon receipt by the Permittee at its facility.

c. The Permittee shall not store more than a combined total of 120,000 gallons (4 railcars) of hazardous wastes, computed as an aggregate, in the Railcar Area at any time. Included within the 120,000 gallon combined total limit are wastes generated by very small quantity generators (VSQGs) which must be managed as hazardous wastes upon receipt by the Permittee at its facility.

d. The Permittee shall not store more than a combined total of 75 compressed gas cylinders containing hazardous wastes in Storage Area 126 at any time. Included within the 75 cylinder limit are wastes generated by very small quantity generators (VSQGs) which must be managed as hazardous wastes upon receipt by the Permittee at its facility.

e. The Permittee shall not store more than a combined total of 240 cubic yards (6 40-yard roll offs) of hazardous wastes, computed as an aggregate, in the Canopy Area 127 at any time. Included within the 80 cubic yard combined total limit are wastes generated by very small quantity generators (VSQGs) which must be managed as hazardous wastes upon receipt by the Permittee at its facility.

f. Permittee shall not store more than the quantities listed in Section III. B.1 above in each of the CSAs.

3. Waste Segregation, Labels, and Container Types

The Permittee shall store hazardous waste only in US Department of Transportation (DOT) Performance Oriented Packaging (POPs)-approved container. All hazardous waste containers shall have a "Hazardous Waste" label to indicate their contents.

4. Container Configuration, Spacing, Stacking, Location

The Permittee shall store containers in the configurations shown on the plans contained in Attachment C, Process Information, and as shown in drawings A4.0 through A4.4 (all in Attachment C – Appendix C-B) and in accordance with any limitations that may be presented in secondary containment calculations or fire protection plans.

a. Maintain two (2) feet of aisle space (four feet between flammable and ignitable waste), in between stored containers to allow for the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation and other aisle spacing considerations as required by Permit Attachment C, Section 1.1.15

b. Container stacking height in each area is limited to no more than two containers per stack with specific areas limited to one container as noted in III.B. Should a stack consist solely of 5-gallon pails, then the stack shall not exceed 4 stacked containers in height.

c. Containers shall be placed on pallets and moved with hand carts, forklift trucks equipped with drum grappling tongs or forks, and pallet jacks in and out of containment areas.

d. Ignitable (D001) or reactive (D003) waste shall be stored at least 50 feet from all property boundaries.

e. Combustible materials, as defined under the 2006 IFC, may not be stored within 25-feet of either Tank Farm wall.

5. Specific Waste Storage Prohibitions and Land Disposal Prohibitions

a. Storage of hazardous waste in containers shall not exceed one year from its date of receipt.

[A.A.C. R18-8-268.A (40 CFR 268.50(c)]

b. The Permittee is prohibited from storing hazardous waste that is not identified in Permit Condition III.B.1.

c. The Permittee is prohibited from storing the following wastes:

(i) Medical waste as defined in A.R.S. §49-701.19 or biohazardous medical waste (see A.A.C. R18-13-1401(5)) unless Solid Waste Facility Plan approval is obtained pursuant to A.R.S. §49-762 and A.A.C. R18-13-1410;

(ii) Mixed waste (wastes that contain both a hazardous component regulated under AHWMA and a radioactive component consisting of source, special nuclear, or byproduct material regulated under the Atomic Energy Act); and

(iii) Polychlorinated biphenyls of a type or level regulated by the Toxic Substances Control Act (TSCA) (see 40 CFR Part 761), unless exempted, excluded or otherwise authorized pursuant to TSCA regulations;

A.A.C. R18-8-264.A (40 CFR 264.16, 264.31, 264.177), and 270.A (40 CFR 270.32(b))]

C. CONDITION OF CONTAINERS

1. In addition to routine documented inspections, containers are to be visually inspected each business day for signs of leakage, deterioration, or incompatibility amongst the container and its contents.

[A.A.C. R18-8-264.A (40 CFR § 264.175(b)(5)]

2. If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this Permit.

[A.A.C. R18-8-264.A (40 CFR § 264.171)]

3. Containers or liners that are to be disposed shall be decontaminated prior to disposal. Containers or liners that are not decontaminated, shall be considered by the Permittee to be a hazardous waste, and shall be managed as a hazardous waste.

[A.A.C. R18-8-261.A (40 CFR § 261.7)]

D. COMPATIBILITY OF WASTE WITH CONTAINERS

The Permittee shall ensure that the ability of the container to contain the waste is not impaired, as required.

[A.A.C. R18-8-264.A (40 CFR § 264.172)]

E. MANAGEMENT OF CONTAINERS

1. The Permittee shall keep all containers closed during storage, except when it is necessary to add or remove waste, and shall not open, handle, or store containers in a manner which may rupture the container or cause it to leak.

[A.A.C. R18-8-264.A (40 CFR § 264.173)]

2. Any containers which formerly held acutely hazardous waste are to be triple-rinsed with a suitable solvent capable of removing the residual acute hazardous waste, or the container is to be disposed of as a regulated hazardous waste.

[A.A.C. R18-8-264.A (40 CFR § 261.7(b)(3)]

3. All containers are to be managed in accordance with the emission control requirements provided at 40 CFR § 264 Subpart CC.

[A.A.C. R18-8-264.A (40 CFR § 264.179]

F. CONTAINMENT SYSTEMS

1. The Permittee shall maintain the containment systems in accordance with the descriptions contained in Attachment C (Process Information) and the associated engineering drawings included in Attachment C.

[A.A.C. R18-8-264.A (40 CFR § 264.175)]

2. Containment systems shall be sealed with a penetrant sealant in accordance with Appendix C-A of Attachment C, Process Information.

[A.A.C. R18-8-264.A (40 CFR § 264.175)]

3. The Permittee shall inspect all indoor containment sumps on a weekly basis. Accumulated liquids shall be removed from the containment sump within one day of discovery. If there are extenuating circumstances where it is not practical to remove the residue within one day of discovery, Permittee will document the situation with an explanation in the operating record.

[A.A.C. R18-8-264.A (40 CFR § 264.175)]

4. The Permittee shall expeditiously remove, characterize, and safely manage all precipitation collecting in secondary containment, including the establishment of an SOP for management of any precipitation that has accumulated in secondary containment systems. The SOP shall generally follow the guidelines of the ADEQ Precipitation Management SOP found in Permit Attachment C, Exhibit C-6. The SOP shall be submitted to the Director for approval in accordance with Permit Condition II.T.5

G. INSPECTION SCHEDULES AND PROCEDURES

1. The Permittee shall inspect the units on all work days, in accordance with the inspection schedule and procedures contained in Permit Attachment E, “Preparedness and Prevention Plan” (Appendix E-A) to detect leaking containers, and deterioration of containers and the containment system caused by corrosion and other factors.

[A.A.C. R18-8-264.A (40 CFR § 264.174) and Attachment E]

2. The Permittee shall inspect each unit on all work days for visible signs of residue, and shall remove all visible signs of residue from the floor surface on a daily basis.

[A.A.C. R18-8-264.A (40 CFR § 264.175(b)(5)) and Section F.2.1 of the Application]

H. RECORD KEEPING

The Permittee shall place the results of all waste analyses and trial tests and any other documentation showing compliance with the requirements of Permit Conditions III.K.1 and III.K.3 and A.A.C. R18-8-264.A (40 CFR § 264.17(b) and 264.177) in the facility operating record.

[A.A.C. R18-8-264.A (40 CFR § 264.73)].

I. CLOSURE

At closure of each unit, the Permittee shall remove all hazardous waste and hazardous waste residues from the containment system, in accordance with the procedures in the Closure Plan, Permit Attachment H.

[A.A.C. R18-8-264.A (40 CFR § 264.178)]

J. SPECIAL PROVISIONS FOR MANAGING IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE

Consolidation & Transfer of Wastes

a) The Permittee shall only perform waste consolidation, blending, and bulking under the supervisions of a Qualified (see definition I.B.17) professional.

b) The Permittee shall only perform consolidation and bulking of hazardous waste at the following locations (described in Attachment C process information):

  i) Locations **not** permitted for storage:
    (1) Processing Area 122
    (2) Processing Area 123
    (3) Consolidation Bays 1-5 named as Hood 115, 116, 117, 118, and 119
    (4) Shipping/Receiving Docks 101

  ii) Locations permitted for storage as well:
    (1) Canopy Area 127
      (a) Within the Canopy Area 127, only solids may be consolidated.
    (2) Railcar Area
      (a) Within the Railcar Area liquids must be consolidated within the secondary containment boundary.

K. SPECIAL CONTAINER PROVISIONS FOR IGNITABLE OR REACTIVE WASTE

1. The Permittee shall not locate containers holding ignitable or reactive waste within 15 meters (50 feet) of the facility's property line.

[A.A.C. R18-8-264.A (40 CFR § 264.176)].

2. The Permittee shall take precautions to prevent accidental ignition or reaction of ignitable or reactive waste and follow the procedures specified in Permit Attachment E, "Procedures to Prevent Hazards."

[A.A.C. R18-8-264.A (40 CFR § 264.17(a) and 264.176)]

3. The Permittee shall manage containers holding water reactive wastes in DOT-compliant containers for these wastes.

[A.A.C. R18-8-264A (40 CFR § 264.17(b))]

L. SPECIAL CONTAINER PROVISIONS FOR INCOMPATIBLE WASTE

1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same container.

[A.A.C. R18-8-264.A (40 CFR § 264.177(a))]

2. The Permittee shall only perform compatibility testing under the supervision of a Qualified (see definition I.B.17) professional (e.g., a degreed chemist, Supervisor, Environmental Compliance Manager).

[A.A.C. R18-8-264.A, 40 CFR 264.13, 264.17, 264.31, 270.32(b)(1), 270.32(b)(2)]

3. The Permittee shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material.

[A.A.C. R18-8-264.A (40 CFR § 264.177(b))]

4. The Permittee shall separate containers of incompatible wastes.

[A.A.C. R18-8-264.A (40 CFR § 264.177(c))]

PART IV – HAZARDOUS WASTE STORAGE AND TREATMENT IN TANKS

A. TANK MANAGEMENT SUMMARY

This Permit addresses the twelve tanks identified as Tanks 101, 102, 103, 104, 105, 106, 107, 108, 201, 202, 301, and 302.

