



HAZARDOUS WASTE FACILITY PERMIT

PERMITTEE: Alabama State Port Authority

ADDRESS: 68 Virginia Street
Mobile, Alabama 36603

PERMIT NUMBER: ALD 058 221 326

UNITS PERMITTED: Post Closure Care – 2 UNITS
Solid Waste Management Unit (SWMU) Corrective Action

ISSUANCE DATE: November 25, 2024
Modification 1 XX XX, 2025

EXPIRATION DATE: November 24, 2034

This Permit is issued pursuant with the Code of Alabama 1975, §§ 22-30-1-et. seq., as amended, and regulations adopted thereunder and the Hazardous Wastes Management and Minimization Act and in accordance with the plans and specifications and applications filed with the Department subject to the conditions appended hereto, all of which are considered a part of this Permit. This Permit shall be subject to all applicable laws of the State of Alabama, rules and regulations and orders of the Department of Environmental Management and shall be effective from the date of issuance.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
HAZARDOUS WASTE PERMIT

| | | | |
|-------------------|-------------------------------------|-------------------------------|------------------------|
| <u>Permittee:</u> | <u>Owner and Operator:</u> | <u>Permit Number:</u> | <u>ALD 058 221 326</u> |
| | <u>Alabama State Port Authority</u> | <u>Identification Number:</u> | <u>ALD 058 221 326</u> |
| | <u>P.O. Box 1588</u> | | |
| | <u>Mobile, Alabama 36633-1588</u> | | |
| | <u>Mobile County</u> | | |

Pursuant to the Alabama Hazardous Wastes Management and Minimization Act (AHWMMA), Code of Alabama 1975, Section 22-30-1, et. seq., as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM or the Department), a permit is issued to Alabama State Port Authority for the facility located in Mobile, Alabama, at latitude N 30° 40' 08" and longitude W 88° 02' 20".

The Permittee must comply with all terms and conditions of this permit, which consists of the conditions set forth herein (including those in any attachments), and the regulations applicable to the Permittee's facility contained in Chapters 335-14-1, 335-14-2, 335-14-5, 335-14-8, and 335-14-9 of the ADEM Administrative Code of Regulations (hereinafter referred to as the "ADEM Admin. Code r."). Applicable regulations are those which are in effect on the date of issuance of this permit.

This permit is based on the assumption that the information submitted in the permit application attached to the Permittee's letter dated April 2, 2024, as modified by subsequent amendments dated August 28, 2024 and September 16, 2024 (hereby incorporated by reference and hereafter referred to as the Application) is accurate and that the facility will be constructed and operated as specified in the Application. Any inaccuracies found in this information could lead to the termination or modification of this permit in accordance with ADEM Admin. Code r. 335-14-8-.04(2), 335-14-8-.04(3), and 335-14-8-.04(4) and could lead to potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information provided in the Application that would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

This permit is effective as of November 25, 2024, and amended on TBD, and shall remain in effect until November 24, 2034 unless revoked and reissued, or terminated under ADEM Admin. Code r. 335-14-8-.04(2) and 335-14-8-.04(4) or continued in accordance with ADEM Admin. Code r. 335-14-8-.05(2).

Alabama Department of Environmental Management

Date Signed

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Documents Incorporated by Reference:

Part A and Part B Permit Application submitted on April 2, 2024, as modified by subsequent amendments dated August 28, 2024 and September 16, 2024.

Corrective Measures Implementation Plan submitted on December 18, 2002, as modified by subsequent amendments dated February 13, 2003, March 4, 2008, April 2011, August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019 and January 16, 2025.

Corrective Measures Implementation Report submitted on July 25, 2005, as modified by subsequent amendments dated June 30, 2011 and October 14, 2014.

Technical Plan Alabama Wood Treating Corporation SWMU 6 West Site Ezra Trice Bypass Rail Tracks Construction Project dated April 14, 2011.

PART I

STANDARD AND GENERAL FACILITY CONDITIONS

I.A. EFFECT OF PERMIT

Issuance of this permit does not 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 action brought under the AHWMMMA, or any other law governing the protection of public health or the environment, for any imminent and substantial endangerment to human health, welfare, or the environment.

I.B. 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.

I.C. DUTIES AND REQUIREMENTS

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 the AHWMMMA, and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application.

2. Duty to Reapply

- a. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit.
- b. The Permittee must apply for a new permit for both post-closure and Solid Waste Management Unit (SWMU) corrective measures at least 180 calendar days before the expiration of this permit. The Permittee must reapply in order to fulfill the 30-year post-closure care period required by ADEM Admin. Code r. 335-14-5-.07(8)(a)1. The Department may shorten or extend the post-closure care period applicable to the hazardous waste facility in accordance with ADEM Admin. Code r. 335-14-5-.07(8)(a)2. and 335-14-8-.03(1)(b).

3. 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.

4. 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.

5. Proper Operation and Maintenance

The Permittee shall, at all times, properly operate and maintain all facilities and systems of treatment, monitoring, 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 (O&M) include effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause as specified in ADEM Admin. Code r. 335-14-8-.04(2), 335-14-8-.04(3), and 335-14-8-.04(4). 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 any permit condition.

7. Property Rights

Issuance of this permit does not convey any property rights of any sort, nor any exclusive privilege.

8. Duty to Provide Information

The Permittee shall furnish to the Department, within a reasonable time as determined by the Department, any relevant information which the Department 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 Department, upon request, copies of records required to be kept by this permit.

9. Inspection and Entry

The Permittee shall allow duly designated officers and employees of the Department 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 the AHWMA, any substances or parameters at any location. The Permittee shall have the opportunity to split samples during sampling.

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 ADEM Admin. Code r. 335-14-2-Appendix I or the methods specified in Table 8C of the permit application. Laboratory methods must be those specified in Test Methods for Evaluating Solid Waste: Physical/Chemical Methods SW-846 (latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Standard Methods for the Examination of Water and Wastewater (latest edition), the methods specified in Table 8C of the permit application, or an alternative method approved by ADEM. [ADEM Admin. Code r. 335-14-8-.03(1)(j)1.]
- b. The Permittee shall maintain at the facility records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, the certification required by ADEM Admin. Code r. 335-14-5-.05(4)(b)9., records of all data used to prepare documents required by this permit, copies of all reports required by this permit, 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 certification, application, sample, measurement, report or record, or until corrective action is completed, whichever date is later. This period may be extended by the Department at any time and is automatically extended during the course of any unresolved enforcement action regarding this facility. [ADEM Admin. Code r. 335-14-5-.05(5)(b) and 335-14-8-.03(1)(j)2.]
- c. The Permittee shall maintain, at the facility, records of all groundwater monitoring wells, piezometers, and associated groundwater surface elevations throughout the post-closure care period. These records shall include the surveyed location, surveyed elevation, surveyed elevation reference point, total depth, screened interval, construction details, well log, and all other pertinent information for each well and piezometer.
- d. Records for monitoring information shall include:
 - i. The date(s), exact place, and times of sampling or measurements;
 - ii. The names of individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;

- iv. The names of individual(s) who performed the analyses;
- v. The analytical techniques or methods used; and,
- vi. The results of such analyses.
- e. The following documents and information shall be maintained throughout the post-closure care period at the Facility.
 - i. Complete copy of this permit and the permit application.
 - ii. Operating record as required by ADEM Admin. Code r. 335-14-5-.05(4) and this permit.
 - iii. Copies of all plans, reports, inspection schedules, inspection logs as required by ADEM Admin. Code Chapter 335-14-5 and this permit.

11. Signatory Requirements

All applications, reports or information required by this permit and submitted to the Department shall be signed and certified in accordance with ADEM Admin. Code r. 335-14-8-.02(2) and 335-14-8-.03(1)(k).