The tank farm is described in the following documents: Attachment C, Process Information, Tank Systems and Drawings A1.0, A1.1, A2.0-3, A3.0 and A4.4 (all in Attachment C – Appendix C-B), Exhibits C-3, C-4, and Appendix C-D. In addition, Appendix C-E of Attachment C provides information on tank assessment reports. Emission control systems are described in Attachment D, Air Emissions Information with specific tank information located in Appendix D-A and D-C Standards for Process Vents, Equipment Leaks, and Air Emission Standards.

Hazardous waste treatment in tanks is authorized in specific tanks detailed below under this Permit.

B. PERMITTED AND PROHIBITED WASTE IDENTIFICATION

1. The Permittee may store a total volume of 177,440 gallons and 144 cubic yards of solid and liquid hazardous wastes, subject to the terms of this Permit and as follows:

Table IV-A Storage of Hazardous Waste in Tanks

Tank ID	Maximum Storage Capacity[1] (gallons)	Dimensions of Tank	Secondary Containment (gallons)	Description of Hazardous Waste[2]	Location of Tank	Exclusions
101	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
102	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
103	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
104	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
105	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
106	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.

Tank ID	Maximum Storage Capacity[1] (gallons)	Dimensions of Tank	Secondary Containment (gallons)	Description of Hazardous Waste[2]	Location of Tank	Exclusions
107	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
108	17,680	TBD[3]		Ignitable (D001) and non-ignitable compatible liquids	Outdoor Storage 128	No P-code wastes, D003 wastes, D002 wastes with a pH of less than or equal to 2, or oxidizers.
All tanks in Outdoor Storage 128			92,115 gallons (12,314 ft^3)			
201	18,000	TBD[3]			Corrosives Tank Farm (Outdoor Storage 125)	No P-code wastes, D001, D003 wastes, or oxidizers.
202	18,000	TBD[3]			Corrosives Tank Farm (Outdoor Storage 125)	No P-code wastes, D001, D003 wastes, or oxidizers.
All tanks in Outdoor Storage 125			31,972 gallons (4,274 ft^3)			
301	72 cubic yards	80 cubic yard tank			Bulk Loading Area 107 - Indoors	See Attachment A, Appendix A- for full list of allowable waste codes
302	72 cubic yards	80 cubic yard tank	2274 gallons		Bulk Loading Area 107 - Indoors	See Attachment A, Appendix A- for full list of allowable waste codes

[1] Storage capacity is listed at 90% of physical capacity of tank
[2] Prior to adding wastes to tanks, all wastes must be verified compatible with initial tank contents using methods and procedures identified in the Waste Analysis Plan.
[3]Exact dimensions to be provided upon tank installation accompanying the tank certification statement

2. The Permittee is prohibited from storing hazardous waste in the tank system that is not identified in Permit Condition IV.B.1.

3. The Permittee is prohibited from storing the following wastes in tanks:

   (a) Medical waste as defined in A.R.S. §49-701.19 or biohazardous medical waste (see A.A.C. R18-13-1401(5));

   (b) Mixed waste (wastes that contain both a hazardous component regulated under AHWMA and a radioactive component consisting of source, special nuclear, or byproduct material regulated under the Atomic Energy Act); and

(c) Polychlorinated biphenyls of a type or level regulated by the Toxic Substances Control Act (TSCA) (see 40 CFR Part 761), unless exempted, excluded or otherwise authorized pursuant to TSCA regulations.

4. Storage of hazardous wastes in tanks shall not exceed one year.

[A.A.C. R18-8-268.A (40 CFR § 268.50)(b)]

C. SECONDARY CONTAINMENT AND INTEGRITY ASSESSMENTS

The Permittee shall design, construct, operate and maintain the secondary containment system, in accordance with the design plans and descriptions contained in Attachment C, Process Information, Section 1.4.2, Tank Containment Systems and 1.4.3 Prevention of spills and overflows, Appendix C-C Containment Calculations, Appendix C-B Architectural Drawings, and Attachment E, Procedures to Prevent Hazards. The secondary containment areas, including berms, shall be sealed using chemically resistant coating specified in Attachment C and its associated Appendices, or other chemically resistant sealers as demonstrated to be compatible and approved by ADEQ.

[A.A.C. R18-8-264.A (40 CFR § 264.193(b)-(f))]

D. OPERATING REQUIREMENTS

1. The Permittee shall not place hazardous waste or treatment reagents in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail.

[A.A.C. R18-8-264.A (40 CFR § 264.194(a))]

2. The Permittee shall prevent spills and overflows from the tank or containment systems using the equipment, methods and procedures described in Attachment C, Process Information, and Attachment E, Preparedness and Prevention Plan.

[A.A.C. R18-8-264.A (40 CFR § 264.194(b))]

3. The Permittee shall operate the tanks in accordance with Attachment C, Process Information, and Attachment B, Waste Analysis Plan (WAP). Compatibility testing in accordance with the WAP must be performed each time waste is proposed to be added to a tank system. The results of the compatibility testing must be retained in the Operating Record.

4. The Permittee must maintain and operate the feed system, safety cutoff system, bypass and pressure control systems described in Exhibits C-3, C-4, and C-5 of Attachment C, Process Information and the document listed in Permit Section II.T.1, and in a manner that minimizes the potential for spills or overflows. As a minimum, these systems must meet the specifications identified in the document listed in Permit Section II.T.1.

[A.A.C. R18-8-264.A (40 CFR § 264.193)]

5. Tanks must be operated in accordance with Attachment C, Section 1.2 and Attachment D, Air Emissions Information.

[A.A.C. R18-8-264.A (40 CFR § 264.200 and 40 CFR § 264 Subpart CC)].

6. The waste transfer system, emission control system, and ancillary tank equipment must be operated in accordance with Attachment C, Section 1.2 and Attachment D, Air Emissions Information.

[A.A.C. R18-8-264.A (40 CFR § 264.200 and 40 CFR § 264 Subpart BB)].

7. An area 25 feet around the containment structure is required to be maintained clear of all combustibles to comply with the 2018 IFC.

[A.A.C. R18-8-264.A (40 CFR § 264.198)].

8. To ensure proper operation and control efficiency of the emission control system serving the tank farm, the Permittee shall adhere to the following operating requirements:

   (a) The tank fluid transfer pumping flow rate shall not exceed 100 gallons per minute.

   (c) The pressure relief setting for the conservation vents for each tank shall be set to the manufacturer's recommendation. The manufacturer's recommendation must be kept in the operating record.

   (d) Tank fluid transfer will be prohibited during carbon change out activities.

   (e) One carbon train (two canisters in a series) will remain in service at all times during carbon change out activities.

   (f) An operation and maintenance plan for the emission control system shall be developed (see Permit Part II.T.4). This plan shall include a monitoring procedure that identifies the protocol, the instrumentation to be used in taking field measurements, a statement as to the appropriateness of the use of that instrumentation for the monitoring scenario, and the conditions under which monitoring is to occur (e.g., monitoring must occur in conjunction with tank transfer activities).

[A.A.C. R18-8-264.A (40 CFR § 264.1087)].

9. Tank vents (both conservation and emergency vents) must be inspected annually for proper operation, prior to use of an associated tank that has been taken out of service for maintenance (which includes cleaning) to ensure that field conditions remain consistent with the values used in the carbon system calculations presented in the application. Vents must be inspected in accordance with Section IV.F. 5.

[A.A.C. R18-8-264.A (40 CFR § 264.1084(g)].

10. The Permittee shall expeditiously remove, characterize, and safely manage all precipitation collecting in secondary containment, including the establishment of an SOP for management of any precipitation that has accumulated in secondary containment systems. The SOP shall generally follow the guidelines of the ADEQ

Precipitation Management SOP found in Permit Attachment C, Exhibit C-6. The SOP shall be submitted to the Director for approval in accordance with Permit Condition II.T.5

E. RESPONSE TO LEAKS OR SPILLS

In the event of a leak or a spill from the tank system, from a secondary containment system, or if a system becomes unfit for continued use, the Permittee shall remove the system from service immediately and complete the following actions:

[A.A.C. R18-8-264.A (40 CFR §264.196(a) through (f))]

1. Stop the flow of hazardous waste into the system and inspect the system to determine the cause of the release.

2. Remove waste and accumulated precipitation from the system within 24 hours of the detection of the leak, to prevent further release, and to allow inspection and repair of the system. If the Permittee finds that it will be impossible to meet this time period, the Permittee shall notify the Director, and demonstrate that the longer time period is required.

   If the collected waste is a hazardous waste, it must be managed in accordance with all applicable requirements of A.A.C. R18-8-262 through 264 (40 CFR § 262-264). The Permittee shall note that if the collected waste is discharged through a point source to U.S. waters or to a POTW, it is subject to requirements of the Clean Water Act. If the collected waste is released to the environment, it may be subject to reporting under 40 CFR Part 302.

3. Contain visible releases to the environment. The Permittee shall immediately conduct a visual inspection of all releases to the environment, and based on that inspection:

   (a) Prevent further migration of the leak or spill to soils or surface water, and

   (b) Remove and properly dispose of any visible contamination of the soil or surface water.

4. Close the system in accordance with the Closure Plan (Permit Attachment H), unless the following actions are taken:
   (a) For a release caused by a spill that has not damaged the integrity of the system, the Permittee shall remove the released waste, and make any necessary repairs to fully restore the integrity of the system, before returning the tank system to service.

   (b) For a release caused by a leak from the primary tank system to the secondary containment system, the Permittee shall repair the primary system prior to returning it to service.

(c) For a release to the environment caused by a leak from the portion of the tank system component that is not readily available for visual inspection, the Permittee shall provide secondary containment that meets the requirements of A.A.C. R18-8-264.A (40 CFR § 264.193), before the component can be returned to service.

(d) If the Permittee replaces a component of the tank system to eliminate the leak, that component must satisfy the requirements for new tank systems or components in A.A.C. R18-8-264.A (40 CFR § 264.192 and 264.193).