12. Reporting Requirements

a. Planned Changes

The Permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility and any solid waste management units identified under Part IV of this permit.

b. Anticipated Noncompliance

The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity that may result in noncompliance with permit requirements.

c. Transfer of Permits

This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to ADEM Admin. Code r. 335-14-8-.04(1) or 335-14-8-.04(3)(a)1.(vii). Before transferring ownership or operation of the facility during its post-closure period, the Permittee shall notify the new owner or operator, in writing, of the requirements of ADEM Admin. Code Chapters 335-14-5 and 335-14-8 and this permit.

d. Monitoring Reports

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

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 to the Department no later than 14 calendar days following each schedule date.

f. Twenty-Four Hour Reporting

i. The Permittee shall report to the Department any noncompliance with this permit that may endanger human health or the environment. Any such information shall be reported orally within 24 hours from the time the Permittee becomes aware of the circumstances. This report shall include, but is not limited to, the following:

- (I) Information concerning the release of any hazardous waste which may endanger public drinking water supplies; and,
- (II) Information concerning the release or discharge of any hazardous waste, or hazardous waste constituents, or of a fire or explosion at the facility, which could threaten the environment or human health outside the facility.

ii. The description of the occurrence and its cause shall include:

- (I) Name, address, and telephone number of the owner or operator;
- (II) Name, address, telephone number, and EPA Identification 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 accident.

iii. A written submission shall also be provided within 5 calendar days of the time that the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the periods of noncompliance (including exact dates and times); whether the noncompliance has been corrected, and if not, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

g. Other Noncompliance

The Permittee shall report to the Department all instances of noncompliance not otherwise required by Permit Conditions I.C.12.d., I.C.12.e., or I.C.12.f. at the time any other reports required by this permit are submitted. The reports shall contain the information required by Permit Condition I.C.12.f.

h. Other Information

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department any information related to compliance with this permit.

13. Certification of Construction

The Permittee may not commence treatment, storage or disposal of hazardous waste or contaminated media at any new or modified portion of the facility until the Permittee has submitted to the Department, by certified mail or hand-delivery, a letter (together with the certification by the Construction Quality Assurance (CQA) officer required by ADEM Admin. Code r. 335-14-5-.02(10)(d) and any other certifications required by this permit or ADEM Admin. Code Division 335-14) signed by the Permittee and an Alabama-registered professional engineer, stating that the facility has been constructed or modified in compliance with this permit where appropriate; and,

- a. The Department has inspected the modified or newly constructed facility and finds it in compliance with the conditions of this permit; or
- b. The Department has either waived the inspection or has not notified the Permittee, within 15 calendar days of the notification from the Permittee, of its intent to inspect. [ADEM Admin. Code r. 335-14-8-.03(1)(l)(2)(ii)(II).]

14. The Permittee shall assure that all measures necessary to maintain and/or achieve compliance with all applicable requirements of ADEM Admin. Code Division 335-14 are taken during the active life of the facility and throughout the post-closure care period, corrective action period, and the term of this permit.

15. If circumstances beyond the Permittee's control arise to prevent achievement of any deadline set forth by this permit, the Permittee may immediately, upon the occurrence thereof, request an extension by sending a written request to the Department explaining the need for the extension. The Department may, after consideration of the circumstances, grant the extension. Requests for extensions may require a permit modification pursuant to ADEM Admin. Code r. 335-14-8-.04(2) or (3).

I.D. DEFINITIONS

For the purposes of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code Chapters 335-14-1, 335-14-2, 335-14-5, and 335-14-8, unless this permit specifically provides otherwise. Where terms are not defined in the regulations or this permit, a standard

dictionary reference or the generally accepted scientific or industrial meaning of the term shall define the meaning associated with such terms.

"Area of concern" (AOC), for the purposes of this permit, includes any area having a probable release of a hazardous waste or hazardous constituent which is not from a solid waste management unit and is determined by the Department to pose a current or potential threat to human health or the environment. Such areas of concern may require investigations and remedial action as required under Section 3005(c)(3) of the Resource Conservation and Recovery Act and ADEM Admin. Code r. 335-14-8-.03(3)(b)2. to ensure adequate protection of human health and the environment.