5. For all major repairs to eliminate leaks or restore the integrity of the tank system, the Permittee must obtain a certification by an independent, qualified, registered professional engineer that the repaired system is capable of handling hazardous waste without release for the intended life of the system, before returning the system to service. Examples of major repairs are: installation of an internal liner, repair of a ruptured tank, or repair or replacement to the secondary containment system.

F. INSPECTION SCHEDULES AND PROCEDURES

1. The Permittee shall inspect the tank systems, in accordance with the inspection schedule and procedures contained in the Procedures to Prevent Hazards (Permit Attachment E), and shall complete the items in Permit Conditions IV.F.2. and IV.F.3. as part of those inspections.

2. The Permittee shall inspect the overfill controls, in accordance with the schedule and procedures contained in the Procedures to Prevent Hazards (Permit Attachment E). The results of weekly and annual testing of level control system components must be documented on a field inspection form or log, including:

(a) the specific control tested;

(b) the method of testing; and

(c) the result of testing.

Testing of each hazardous waste storage tank level switch shall be conducted annually and prior to the use of a tank that has been taken out of service for maintenance (which includes cleaning). Proper operating of each level indicator and transmitter shall be verified on a weekly basis during testing of control panel alarm outputs by comparing tank inventory log data to readouts at the associated control panel display. If any of the level control system components are found to be inoperable during testing or verification, associated tanks shall be taken out of service until the components are repaired, tested, and determined to be properly functioning. This documentation shall be placed in the Operating Record.

[A.A.C. R18-8-264.A (40 CFR §264.195(a))]

3. The Permittee shall inspect the following components of the tank system once each operating day, and at a minimum once each week during non-working weeks:
[A.A.C. R18-8-264.A (40 CFR §264.195(c))]

   (a) Aboveground portions of the tank system to detect corrosion, leaking, blisters, or releases of waste;

   (b) Pipes, connections, fittings and cords to ensure they are not damaged or leaking and are properly closed;

   (c) Flooring and drip pans for cracks, deterioration, wet spots, and accumulation of liquids;

   (d) The construction materials and area immediately surrounding the externally accessible portion of the tank system, including the secondary containment system, to detect erosion or signs of releases of hazardous waste (e.g., wet spots, dead vegetation);

   (e) Transfer hoses and pumps are to be inspected prior to each use in accordance with Attachment E, Procedures to Prevent Hazards, Exhibit E-A Inspection Plan; and

   (f) Operating data from monitoring and leak detection equipment (e.g. liquid level indicators, temperature and pressure gauges, and monitoring wells) to ensure that the tank system is being operated according to its design.
[A.A.C. R18-8-264.A (40 CFR § 264.195(b)]

4. The Permittee shall reinspect all tanks listed in Table IV-A, at least once every two (2) years following the issuance of this permit. The inspection report shall be retained in the facility operating record and must be certified by a registered professional engineer of an appropriate discipline. The re-inspection shall be in accordance with API Standard 653 and shall be comprehensive enough to provide a better estimate of tank life and/or when mitigation measures will be required.
[A.A.C. R18-8-264.A (40 CFR § 270.32(b))].

5. The Permittee shall inspect tank vents (both emergency and conservation vents) at least annually. The inspection process must include opening the vent, checking the swing for free operation, and verifying that vent components including pins and gaskets (as applicable) are in proper working condition (free of deformation or deterioration). The inspections must be documented on field inspection form or log that identifies the specific vent inspected. If any of the tank vents are found to be inoperable during the inspection, the associated tank shall be removed from service until the vent is repaired or replaced and determined to be properly functioning. These annual inspections and tests must be documented in the Operating Record.
[A.A.C. R18-8-264.A (40 CFR § 264.198)].

6. The Permittee shall document compliance with Permit Conditions IV.F.1, through IV.F.5, and place this documentation in the operating record for the facility.
[A.A.C. R18-8-264.A (40 CFR §264.195(d))]

G. RECORDKEEPING AND REPORTING

1. The Permittee shall report to the Director, within 24 hours of detection, when a leak or spill occurs from the tank system or secondary containment system to the environment.
[A.A.C. R18-8-264.A (40 CFR §264.196(d)(1)) and C]

2. A leak or spill of one pound or less of hazardous waste, that is immediately contained and cleaned-up, need not be reported.
[A.A.C. R18-8-264.A (40 CFR §264.196(d)(2))]

3. Releases that are contained within a secondary containment system need not be reported. If the Permittee has reported the release pursuant to 40 CFR Part 302 and A.R.S. §49-284, this report satisfies the requirements of this Permit Condition.
[A.A.C. R18-8-264.A (40 CFR §264.196(d)(1))]

4. Within 30 days of detecting a release to the environment from the tank system or secondary containment system, the Permittee shall report the following information to the Director:
[A.A.C. R18 8 264.A (40 CFR §264.196(d)(3))]

   (a) Likely route of migration of the release;

   (b) Characteristics of the surrounding soil (including soil composition, geology, hydrogeology, and climate);

   (c) Results of any monitoring or sampling conducted in connection with the release. If the Permittee finds it will be impossible to meet this time period, the Permittee should provide the Director with a schedule of when the results will be available. This schedule must be provided before the required 30-day submittal period expires;

   (d) Proximity of down gradient drinking water, surface water, and populated areas; and,

   (e) Description of response actions taken or planned.

5. The Permittee shall submit to the Director all certifications [see A.A.C. R18-8-264.A (40 CFR §264.192(g))] of major repairs to correct leaks within seven days from returning the tank system to use.
[A.A.C. R18-8-264.A (40 CFR §264.196(f))]

6. The Permittee shall obtain, and keep on file at the facility, the written statements by those persons required to certify the design and installation of the tank system as well as submit the initial certification to the Director.

[A.A.C. R18-8-264.A (40 CFR §264.192(g))]

H. CLOSURE CARE

1. At closure of the tank systems, the Permittee shall follow the procedures in the Closure Plan (Attachment H).

[A.A.C. R18-8-264.A (40 CFR §264.197(a))]

2. If the Permittee demonstrates that not all contaminated soils can be practically removed or decontaminated, in accordance with the Closure Plan (Attachment H), then the Permittee shall close the tank systems and perform post-closure care.

[A.A.C. R18-8-264.A (40 CFR § 264.197(b)]

I. SPECIAL TANK PROVISIONS FOR IGNITABLE OR REACTIVE WASTE

1. The Permittee shall not place ignitable or reactive waste in the tank system or in the secondary containment system, unless the procedures specified in the Preparedness and Prevention Plan (see Attachment E) are followed.

[A.A.C. R18-8-264.A (40 CFR §264.198(a))]

2. The Permittee shall comply with the requirements for the maintenance of protective distances between the waste management area and any public ways, streets, alleys, or an adjoining property line that can be built upon, as required in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981).

[A.A.C. R18-8-264.A (40 CFR §264.198(b))]

J. SPECIAL TANK PROVISIONS FOR INCOMPATIBLE WASTE

1. The Permittee shall not place incompatible waste, or incompatible waste and materials, in the same tank system or the same secondary containment system, unless the procedures specified in A.A.C. R18-8-264.A (40 CFR §264.17(b)) are complied with.

[A.A.C. R18-8-264.A (40 CFR §264.199(a))]

2. The Permittee shall not place hazardous waste in a tank system that has not been decontaminated, and that previously held an incompatible waste or material, unless the requirements of Permit Condition IV.J.1 are met.

[A.A.C. R18-8-264.A (40 CFR §264.199(b))]

K. SPECIAL TANK PROVISIONS FOR TREATMENT OF HAZARDOUS WASTES

1. Fuel Blending

The permittee is authorized to blend specific wastes to produce waste-derived fuels, which shall be managed as hazardous waste as described as follows:

(a) The wastes to be used for fuel blending must be suitable for burning in a combustion device capable of using the material as a usable fuel in conformance with all applicable state and federal environmental laws and regulations.

(b) Prior to introducing the wastes into the fuel blending process, the permittee shall take representative samples and analyze the samples in accordance with the Attachment B – Waste Analysis Plan and as specified in Permit Section III.D1-3 to determine if the waste is suitable for fuel blending.

Permittee's analysis of potential fuel blending waste must include: Specific Gravity, Heating Value (BTU), Total Halogen content, and PCBs.

(c) The waste derived fuel destined for burning as a fuel shall be shipped as hazardous waste under a hazardous waste manifest to the user of the said fuel, provided:

(i) The user is an installation which operates a combustion device capable of consuming said material as a usable fuel in conformance with all state and federal environmental standards as may be applicable to the installation,

(ii) The permittee has made the owner/operator of the recipient installation aware in writing that the material is derived from hazardous waste and use of the material is subject to the state and federal environmental regulations,

(iii) The permittee obtains documentation from the recipient installation that such installation possesses valid state and federal environmental permits required to operate a combustion device for burning hazardous waste derived fuel, and

(iv) The material conforms to all specifications established by the state and federal environmental regulations, permits or other approvals as are applicable to the recipient installation.

(d) Fuel blending shall only be performed in Tank 101, 102, 103, 104, 105, 106, 107 and 108 as described in Permit Section IV.B.1.

(e) The permittee shall not accept any waste from any generator without having made a prior determination that each waste stream is adequately classified

as a waste authorized for acceptance at the facility in accordance with the permit.

2. Stabilization

The permittee is authorized to perform stabilization on specific wastes as follows

(a) The permittee shall only treat the hazardous wastes listed in Attachment A Appendix A.1 and wastes that have proven to be effectively treated using stabilization in Tanks 301 and 302.

F listed waste codes are prohibited from being treated in Tanks 301 and 302.

(b) The permittee shall remove all waste from the stabilization tanks following the treatment process, utilizing the normal method of waste removal. The treatment process shall not exceed 72 hours. If there is waste remaining in the tank that cannot be removed by the normal method, the permittee shall apply the EPA waste codes of the batch of waste not entirely removed to the subsequent load(s) processed in the tank.