"Contamination," for the purposes of this permit, refers to the presence of any hazardous constituent in a concentration that exceeds the naturally occurring concentration of that constituent in the immediate vicinity of the facility (*i.e.*, areas not affected by the facility).

"Corrective action," for the purposes of this permit, is the sum of all corrective measures necessary to protect human health and the environment for all releases of hazardous constituents from any SWMU at the facility, regardless of the time at which waste was placed in the unit, as required by ADEM Admin. Code r. 335-14-5-.06(11) and/or 335-14-5-.06(12). Corrective measures may address releases to air, soils, surface water, or groundwater.

"Corrective measures," for the purposes of this permit, include all individual measures taken and/or necessary to remedy releases and to protect human health and the environment for all releases of hazardous waste or hazardous constituents from any SWMU at the facility, regardless of the time at which waste was placed in the unit, as required under ADEM Admin. Code r. 335-14-5-.06(12). Corrective measures may address releases to air, soils, surface water, or groundwater. The sum of all individual corrective measures is known as corrective action.

"Extent of contamination," for the purposes of this permit, is defined as the horizontal and vertical areas in which the concentrations of hazardous constituents in the environmental media being investigated are above detection limits or background concentrations indicative of the region, whichever is appropriate as determined by the Department.

"Hazardous constituents," for the purposes of this permit, are those substances listed in ADEM Admin. Code r. 335-14-2-Appendix VIII and/or ADEM Admin. Code r. 335-14-5-Appendix IX and include hazardous constituents released from solid waste, hazardous waste, and hazardous waste constituents that are reaction by-products.

"Interim measures," for the purposes of this permit, are actions necessary to minimize or prevent the further migration of contaminants and limit actual or potential human and environmental exposure to contaminants while long term corrective action remedies are evaluated and, if necessary, implemented.

"Land Use Controls," for the purposes of this permit, is as defined by ADEM Admin. Code r. 335-5-1-.03.

"Maximum contaminant limit" (MCL), for the purposes of this permit, refers to a groundwater concentration limit in Table 1 of ADEM Admin. Code r. 335-14-5-.06(5), or which is listed in ADEM Admin. Code Chapter 335-7-2 (Primary Drinking Water Standards) or ADEM Admin. Code Chapter 335-7-3 (Secondary Drinking Water Standards) or analogous Federal safe drinking water regulators (40 CFR 141). In cases where a constituent is listed in multiple sources (ADEM

Admin. Code Division 335-14 and/or ADEM Admin. Code Division 335-7, and /or 40 CFR 141), the most stringent standard shall apply.

“Method detection limit” (MDL), for the purposes of this permit, means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

“Mixed waste,” for the purposes of this permit, means a solid waste that is a mixture of hazardous waste (as defined in ADEM Admin. Code r. 335-14-2-.01(3)) and radioactive waste (as defined in 10 CFR 61.2). The radioactive component of mixed waste is subject to regulation by the Atomic Energy Act (AEA)/Nuclear Regulatory Commission (NRC). The non-radioactive chemically hazardous component of mixed waste is subject to regulation by the AHWMA and ADEM Admin. Code Division 335-14.

“Operating day,” for the purposes of this permit, means any day on which hazardous waste is treated, stored, or disposed of in a unit. For example, each day that a hazardous waste storage unit contains hazardous waste is an operating day; as is each day that a disposal unit contains or receives hazardous waste, or each day that hazardous waste is treated in a treatment unit.

"Release," for the purposes of this permit, includes any spilling, leaking, pouring, emitting, emptying, discharging, injecting, escaping, leaching, pumping, or disposing into the environment of any hazardous waste or hazardous constituent.