(c) The permittee, upon completion of treatment, shall sample and analyze any waste having undergone the stabilization treatment process in accordance with the Permittee's WAP to verify treatment effectiveness. The verification is to show that the waste treatment has met the intended purpose of the treatment, e.g., to comply with any of the treatment criteria established by the Permittee and meeting the definition of "treatment" as contained in R18-8-260.A (40 CFR 260.10). Such verification will be done within ten days of completion of treatment.

Verification testing to include at least leach testing via an appropriate EPA method and should further be able to show that the treated waste complies with the universal treatment standards.

[A.A.C. R18-8-268 (40 CFR §268.40)]

(d) Wastes that exhibit free liquids must have their unconfined compressive strength tested to show that the liquids have been bound chemically rather than absorbed.

(e) Treated waste shall continue to be managed as a hazardous waste onsite and shall be managed as a hazardous waste when transported off-site unless the waste no longer meets the definition of a hazardous waste, e.g., no longer exhibiting any hazardous waste characteristic or no longer containing any listed hazardous waste.

(f) The permittee is prohibited from disposing of stabilized wastes on site.

3. Annual Report on Treatment in Tanks

By March 1, of each calendar year, the Permittee shall submit to the Director a report on the wastes undergoing treatment in tanks. The report may be sent electronically to the ADEQ Permit Contact at hazwastepermits@azdeq.gov. The report shall be certified by the Permittee in accordance with R18-8-270.A (270.11(d)). The report shall include the following:

(a) The date(s) of treatment. The date(s) of treatment will be those dates in which wastes are introduced to the treatment process.

(b) The manifest identifications for the wastes subject to treatment,

(c) The quantity of wastes introduced for treatment in pounds or gallons, the hazardous waste identification codes, and the total quantity of the wastes treated,

(d) Treatment Effectiveness Testing: The date or dates in which the waste is tested for effectiveness of the treatment performed, and the result of the test. If the waste is retested due to failure of an initial test, the dates and results of the initial test and the dates and results of all follow-up testing.

(e) The destination of the treated waste, including EPA ID Number(s), if applicable, hazardous waste identification codes, if applicable, and the date in which the waste is transported offsite.

PART V – CORRECTIVE ACTION FOR SOLID WASTE MANAGEMENT UNITS – SCHEDULE OF COMPLIANCE

A. AUTHORITY

RCRA Section 3004(u), as amended by the HSWA, and A.A.C. R18-8-264.A (40 CFR § 264.101 and 40 CFR § 264, Subpart S) requires that Permits issued after November 8, 1984, address corrective action for releases of hazardous waste and hazardous waste constituents from any Solid Waste Management Unit (SWMU) at the facility, regardless of when the waste was placed in the unit.

When the Permittee discovers a new SWMU or an area of concern (AOC) at the facility, or determines a release has occurred, the facility will be governed by the conditions of this Permit Part (hereinafter referred to as the "Corrective Action Schedule of Compliance" or "CASOC").

B. SUMMARY OF PREVIOUS CORRECTIVE ACTION ACTIVITIES

1. RCRA Facility Assessment

A RCRA Facility Assessment (RFA) was conducted by ADEQ and a final report summarizing the findings and recommendations was prepared on February 20, 2024. A list and description of all SWMUs and AOCs based on the RFA is provided in Table V-1 under Permit Condition V.N. There was no evidence found of either releases of hazardous waste or significant exposure potential from any solid waste management unit at the facility. The RFA Report is contained in Permit Attachment K, Exhibit K-1.

C. SPECIFIC CORRECTIVE ACTION REQUIREMENTS

1. There are no specific corrective action requirements.

[A.A.C. R18-8-264.A (40 CFR § 264.101), A.A.C. R18-8-270.A, M, N, and O (40 CFR § 270.32), and A.A.C. R18-8-270.A (40 CFR § 270.33)]

D. GENERAL CORRECTIVE ACTION REQUIREMENTS

1. Record Keeping

As stated in Permit Condition I.E.10 (Monitoring and Records), all raw data, such as laboratory reports, drilling logs, bench-scale or pilot-scale data, and other supporting information gathered or generated during activities undertaken pursuant to this CASOC shall be maintained at the facility during the term of this Permit.

2. Reporting, Notifications and Submittals

(a) The Permittee shall submit to the Director signed annual progress reports of all activities (i.e., SWMU Assessment, Interim Corrective Measures, RCRA Facility Investigation, Corrective Measures Study, Corrective Measures Implementation) conducted pursuant to the provisions of this CASOC, beginning no later than (90) calendar days after the Permittee is first required to begin implementation of any requirement herein. These reports shall contain:

i. A description of the work completed;

ii. Summaries of all problems or potential problems encountered during the reporting period and actions taken to correct the problems;

iii. Projected work for the next reporting period with a detailed schedule for this work.

(b) Copies of other reports (e.g., inspection reports), drilling logs and laboratory data shall be made available to the Director upon request.

(c) The Director may require the Permittee to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information. These assessments, investigations or studies may be required following review of the Permittee's RCRA Facility Investigation Reports, Corrective Measures Study Work Plan (see V.I.3), or Corrective Measures Study Report (see V.I.6), or Corrective Measures Implementation Program Plan (See V.K), which will be submitted as Class 1 Permit Modification requests requiring Director approval.

(d) The Permittee shall ensure that all plans, reports, notifications, and other submissions to the Director required by this Permit are signed, certified, and submitted in accordance with Permit Condition I.C (Permit Actions), I.E.11 (Signatory and Certification Requirements), and other applicable conditions. Technical work submitted to the Director shall be stamped by a professional Geologist and/or Engineer, as appropriate, registered in the State of Arizona.

3. Contamination that has Migrated Beyond the Facility Boundary, if Applicable

The Permittee shall implement corrective actions beyond the Facility boundary where necessary to protect human health and the environment, unless the Permittee demonstrates to the satisfaction of the Director that, despite the Permittee's best efforts, as determined by the Director, the Permittee was unable to obtain the necessary permission to undertake such actions. The Permittee is not relieved of all

responsibility to clean up a release that has migrated beyond the Facility boundary where off-site access is denied. On-site measures to address such releases will be determined on a case-by-case basis. Assurances of financial responsibility for completion of off-site corrective action will be required. Any determination by the Director requiring the Permittee to address such releases, including any associated financial responsibility requirements, will be made as a Permit Modification request, requiring the Director's approval.

4. Quality Assurance and Control

When performing Corrective Action, the Permittee shall follow the guidance specified below for any sampling and sampling testing:

(a) Sample Collection and Management:

A sampling plan submitted by the Permittee shall include all elements of EPA SW-846, and A.A.C.R18-8-260 et seq. (40 CFR Part 260 et seq.), not limited to:

i. Specifying the sampler and sampler procedure for use;

ii. Specifying sampling points based on a statistical basis, logic and strategy;

iii. Trip blanks, duplicates, spikes, splits, and other field control samples; and,

iv. Sample management procedures for the field notebook, collection form, preservatives and capping, and other chain-of-custody components.

(b) Laboratory Analysis and Chain-of-Custody:

Throughout all sample analysis activities, the Permittee shall ensure the use of Director-approved quality assurance, quality control, and chain-of-custody procedures. In addition, the Permittee shall:

i. Inform the Director's Project Coordinator which laboratories will be used by the Permittee.

ii. Ensure that all laboratories used by the Permittee for its analyses participate in a quality assurance/quality control program equivalent to that described in EPA SW-846. As part of such a program, and upon request by the Director, such laboratories shall perform analyses of a reasonable number of known samples provided by the Director to demonstrate the quality of the analytical data.

iii. Ensure that the laboratory used is licensed by the Arizona Department of Health Services (ADHS) to perform the specific analyses for the specific analyte(s) of concern.

(c) Evaluation of Sampling Data:

The Permittee shall ensure that sampling plans contain provisions for review of all field and laboratory QA/QC notes and results, and shall use EPA SW 846 to evaluate all data developed in compliance with this Permit. Sampling plans must demonstrate the use of representative samples and must include parameters sufficient to identify migration of hazardous waste and hazardous constituents to the environment.

5. Project Coordinator

The Permittee will assign a Project Coordinator within 30 days of a written request by ADEQ. The Permittee's Project Coordinator shall be responsible for overseeing the implementing of corrective action at the Facility in accordance with this Part of the Permit and for designating a person to act in his/her absence. ADEQ will also designate a Project Coordinator. All communications between the Permittee and ADEQ, and all documents, reports, approvals, and other correspondence concerning the activities performed pursuant to this Permit shall be directed through the Project Coordinators. The Permittee must provide at least seven (7) calendar days written notice to ADEQ prior to changing the Project Coordinator.

E. NOTIFICATION AND ASSESSMENT OF NEWLY IDENTIFIED SWMU(s) OR AOC(s)

1. Notification of Newly Identified SWMU(s) or AOC(s)

The Permittee shall notify the Director in writing of any newly identified SWMUs or AOCs (i.e., a unit not specifically identified during the RFA), discovered during the course of the groundwater monitoring, field investigations, environmental audits, or other means, no later than fifteen (15) calendar days after its discovery. The notification shall include, at a minimum, the location of the SWMU or AOC and all available information pertaining to the nature of the release (e.g., media affected, hazardous constituents released, magnitude of release).

2. Request for SWMU Assessment Plan

After such notification, the Director may require in writing, that the Permittee prepare a SWMU Assessment Plan and a proposed schedule of implementation and completion of the SWMU Assessment Plan for any additional SWMU(s) or AOC(s) discovered subsequent to the issuance of this Permit. This plan will be submitted as a Class 1 Permit Modification request requiring Director approval.

3. Content and Submittal of SWMU Assessment Plan

Within sixty (60) calendar days after receipt of the Director's request for a SWMU Assessment Plan, the Permittee shall prepare and submit a SWMU Assessment Plan for determining past and present operations at the unit, as well as any sampling and analysis of groundwater, land surface and subsurface strata, and surface water or air, as necessary to determine whether a release of hazardous waste including hazardous constituents from such unit(s) occurred, is likely to have occurred, or is likely to occur. The SWMU Assessment Plan must demonstrate that the sampling and analysis program, if applicable, is capable of yielding representative sampling and must include parameters sufficient to identify migration of hazardous waste including hazardous constituents from the newly discovered SWMU(s) to the environment.

4. Review and Approval or Disapproval of SWMU Assessment Plan

After the Permittee submits the SWMU Assessment Plan, the Director shall either approve or disapprove the SAP in writing. If the Director disapproves of the SWMU Assessment Plan, the Director shall either:

(a) Notify the Permittee in writing of the SWMU Assessment Plan deficiencies and specify a due date for submittal of a revised SWMU Assessment Plan, or

(b) Revise the SWMU Assessment Plan and notify the Permittee of the revisions. The Director-revised SWMU Assessment Plan becomes the approved SWMU Assessment Plan, and constitutes the approval of the Class 1 Permit Modification request specified in Condition E.2, above.

(c) The approved SWMU Assessment Plan shall be incorporated into Permit Attachment K .

5. Implementation of the SWMU Assessment Plan

The Permittee shall implement the SWMU Assessment Plan within fifteen (15) calendar days of receiving written approval.

6. Content and Submittal of SWMU Assessment Report (SAR)

The Permittee shall submit a SWMU Assessment Report (SAR) to the Director no later than forty-five (45) calendar days from completion of work specified in the approved SWMU Assessment Plan. The Report will be submitted as Class 1 Permit Modification request, requiring the Director's approval. The SAR shall describe all results obtained from the implementation of the approved SWMU Assessment Plan. At a minimum, the SAR shall provide the following information for each newly identified SWMU:

(a) The location of the newly identified SWMU in relation to other SWMUs;

(b) The type and function of the unit;

(c) The general dimensions, capacities, and structural description of the unit, including any available drawings;

(d) The period during which the unit was operated;

(e) The specifics on all wastes that have been or are being managed at the SWMU, to the extent available; and

(f) The results of any sampling and analysis required for the purpose of determining whether releases of hazardous waste including hazardous constituents have occurred, are occurring, or are likely to occur from the unit.

7. SAR Approval and Determination of Further RFI Action

(a) Based on the results of the SAR, the Director shall determine the need for further investigations at specified unit(s) covered in the SWMU Assessment, and may require the Permittee to prepare an RFI Work Plan or a Site Assessment Plan (SP) [see Condition V.L (Site Assessment and Remedy) of this Permit part] for such investigations. If the Director determines that investigations are needed, the Director shall incorporate his determination into the SAR approval. The SAR and SAR Approval shall constitute approval of the Permittee's Class 1 Permit Modification request. The final approved SAR shall then be incorporated into Permit Attachment K.

(b) The RFI Work Plan or SP described in Condition V.E.7.(a) will be reviewed for approval pursuant to Condition V.H (RFI Work Plan and Reports) or Condition V.L (Site Assessment and Remedy) of this Permit Part, as specified by the Director. The RFI Work Plan will be submitted to the Director as a Class 1 Permit Modification request, requiring the Director's approval.

F. NEWLY DISCOVERED RELEASES AND THREATS TO HEALTH AND THE ENVIRONMENT

1. Notification Requirements

The Permittee shall notify the Director, in writing, of any release(s) of hazardous waste, including hazardous constituents, discovered during the course of groundwater monitoring, field investigation, environmental auditing, or other activities undertaken after commencement of the RFI or the SP [see Condition L (Site Assessment and Remedy) of this Permit part], no later than fifteen (15)

calendar days after their discovery. Such newly discovered releases may be from newly identified units, from units for which, based on the findings of the RFA, the Director had previously determined that no further investigation was necessary, or from units investigated as part of RFI or the SP.

In the event the Permittee identifies a current and/or potential threat to human health or the environment, the Permittee shall immediately notify the Director orally, and in writing within seven (7) calendar days, summarizing immediacy and magnitude of these threats.

2. Interim Measures for Current or Potential Threats

Within forty-five (45) calendar days of notifying the Director, the Permittee shall submit to the Director for approval an Interim Measures (IM) Work Plan, pursuant to Condition V.G of this Permit Part (Interim Measures) that identifies interim measures which mitigate this threat and are consistent with, and integrated into, any long-term solution at the facility. The Work Plan shall be submitted as a Class 1 request, requiring the Director's approval. The approved IM Work Plan constitutes approval of the Permit Modification request. The approved IM Work Plan shall be incorporated into Permit Attachment K.

3. Further Investigations

The Director may require further investigation of newly identified release(s). A plan for such investigation will be submitted by the Permittee as a Class 1 Permit Modification request, requiring the Director's approval. The Plan shall be reviewed pursuant to Condition V.H (RFI Work Plan and Report) or Condition V.L (Site Assessment and Remedy) of this Permit, as specified by the Director.

G. INTERIM MEASURES

1. Determination that Interim Measures are Needed

If during the course of any activity initiated under this CASOC, the Director or Permittee determines that a release or potential release of hazardous waste, including hazardous constituents from a SWMU poses an actual, imminent, or potential threat to human health or the environment, the Director and Permittee may determine that interim measures are necessary. Interim stabilization measures consistent with final remedy may be deployed during ongoing investigations. The following factors should be considered in this determination:

(a) Time required to develop and implement a final remedy;

(b) Actual and potential exposure to the environment (e.g., animals, ecosystems) and/or human receptors;

(c) Actual and potential contamination of drinking water supplies and sensitive ecosystems;

(d) Potential for further degradation of the medium absent interim measures;

(e) Presence of hazardous waste in containers that may pose a threat of release;

(f) Presence and concentration of hazardous waste (including hazardous constituents, in soils having potential to migrate to ground or surface water);

(g) Weather conditions that may affect the current levels of contamination;

(h) Risks of fire, explosions, or accident; and

(i) Other situations that may pose threats to human health and the environment.

2. Specifying Interim Measures and Actions

(a) When it is determined that interim measures are needed, an Interim Measures (IM) Work Plan shall be developed that will include, but not be limited to, the following elements:

(i) What interim measures need to be taken;

(ii) Specific action(s) that must be taken to implement the interim measure;

(iii) Schedule for their implementation; and

(iv) Parameters or measurements by which to judge the completion of the measures.

(b) Either the Director or the Permittee shall develop the IM Work Plan as follows:

(i) The Director may notify the Permittee in writing of the requirement to perform specific interim measures. If the Permittee concurs, the Permittee shall begin to implement the interim actions within fifteen (15) calendar days after receiving notification. The Director shall modify the CASOC according to Condition H of Permit Part I (Permit Modification). Interim Measures do not require a public comment period until the measures are incorporated into the CMS Work Plan and Report described in Condition V.I of this Permit.

(ii) The Director may notify the Permittee in writing that the Permittee is required to develop an IM Work Plan. In this event, the Permittee shall submit the IM Work Plan within thirty (30) calendar days after

request. The IM Work Plan shall be submitted as a Class 1 Permit modification request, requiring the Director's approval.

3. Review and Approval or Disapproval of IM Work Plan

After the Permittee submits the IM work plan, the Director shall either approve or disapprove the IM Work Plan in writing. If the Director disapproves the IM Work Plan, the Director shall either:

(a) Notify the Permittee in writing of the IM Work Plan's deficiencies and specify a due date for submittal of a revised Plan, or

(b) Revise the IM Work Plan (this revised Work Plan becomes the approved IM Work Plan) and notify the Permittee of the revisions. The approved IM Work Plan constitutes approval of the Class 1 Permit Modification request specified in Condition V.G.2(b)(ii). The final approved IM Work Plan shall then be incorporated into Permit Attachment K.

4. Implementation of the IM Work Plan

The Permittee shall implement interim actions within fifteen (15) calendar days after receiving approval or notification of any revisions requested by the Director.

H. RCRA FACILITY INVESTIGATION (RFI) WORK PLAN AND REPORTS

1. Submittal of RFI Work Plan

RFI Work Plans may be required at future times in order to determine potential or actual impacts on human health and the environment.

2. Content and Submittal of RFI Work Plan

Within sixty (60) days after receiving a request from the Director, the Permittee shall submit a complete RFI Work Plan to the Director. The RFI Work Plan shall be submitted as a Class 1 Permit Modification request, requiring the Director's approval. The Work Plan shall address in detail SWMUs, releases of hazardous waste, hazardous constituents, and media of concern which require further investigations.

(a) The Work Plan shall describe the objectives of the investigation and the overall technical and analytical approach to completing all actions necessary to characterize the nature, direction, rate, movement, and concentration of releases of hazardous waste (including hazardous constituents) from specific units or groups of units, and their actual or potential receptors. The Work Plan shall detail all proposed activities and procedures to be conducted at the facility, the schedule for implementation and completing such investigations, the qualifications of personnel

performing or directing the investigations, including contractor personnel, and the overall management of the RFI.

(b) The Plan shall discuss sampling and data collection quality assurance and data management procedures listed in Condition D.4 of this Permit Part (Quality Assurance and Control), including formats for documenting and tracking data and other results of investigation, and health and safety procedures.

3. Review and Approval or Disapproval of RFI Work Plan

The Director shall review the RFI Work Plan for proper content and those RFI Work Plan elements applicable to the facility. After review, the Director will either approve or disapprove the RFI Work Plan in writing. If the Director disapproves the RFI Work Plan, the Director shall either:

(a) Notify the Permittee in writing of the RFI Work Plan's deficiencies and specify a due date for submittal of a revised RFI Work Plan; or

(b) Revise the RFI Work Plan and notify the Permittee of the revisions. This modified RFI Work Plan becomes the approved RFI Work Plan and constitutes approval of the Class 1 Permit Modification request in V.H.2.

The Director shall also review for approval as part of the RFI Work Plan any plans developed addressing further investigations of newly identified SWMUs (Condition F of this Permit Part).

If approved, the RFI Work Plan will be incorporated into Permit Attachment K. If the Director approves the RFI Work Plan, the Permittee shall, within ninety (90) calendar days of receipt of approval, send a Class 1 Permit Modification notice to all individuals on the facility mailing list maintained by the Director in accordance with A.A.C. R18-8-270.A and 270.I(c)(1)(ix) and (x) [40 CFR § 124.10(c)(1)(ix) and (x)]. The notice shall include a summary of the approved RFI Work Plan and describe the change made to Permit Attachment K.