"Solid waste management unit" (SWMU), for the purposes of this permit, includes any unit that has been used for the treatment, storage, or disposal of solid waste at any time, irrespective of whether the unit is or ever was intended for the management of solid waste. RCRA-regulated hazardous waste management units are also solid waste management units. SWMUs include areas that have been contaminated by routine and systematic releases of hazardous waste or hazardous constituents, excluding one-time accidental spills that are immediately remediated and cannot be linked to solid waste management activities (*e.g.*, product or process spills).

“Storm event,” for the purposes of this permit, is defined as a 1-year, 24-hour storm event or rainfall that measures 1-inch or greater in 1 hour or less. Rainfall measurements may be taken at the site, or the closest official weather monitoring station may be used.

I.E. EXPIRATION AND CONTINUATION OF PERMIT

This permit and all conditions herein will remain in effect beyond this permit's expiration date if the Permittee has submitted a new application as required by Permit Condition I.C.2. and, through no fault of the Permittee, the Department has not issued a new permit (ADEM Admin. Code r. 335-14-8-.05(1) and 335-14-8-.05(2)).

I.F. WASTE MINIMIZATION

1. Certification Requirements

Pursuant to ADEM Admin. Code r. 335-14-5-.05(4)(b)9., the Permittee must certify, no less often than annually, that:

- a. The Permittee has a program in place to reduce the volume and toxicity of hazardous waste to the degree determined by the Permittee to be economically practicable; and,
- b. The proposed method of treatment, storage or disposal is the most practicable method available to the Permittee and that it minimizes the present and future threat to human health and the environment.

2. Recording Requirements

The Permittee shall maintain copies of this certification in the facility operating record as required by ADEM Admin. Code r. 335-14-5-.05(4).

I.G. COST ESTIMATES

1. The Permittee shall maintain detailed written cost estimates, in current dollars, at the location specified in Permit Condition I.C.10.e. and on file with ADEM in accordance with ADEM Admin. Code r. 335-14-5-.08(3), (5), and (10).
2. All cost estimates must be updated annually as required by ADEM Admin. Code r. 335-14-5-.08(3)(b), 335-14-5-.08(5)(b), and 335-14-5-.08(10)(b).
3. The cost estimate shall be maintained and submitted in the form designated by the Department.
4. The Permittee must update the cost estimate no later than 30 calendar days after the Department has approved a modification to the Closure Plan, Post-Closure Plan, or Corrective Action Plan, or any other plan required or referenced by this permit, if the change in the plan results in an increase in the amount of the cost estimate.

I.H. FINANCIAL ASSURANCE (RESERVED)

I.I. PERMIT MODIFICATIONS

The Permittee shall request a permit modification whenever changes in operating plans or facility design affect any plan (e.g., closure, groundwater monitoring, post-closure, or corrective action) required or referenced by this permit. The Permittee must submit a written request for a permit modification, pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04(2), at least 60 calendar days prior to the proposed change in the facility design or operation.

I.J. REPORTS, NOTIFICATIONS, AND SUBMISSIONS TO THE DEPARTMENT

One hard copy and one electronic copy (an optical character recognition PDF document or text-searchable is preferred) of all reports, notifications, or other submissions that are required by this permit should be sent via certified mail or given to:

Chief, Land Division
Alabama Department of Environmental Management
P.O. Box 301463 (Zip 36130-1463)
1400 Coliseum Boulevard (Zip 36110-2400)
Montgomery, Alabama

PART II

POST-CLOSURE CARE

II.A. POST-CLOSURE CARE PERIOD

The post-closure care period shall extend for a period of thirty (30) years after the date of issuance of this post-closure permit unless shortened or extended pursuant to ADEM Admin. Code r. 335-14-5-.07(8). The post-closure care period shall automatically extend through the end of the compliance period specified in Part III of this permit.

II.B. POST-CLOSURE PROCEDURES AND USE OF PROPERTY

1. Post-Closure Activities

The Permittee shall conduct post-closure care activities, in accordance with Sections 5 and 6 of the permit application and as required by ADEM Admin. Code r. 335-14-5-.07 and 335-14-5-.14(11)(d), for each hazardous waste management unit listed in Table II.1. Post-closure care shall commence upon the effective date of this permit and shall continue throughout the post-closure care period.

2. Security

The Permittee shall comply with the security provisions of ADEM Admin. Code r. 335-14-5-.02(5) and as described in Section 6 of the permit application.

3. Disturbance of Closed Unit(s)

The Permittee shall not allow the disturbance of the integrity of the final cover, liners, any components of the containment system, or the function of the facility's monitoring systems during the post-closure care period for any unit identified in Table II.1.

4. The Permittee shall:

- a. Maintain the integrity and effectiveness of the landfills' final cover, including making repairs to the cap, as necessary, to correct the effects of settling, subsidence, erosion, or other events;
- b. Maintain and monitor the groundwater monitoring system and comply with all other applicable requirements of ADEM Admin. Code r. 335-14-5-.06 and Part III of this permit;
- c. Prevent run-on and run-off from eroding or otherwise damaging the final cover; and,
- d. Protect and maintain surveyed benchmarks used in complying with the surveying and recordkeeping requirements of ADEM Admin. Code r. 335-14-5-.14(10).

II.C. INSPECTIONS

1. The Permittee shall inspect the components, structures, and equipment at the site in accordance with the inspection schedule as described in Section 6 of the permit application, the post-closure care plan as described in Sections 5 and 6 of the permit application, and as required by ADEM Admin. Code r. 335-14-5-.07.
2. Monitoring and Inspection

The Permittee shall inspect the closed hazardous waste management unit(s) listed in Table II.1 at least annually and after storms to detect any evidence of deterioration or improper operation as described in Section 6 of the permit application and as required under ADEM Admin. Code r. 335-14-5-.07 and 335-14-5-.14. The inspections shall specifically include evaluation of the following items:

 - a. Integrity of the final cover (erosion, ponding, subsidence, cracking, *etc.*);
 - b. Run-on and run-off control system;
 - c. Groundwater monitoring wells; and,
 - d. Survey benchmarks.
3. The Permittee shall inspect the solid waste management units at the facility in accordance with Appendix C of the Corrective Measures Implementation (CMI) Work Plan and Condition II.C.2.
4. The Permittee shall conduct site inspections at least semi-annually of all contiguous properties that are owned or operated by Alabama State Port Authority.

TABLE II.1
POST-CLOSURE CARE UNITS

| UNIT NAME* | UNIT DESCRIPTION | CLOSED-IN-PLACE CAPACITY (QUANTITY) | DESCRIPTION OF UNIT** | LOCATION OF UNIT** |
|-------------------|---------------------------|--|------------------------------|---------------------------|
| SWMU 2 | Surface Impoundment | 106 cubic yds. ¹ | Section 2 | Figures 2C |
| SWMU 7 | Overflow Impoundment Area | 106 cubic yds. ¹ | Section 2 | Figures 2C |

1. The Certification of Closure in Appendix C of the permit application indicates that a total of 106 cubic yards (yds) of material that was once in contact with K001 waste was closed in place. This is a total amount for both regulated units and not the individual amounts.

* SWMUs 2 and 7 were closed under a single engineered cap.

** Location in permit application containing description (text) and location (figure) of unit.

PART III

GROUNDWATER MONITORING AND CORRECTIVE ACTION

III.A. REQUIRED PROGRAM(S)

1. Groundwater monitoring shall consist of the General Groundwater Monitoring Program of Permit Condition III.B. and the Compliance Monitoring Program contained in Permit Condition III.D. and the Corrective Action Monitoring Program contained in Permit Condition III.E.
2. The Permittee shall commence groundwater monitoring as required by this permit not later than 120 calendar days after the effective date of this permit.