4. Implementation of RFI Work Plan

No later than thirty (30) calendar days after the Permittee has received written approval from the Director for the RFI Work Plan, the Permittee shall begin implementing the RFI according to the schedules and procedures specified in the RFI Work Plan.

5. Content and Submittal of RFI Interim or Final Report

Within sixty (60) calendar days after the completion of the RFI Work Plan or other schedule approved by the Director, the Permittee shall submit:

(a) An RFI Interim or Final Report

The RFI Interim or Final Report shall be submitted as a Class 1 Permit Modification request, requiring the Director's approval. The RFI Interim or Final Report shall describe the procedures, methods, and results of all facility investigations of SWMUs and their releases, including information on the type and extent of contamination at the facility, sources and migration pathways, and actual or potential receptors. The RFI Interim or Final Report shall present all information gathered under the approved RFI Work Plan. The RFI Interim or Final Report must adequately define all soil or groundwater sources of contamination and contain adequate information to support further corrective action decisions at the facility.

(b) Determination of No Further Actions with Modification

Based on the results of the RFI and other relevant information, the Permittee may submit an RFI-Based Determination of No Further Action (NFA) with a proposed Class 3 Permit modification to the Director requesting termination of any Corrective Action Required. The NFA Determination and proposed Class 3 Permit modification, will be processed pursuant to requirements of Permit Part I and must contain Information demonstrating that there are no releases of hazardous wastes (including hazardous constituents) from SWMUs at the facility that pose a threat to human health and the environment. It must also include information required in A.A.C. R18-8-270.A (40 CFR § 270.42(c), which incorporates by reference 40 CFR § 270.13 through 270.21, 270.62, and 270.63), and state if:

(i) Contamination is found to be non-existent;
(ii) Contaminant levels and subsequent risks are insignificant compared to existing background levels (i.e. levels are naturally occurring);
(iii) Contamination results from releases originating from outside the facility;
(iv) Groundwater is neither a current or potential source of drinking water, impacts potentially vulnerable Class I ground waters, nor is potentially usable for other human purposes;
(v) Contamination is located adjacent to industrialized, non-residential areas.

6. Review and Approval or Disapproval of RFI Interim or Final Report

The Director shall review the RFI Interim or Final Report submittal (and NFA Determination, if applicable), and either approve or disapprove the Report and NFA Determination in writing.

(a) If the Director disapproves the RFI Report, the Director shall notify the Permittee in writing of the Report's deficiencies and specify a due date for submittal of the revised Report.

(b) RFI Interim or Final Report without NFA Determination: If the Director approves the Report, the approval constitutes approval of the Permit Modification request of Condition V.H.5(a). The Permittee shall, within ninety (90) calendar days of receipt of approval, send a Class 1 Permit Modification notice to all individuals on the facility mailing list maintained by the Director in accordance with A.A.C. R18-8-271.A and 271.I(c)(1)(ix) and (x) [40 CFR § 124.10(c)(1)(ix) and (x)]. The notice shall include a summary of the approved RFI Interim or Final Report and describe the change made to Permit Attachment K.

(c) RFI Interim or Final Report with NFA Determination: If, based upon review of the Permittee's NFA Determination and proposed Class 3 Permit Modification request, the results of the RFI, and other information (including comments received during the public comment period), the Director determines that releases or suspected releases which were investigated either are non-existent or do not pose a threat to human health and the environment, the Director may grant the requested modification. However, the NFA approval does not preclude the Director from initiating other modifications to the CASOC according to procedures in 40 CFR § 270.41 (Director-initiated Permit Modifications) that may rescind the determination or require the Permittee to perform:

(i) Continued or periodic monitoring of air, soil, groundwater, or surface water, when site-specific circumstances indicate that releases of hazardous wastes (including hazardous constituents) are likely to occur, if necessary to protect human health and the environment;
(ii) Further investigations, studies, or remediation at a later date, if new information or subsequent analysis indicates a release or likelihood of a release from a SWMU is likely to pose a threat to human health or the environment.

Upon approval of the RFI Interim or Final Report with NFA Determination and Class 3 Permit Modification request, the RFI Interim or Final Report and NFA Determination will be incorporated into Permit Attachment K.

I. CORRECTIVE MEASURES STUDY (CMS) PLAN AND REPORT

1. Call-in of the Corrective Measures Study

(a) For existing SWMUs: Within forty-five (45) calendar days after the Director's written approval of the RFI Report required by Condition V.C.1

and V.C.2 (reviewed and approved in accordance with Condition V.H), the Permittee shall submit a CMS Work Plan and Class 1 Permit Modification request requiring the Director's approval in accordance with Condition V.I.2, below.

(b) For newly-identified SWMUs: If the Director has reason to believe, after review of the RFI Final Report, that a SWMU has released concentrations of hazardous constituents in excess of any action level, or determines that contamination present at levels below those action levels pose a threat to human health and the environment given site specific exposure conditions, the Director may require a Class 1 Permit Modification for a CMS, and shall so notify the Permittee in writing.

2. Content and Submittal of CMS Plan

The Permittee shall submit a Class 1 Permit Modification request requiring the Director's approval and a CMS Work Plan to the Director within forty-five (45) calendar days after notification of the requirement to conduct a CMS. The CMS Plan shall provide the following information:

(a) Description of general approach to investigate and evaluate potential remedies;

(b) Definition of the overall study objectives;

(c) The specific plans and factors for evaluating remedies to ensure compliance with remedy standards, as stated in Permit Condition V.J (Remedy Selection);

(d) The schedules for conducting the study;

(e) Proposed format for presentation of the information; and

(f) An assessment of the existing data and the additional data needed to evaluate the feasibility of all proposed corrective actions.

3. Review and Approval or Disapproval of CMS Plan

The Director should review the CMS Plan to ensure it contains all necessary contents.

(a) If the Director disapproves the CMS Plan, the director shall either:

(i) Notify the Permittee in writing of the Plan's deficiencies and specify a due date for submittal of a revised Plan, or

(ii) Revise the CMS Plan and notify the Permittee of the revisions. This modified CMS Plan becomes the approved CMS Plan.

(b) If the Director approves the CMS Work Plan, the Permittee shall, within ninety (90) calendar days of receipt of approval, send a Class 1 Permit Modification notice to all individuals on the facility mailing list maintained by the Director in accordance with R18-8-270.A and 270.I(c)(1)(ix) and (x) [40 CFR § 124.10(c)(1)(ix) and (x)]. The notice shall include a summary of the approved CMS Work Plan and describe the change made to Permit Attachment K.

4. Implementation of CMS Plan

No later than fifteen (15) calendar days after the Permittee has received written approval from the Director for the CMS Work Plan, the Permittee shall implement the CMS Work Plan according to the schedules and procedures specified in the CMS Work Plan.

5. Content and Submittal of CMS Final Report

Within sixty (60) calendar days after the completion of the CMS tasks, the Permittee shall submit a Class 1 Permit Modification request requiring the Director's approval and the CMS Report. The CMS Report must contain adequate information to support the Director in the remedy selection decision-making process and shall include, at a minimum:

(a) A summary of results of investigations, and any bench-scale or pilot tests conducted for each remedy studied. The CMS Report shall include all data needed to evaluate the feasibility of the proposed corrective measures or propose additional data collection efforts necessary to evaluate corrective measures;

(b) A description and evaluation of each remedial alternative which passed through the initial screening of corrective measure technologies;

(c) All information gathered under the approved CMS Plan with Performance standards streamlined;

(d) The recommended corrective measure(s), and a justification for selection of the corrective measure(s) recommended.

6. Review and Approval or Disapproval of CMS Final Report and Remedy

The Director shall approve, approve with modifications, or disapprove the draft CMS Report and will advise the Permittee of the determination in writing. The Director shall select the remedy according to Condition V.J (Remedy Selection). In

all cases, the Director may require the Permittee to evaluate additional remedies or particular elements of the proposed remedies.

(a) If the Director disapproves the CMS Report, the Director shall notify the Permittee in writing of deficiencies in the CMS Report and specify a due date for submittal of a revised CMS Report.

(b) If the Director approves or approves with modifications the CMS Report, the approved CMS Report constitutes approval of the Permit Modification request of Condition V.I.5). The CMS Report will be incorporated into Permit Attachment K. If the Director approves the CMS Report, the Permittee shall, within ninety (90) calendar days of receipt of approval, send the Class 1 Permit Modification notice to all individuals on the facility mailing list maintained by the Director in accordance with R18-8-270.A and 270.I(c)(1)(ix) and (x) [40 CFR § 124.10(c)(1)(ix) and (x)]. The notice shall include a summary of the approved CMS Report and describe the change made to Permit Attachment K.

(c) Within forty-five (45) calendar days of receipt of the Director's approval, or approval with modifications, of the proposed corrective measure(s), the Permittee shall submit a CMI Program Plan for the remedy selected pursuant to Condition V.K (Corrective Measures Implementation).

J. REMEDY SELECTION

1. Remedy Standards

Based on results of the CMS and any further evaluations of additional remedies, the Director shall select a remedy from the remedial alternatives evaluated in the CMS that will protect human health and the environment; meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; control the course(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat to human health and the environment; and meet all applicable waste management requirements.

2. Technical Evaluation Factors of Remedy

In approving the recommended remedy(s) which meets the standards for remedies established above, the Director shall consider the following evaluation factors, as appropriate:

(a) Long-term reliability and effectiveness

To establish the degree of certainty that the remedy will prove successful, evaluate the:

i. Magnitude of residual risks in terms of amounts and concentrations of waste remaining following remedy implementation, considering the persistence, toxicity, mobility and propensity to bio-accumulate of such hazardous wastes including hazardous constituents;
ii. Type and degree of long-term management required, including monitoring, operation and maintenance;
iii. Exposure potential of humans and environmental receptors to remaining wastes, considering potential threats to human health/environment associated with excavation, transportation, re-disposal or containment;
iv. Long-term reliability of the engineering and institutional controls, including uncertainties associated with land disposal of untreated wastes and residuals;
v. Potential need for replacement of the remedy.