III.B. GENERAL GROUNDWATER MONITORING PROGRAM

1. Well Location, Installation and Construction

The Permittee shall install and/or maintain a groundwater monitoring system to comply with the requirements of ADEM Admin. Code r. 335-14-5-.06(8), 335-14-5-.06(9), 335-14-5-.06(10), and 335-14-5-.06(11) as applicable and as specified below:

- a. The Permittee shall maintain all groundwater monitoring wells at the facility as identified in Table III.1. of this permit, at the locations specified on Figure 8B of the permit application, and any other groundwater monitoring wells specified by Permit Condition III.B.1.g.
 - i. All groundwater monitoring wells shall be maintained in accordance with the plans and specifications presented in Section 5 of the permit application and/or CMI Plan, and in accordance with ADEM Admin. Code r. 335-14-5-.06.
 - ii. A groundwater monitoring well shall not be removed from any monitoring program specified in this permit without an approved permit modification pursuant to Permit Condition I.I.
 - iii. If a groundwater monitoring well is damaged, the Permittee shall immediately notify the Department in writing, which includes a description of the well repair activities to be conducted. The well repair procedures must be approved by the Department prior to implementation. Within 30 calendar days after the well is repaired, the Permittee shall submit a written notification to the Department that the well repair activities were conducted in accordance with the approved procedures.
 - iv. If a groundwater monitoring well is deleted from the monitoring program(s) required by this permit in accordance with Permit Conditions III.B.1.a.ii. and I.I., it shall be abandoned within 90 calendar days after deletion using procedures to be approved by the Department. Within 30 calendar days after the well is abandoned, the Permittee shall submit a

written notification to the Department that the well abandonment activities were conducted in accordance with the approved procedures.

- b. Groundwater monitoring wells 7-S, 7-IR, 7-D, 8-S, 8-I, 8-D, 8-DK, 9-I, 15-S, 15-I, 15-D, 16-I, 16-D, 31-IR, 31-DR, 32-S, and 32-I shall define the point of compliance for the entire facility.
- c. Monitoring wells 6-S, 6-I, 11-S, 11-I, 12-I, 13-I, 17-D, 18-DR, 21-I, 23-I, 23-D, 25-I, and 26-I shall be maintained as effectiveness wells as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application.
- d. The Permittee shall maintain groundwater monitoring well 19-SR as the background monitoring well(s) for the entire facility as specified in Section 5 of the permit application.
- e. Monitoring wells 9-I, 16-I, 16-D, 31-IR, 31-DR, 32-S, and 32-I shall be maintained and sampled annually as boundary wells for the entire facility as specified in Table III.1 of this permit and as shown on Figure 8B of the application.
- f. Piezometers PZ-1-S, PZ-1-D, PZ-13-D, PZ-16-S, PZ-19-I, and PZ-30-D shall be maintained and water level measurements collected semi-annually to obtain groundwater elevations to be used for the annual determination of groundwater flow rate and direction as required by ADEM Admin. Code r. 335-14-5-.06(8)(f).
- g. The Permittee shall install and maintain additional groundwater monitoring wells as necessary to assess changes in the rate and extent of any plume of contamination or as otherwise deemed necessary to maintain compliance with ADEM Admin. Code r. 335-14-5-.06(6), 335-14-5-.06(8), 335-14-5-.06(9), 335-14-5-.06(10), and 335-14-5-.06(11), as applicable. A plan in the form of a permit modification request specifying the design, location and installation of any additional monitoring wells should be submitted to the Department at least 90 calendar days prior to installation which, at a minimum, shall include:
 - i. Well construction techniques including casing depths and proposed total depth of well(s);
 - ii. Well development method(s);
 - iii. A complete description of well construction materials;
 - iv. A schedule of implementation for construction; and,
 - v. Provisions for determining the lithologic characteristics, hydraulic conductivity, grain size distribution, and porosity for the applicable aquifer unit(s) at the location of the new well(s).

2. General Groundwater Monitoring Requirements

- a. The Permittee shall determine the groundwater surface elevation from all monitoring wells listed in Table III.1. of this permit at least semi-annually and each time a sampling event is conducted. The results of these determinations should be

submitted in accordance with Permit Condition III.B.6. Elevation data should be recorded and reported as mean sea level (MSL) and referenced to an appropriate national geodetic vertical datum (NGVD) benchmark.