(b) Reduction of toxicity, mobility, and volume

The degree to which a potential remedy employs treatment that reduces toxicity, mobility, or volume of hazardous wastes (including hazardous constituents) that shall be considered include:

i. The treatment processes the remedy(s) employs and materials it would treat;
ii. Amount of hazardous wastes (including hazardous constituents) that would be destroyed or treated;
iii. The degree to which the treatment is irreversible; and
iv. The residuals that will remain following treatment, considering the persistence, toxicity, mobility and propensity to bio-accumulate of such hazardous wastes (including hazardous constituents).

(c) Short-term effectiveness.

Assess potential remedy(s) for short-term effectiveness considering:

i. Magnitude of reduction of existing risks;

ii. Short-term risks that might be posed on the community, workers, or environment during implementation of such remedy, including potential threats to human health and the environment associated with excavation, transportation, re-disposal or containment; and
iii. Time until full protection is achieved.

(c) Implementability.

The ease or difficulty of implementing a potential remedy(s) may be assessed by considering the following types of factors:
i. Degree of difficulty associated with constructing the technology;
ii. Expected operational reliability of the technologies;

iii. Need to coordinate/obtain necessary approvals and permits from other agencies;
iv. Availability of necessary equipment and specialists; and
v. Available capacity, location of needed treatment, storage and disposal services.

(e) Cost.

The types of costs assessed include:
i. Capital, and operation and maintenance costs;
ii. Net present value of capital and operation and maintenance costs; and
iii. Potential future remedial action costs.

K. CORRECTIVE MEASURES IMPLEMENTATION (CMI) PROGRAM PLAN

1. Content and Submittal of CMI Program Plan

Within forty-five (45) calendar days after receipt of the Director's Remedy Selection, the Permittee shall submit a Class 1 Permit Modification request, requiring Director's approval and a draft CMI Program Plan. All Corrective Action requirements of 40 CFR § 264.99(h) and 264.100 shall be addressed, not limited to:

(a) CMI Work Plan Description

Details of specific remedies (i.e. remove-and-treat or treat-in-place) to be taken which achieve compliance with the standards, and a description of remedy's technical features that are necessary to achieve the standards, not limited to:

(i) Requirements for quality sampling and analysis; including a plan for CMI groundwater monitoring that demonstrates an effective post-closure compliance or assessment monitoring program;
(ii) Requirements and proposals for public involvement;
(iii) Requirements for removal, decontamination, closure, or post-closure of units, equipment, devices or structures used to implement remedy; and
(iv) Requirements for achieving compliance with concentration limits and levels;

(b) Corrective Measures Design

Details of the remedy's design, but not limited to:

(i) Specific design criteria of remedial system(s);
(ii) Related diagrams; and
(iii) Required permits.

(c) Corrective Measures Construction

Details of the construction of the specific remedies, but not limited to:

(i) Construction and test plans of systems;
(ii) Construction diagrams;
(iii) Additional well installations; and
(iv) Inspections.

(d) Operation and Maintenance Plan

Specific operation and maintenance requirements and details, but not limited to:

(i) Personnel training;
(ii) Start-up procedures;
(iii) Operation and maintenance procedures;
(iv) Applicable drawings and diagrams; and
(v) Waste management practices.

(e) Monitoring

Specific monitoring requirements for the corrective measures system(s), including for monitoring wells, but not limited to:

(i) Sampling plans;
(ii) Data collection and analysis; and
(iii) Schedules, and corrective measure completion criteria.

(f) Standards

Basic standards including, but not limited to:

(i) Hazardous constituents list;
(ii) All concentration levels or limits of hazardous constituents in each medium (i.e. soil, groundwater) that the remedy must achieve to protect human health and environment;
(iii) Compliance points and compliance period;
(iv) Management of hazardous waste.

(g) Schedule

A schedule for initiating and completing all major technical features and milestones of remedy, and required length of Corrective Actions taken, including when CMI groundwater monitoring is initiated in lieu of post-closure groundwater compliance or assessment monitoring;

(h) Reporting

Requirements for submission of semi-annual reports, completion reports, other information, and modifications if above regulations cannot be met.

2. Review and Approval or Disapproval of CMI Program Plan

The Director shall approve, approve with modifications, or disapprove the draft CMI Plan and will advise the Permittee of its determination in writing.

(a) If the Director disapproves of the CMI Program Plan, the Director shall notify the Permittee in writing of deficiencies in the CMI Program Plan and specify a due date for submittal of a revised CMI Program Plan thirty (30) calendar days after notification.

(b) If the Director approves (or approves with modifications) the CMI Program Plan, the CMI Program Plan will be incorporated into Permit Attachment K. If the Director approves the CMI Program Plan, the Permittee shall, within ninety (90) calendar days of receipt of approval, send the Class 1 Permit Modification notice to all individuals on the facility mailing list maintained by the Director in accordance with R18-8-270.A and 270.I(c)(1)(ix) and (x) [40 CFR § 124.10(c)(1)(ix) and (x)]. The notice shall include a summary of the approved CMI Program Plan and describe the change made to Permit Attachment K. The Director's approval of the CMI Program Plan constitutes approval of the Permit Modification request.

(c) Within forty-five (45) calendar days of receipt of Director's approval, or approval with modifications, of the proposed corrective measure(s), the Permittee shall submit to the Director a final CMI Program Plan consistent with the Director's written notification.

3. Implementation of CMI Program Plan

No later than fifteen (15) calendar days after the Permittee has received written approval from the Director for the CMI Program Plan, the Permittee shall begin to implement the CMI Program Plan according to the schedules and procedures specified in the CMI Program Plan.

L. SITE ASSESSMENT AND REMEDY

Site Assessment and Remedy may be required to assess and possibly remedy sites consisting of suspected historic releases of small area extent and for which no groundwater contamination has occurred or threatens to occur. Site Assessment and Remedy shall consist of a Site Assessment Plan (SP) and, if necessary, a Remedial Plan (RP). At the Director's discretion the Permittee may be required to follow the provisions of the RFI, CMS, and CMI processes (Permit Sections V.H through V.K of this Permit Part) if, during

performance of the SP or RP, extensive contamination is found, or if it is found that groundwater may be affected by the historic release.

1. Site Assessment Plan

Any SP submitted by the Permitted in accordance with V.L shall be submitted as a Class 1 Permit Modification request requiring the Director's approval, see Permit Condition I.C.1(b)) The SP shall contain the following:

(a) A description of the purpose for the SP

(b) A general description of the site including a site diagram or drawing. Identify as applicable:

(i) property boundaries;
(ii) buildings and fences;
(iii) process and maintenance areas;
(iv) active and inactive waste generation, handling treatment, storage, disposal, and spill areas;
(v) water wells, dry wells, sumps, storm sewers, industrial and sanitary sewers, septic tanks, surface waters (including intermittent washes, discharges or irrigation ditches, canals, etc);
(vi) depth to groundwater;
(vii) soil coverings (asphalt, concrete, vegetation, etc);
(viii) topography and drainage patterns

(c) Identity of each waste which has been stored, treated, or disposed at the site, and the identity of each hazardous constituent present in that waste.

(d) The method(s) used to determine sample locations and depths (random, systematic, biased, or combination) and a rationale for the number of samples taken.

(e) A diagram showing the number, type, and location of samples

(f) Detailed sampling procedures describing:

(i) Contents of the field notebook
(ii) Sampling equipment used
(iii) Sample sizes
(iv) Use of any sample compositing
(v) Sample containers, labels, and seals
(vi) Field and trip blanks
(vii) Sample preservatives
(viii) Quality assurance procedures (blind field duplicates, use of a check lab, and chain of custody)
(ix) Sample packaging and shipment

(x) Reserved samples (samples to be taken but not immediately analyzed)
(xi) Backfilling and grouting of sample borings
(xii) Equipment decontamination procedures, including disposal of spent solutions

(g) Analytical parameters and the rationale for choosing such parameters

(h) Provision for expanding the SP if contamination is found to have migrated

(i) Provision for the submittal of a Site Assessment Report within 90 days of performance of the SP, providing the following information:

(i) A summary of results, significant observations, and conclusions.
(ii) A discussion of the sampling followed for each site, including a description of:
a. The sampling procedures used;
b. The equipment used for sampling;
c. The analytical procedures and methods used;
d. The analytical equipment used; and
e. The quality assurance procedures used.

(iii) The procedures used to prevent hazards and protect field personnel;
(iv) The equipment used to prevent hazards and protect field personnel;
(v) Drawings and photographs where appropriate;
(vi) Description of any deviations from the approved SP;
(vii) Data generated from sampling and analysis activities performed pursuant to the plan, including field notes, manifests, bills of lading, LDR forms, laboratory submittal forms, chain-of-custody forms, laboratory reports, and drilling logs.

(j) Provision for the submittal of a RP, if any hazardous constituents are found above the applicable soil remediation standards of Title 18, Chapter 7, Article 2 or if any hazardous constituents may be expected to migrate to groundwater.

(k) Provision for a request of a Finding of No Further Action from the Director, if no hazardous constituents are found above the applicable soil remediation standards of Title 18, Chapter 7, Article 2, or if no hazardous constituents may be expected to migrate to groundwater.

(l) The final approved SP shall be incorporated into Permit Attachment K.

2. Remedial Plan

Any RP submitted by the Permittee in accordance with V.L shall be submitted as a Class 1 Permit Modification request requiring the Director's approval. The RP shall contain the following:

(a) A description of the process to be used in the removal of all hazardous waste, hazardous waste constituents, and/or soils determined to be contaminated with hazardous waste or hazardous waste constituents;

(b) An estimate of the amount of waste or soils to be generated, including a site map indicating the location and vertical and horizontal extent of the area to be remediated;

(c) Identification of the personnel to be used during the remediation, including the name of the project officer who will be responsible for managing the site;

(d) A provision for a site safety plan which will be enforced during the remediation. At a minimum, the site safety plan should specify the precautions to be taken and monitoring to be performed which ensures the safety of the site workers and the surrounding community;

(e) The method(s) used to determine sample locations and depths (random, systematic, biased, or combination) and a rationale for the number of samples taken;

(f) A diagram showing the number, type, and location of samples to be taken;

(g) Detailed sampling procedures describing:

(i) Contents of the field notebook
(ii) Sampling equipment used
(iii) Sample sizes
(iv) Use of any sample compositing
(v) Sample containers, labels, and seals
(vi) Field and trip blanks
(vii) Sample preservatives
(viii) Quality assurance procedures (blind field duplicates, use of a check lab, chain of custody)
(ix) Sample packaging and shipment
(x) Reserved samples (samples to be taken but not immediately analyzed)
(xi) Backfilling and grouting of sample borings
(xii) Equipment decontamination procedures, including disposal of spent solutions;

(h) Analytical parameters and the rationale for choosing such parameters;

(i) The chain of custody procedures to be followed;

(j) If the remediation may be expected to include the storage of hazardous waste or soils contaminated with hazardous constituents on-site, the storage method, location, and expected duration must be detailed. The description must specify the precautions to be taken to protect the facility and surrounding community from exposure to the waste or soils contaminated with hazardous constituents;

(k) If the remediation entails excavation, the steps which will be taken to limit access to the excavated area must be described;

(l) If the remediation entails the use of imported back-fill, provisions for documenting that the back-fill is clean;

(m) The decontamination procedures and disposal techniques to be employed for all decontaminated solutions and personal protective equipment;

(n) The disposal method and identification of the disposal site(s) of all hazardous wastes and contaminated soils generated during the remediation;

(o) A schedule for performance of the remedy, including provision for prior ADEQ notification (5 days);

(p) Provisions for amendment of the RP should confirmatory sampling indicate the presence of hazardous waste or hazardous waste constituents, are found above the applicable soil remediation standards of Title 18, Chapter 7, Article 2 or if any hazardous constituents may be expected to migrate to groundwater;

(q) Documentation that the site has been "blue staked" prior to remediation;

(r) Provisions for the submission of a Remedial Report within 90 days of completion of the remedy providing:

(i) A summary of results, significant observations, and conclusions.
(ii) A discussion of the sampling followed for each site, including a description of:
   a. the sampling procedures used;
   b. the equipment used for sampling;
   c. the analytical procedures and methods used;
   d. the analytical equipment used;
   e. the quality assurance procedures used;
(iii) The procedures used to prevent hazards and protect field personnel;
(iv) The equipment used to prevent hazards and protect field personnel

(v) Drawings and photographs where appropriate
(vi) Description of any deviations from the approved RP.
(vii) Data generated from the remedy and confirmatory sampling and analysis activities performed pursuant to the RP, including field notes, manifests, bills of lading, LDR forms, laboratory submittal forms, chain-of-custody forms, laboratory reports, and drilling logs;

(s) Provision for a request of a Finding of No Further Action from the Director, if no hazardous constituents remain above the applicable soil remediation standards of Title 18, Chapter 7, Article 2, and if no hazardous constituents may be expected to migrate to groundwater;

(t) The final approved RP shall be incorporated into Permit Attachment K.

3. Notification

Within thirty (30) calendar days of submittal of the RP to the Director, the Permittee shall send a notice of the RP to all persons on the facility mailing list maintained by the Director in accordance with R18-8-270.I (40 CFR § 124.10) and to appropriate units of state and local government. The notice shall briefly describe the RP and provide facility and ADEQ contacts.

M. COMPLIANCE SCHEDULE FOR CORRECTIVE ACTION ACTIVITIES

There is currently no compliance schedule for corrective action activities.

[A.A.C. R18-8-270.A (40 CFR § 270.33)]

N. SOLID WASTE MANAGEMENT UNITS AND AREAS OF CONCERN

A list and description of all SWMUs and AOCs based on the 2024 RFA[1] is provided in Table V-A.

Table V-A List of Solid Waste Management Units and Areas of Concern

SWMU No.	Name	Description (See Exhibit N-2, below for layout of facility)
1	Non-Hazardous Waste Processing Building	Structure 70 feet x 90 feet. Central warehouse for the receipt and export of solid wastes
2	Municipal Waste Dumpster	Roll-off dumpster for the short-term storage of solid wastes
3	10-Day Transfer Area	Area used for parking of solid waste transport vehicles
4	Room 102 Container Storage	Room identified in permit application as a possible future SWMU
5	Room 103 Container Storage	Room identified in permit application as a possible future SWMU
6	Room 105 Container Storage	Room identified in permit application as a possible future SWMU
7	Room 106 Container Storage	Room identified in permit application as a possible future SWMU

SWMU No.	Name	Description (See Exhibit N-2, below for layout of facility)
8	Room 115 Container Storage	Room identified in permit application as a possible future SWMU
9	Room 116 Container Storage	Room identified in permit application as a possible future SWMU
10	Room 120 Container Storage	Room identified in permit application as a possible future SWMU
11	Room 121 Container Storage	Room identified in permit application as a possible future SWMU
12	Room 124 Container Storage	Room identified in permit application as a possible future SWMU
13	Area 122 Waste Processing	Area identified in permit application as a possible future SWMU
14	Area 107 Bulk Loading/Stabilization	Area identified in permit application as a possible future SWMU. Area includes two stabilization tanks
15	Area 123 Waste Processing	Area identified in permit application as a possible future SWMU.
16	Area 125	Area identified in permit application as a possible future SWMU. Area includes two corrosive liquid storage tanks
17	Area east of Area 125	Area identified in permit application as a possible future SWMU. Area includes a truck unloading and parking area (one truck)
18	Area 126 Exterior Pressurized Gas Storage	Area identified in permit application as a possible future SWMU.
19	Area 127 Exterior Canopy Area	Area includes Roll-off Staging Area and two Pump Stations
20	Area South of Room 124	Area includes One Pump Station
21	Area 128 Flammable Storage Area	Area includes eight storage tanks
22	Area north of Area 128	Area includes truck unloading and parking (one truck)
23	Northeast Corner of Facility	Area includes a railcar loading and unloading area (four railcars)
24	West Side of Facility	Area includes a fire sprinkler drainage retention basin
25	Universal Waste Battery Storage	Area for the storage of universal waste batteries

[1] RCRA Facility Assessment Report for Triumvirate Environmental (Arizona) Inc. , ADEQ, February 20, 2024.

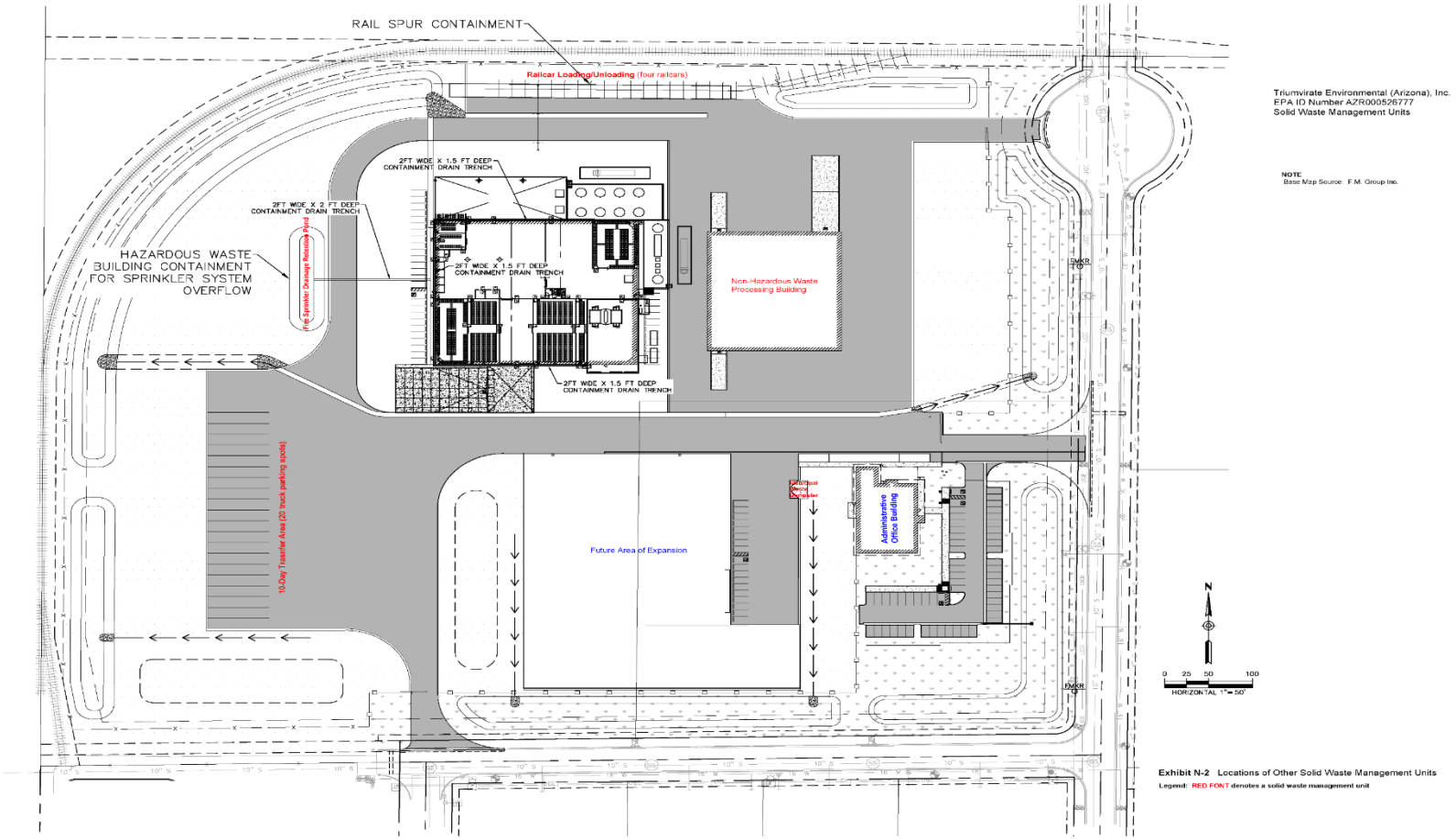

Figure V-1 – Current SWMUs in Red