- b. The Permittee shall determine the groundwater flow rate and direction in the underlying aquifer(s) at least annually and submit the results in accordance with Permit Condition III.B.6.
- c. The Permittee shall determine background concentrations of hazardous constituents and other chemical parameters required to be monitored by this permit in accordance with Section 5 of the permit application and ADEM Admin. Code r. 335-14-5-.06(8)(g).

3. Groundwater Protection Standard

- a. The groundwater protection standard, as required under ADEM Admin. Code r. 335-14-5-.06(3), shall consist of Table III.3 of this permit which lists the hazardous constituents and their respective concentration limits.
- b. The groundwater protection standard applies to all hazardous waste or hazardous constituent releases as deemed appropriate by the Department to protect human health and the environment.

4. Compliance Period

- a. The compliance period, during which the groundwater protection standard specified in Permit Condition III.B.3. applies, shall begin at the time of the first sampling event of the compliance monitoring program (Permit Condition III.D.), or the corrective action monitoring program (Permit Condition III.E.), whichever is earlier.
- b. The compliance period shall continue (after beginning pursuant to Permit Condition III.B.4.a.) until the groundwater protection standard as defined by Permit Condition III.B.3.a. has not been exceeded for a period of three consecutive years.
- c. If the Permittee is engaged in a corrective action program pursuant to Permit Condition III.E., then the compliance period shall continue as required by ADEM Admin. Code r. 335-14-5-.06(7)(c) until the groundwater protection standard has not been exceeded for a period of three consecutive years after corrective action has been terminated and this permit has been modified, in accordance with Permit Condition III.I., to implement a compliance monitoring program pursuant to Permit Condition III.D. or a detection monitoring program pursuant to Permit Condition III.C., as required by ADEM Admin. Code r. 335-14-5-.06(11)(f).

5. Sampling and Analysis Procedures

The Permittee shall use the following techniques and procedures when obtaining and analyzing samples from the groundwater monitoring wells described in Permit Condition III.B.1. to provide a reliable indication of the quality of the groundwater as required under ADEM Admin. Code r. 335-14-5-.06(8)(d), (e), and (g):

- a. Samples shall be collected, preserved, and shipped (when shipped off-site for analysis) in accordance with the procedures specified in Section 5.9.2 of the permit application.
 - b. Samples shall be analyzed according to the procedures specified in Section 5.9.2 of the permit application, the most recent edition of SW-846 or other appropriate methods approved by the Department. Analytical method detection limits shall be less than or equal to the concentration limits specified in Table III.2 or III.3, unless otherwise approved in writing by the Department.
 - c. Samples shall be tracked and controlled using the chain-of-custody procedures specified in Section 5.9.2 of the permit application.
 - d. Statistical analyses used to evaluate the groundwater monitoring data shall be as described in Section 5.9.3 of the permit application and ADEM Admin. Code r. 335-14-5-.06(8)(h).
 - e. All samples collected in accordance with this permit shall not be filtered prior to analysis.
6. Recordkeeping and Reporting
- a. The Permittee shall keep and maintain all monitoring, testing, and analytical data obtained in accordance with Permit Conditions III.B., III.C., III.D., and III.E. as required by Permit Condition I.C.10.
 - b. The Permittee shall submit to the Department a written report to include all analytical sampling data, established background values, statistical evaluations, groundwater elevations, associated potentiometric maps, and the annual groundwater flow rate and direction determinations. The analytical method and the method detection limit (MDL) for each constituent must be integrated into all reports of analysis. The report shall be submitted within 60 calendar days after the first sampling event and on an annual basis thereafter. Copies of this report shall be kept at the facility in accordance with Permit Conditions I.C.10.c. and I.C.10.e.
 - c. The Permittee shall submit progress reports to the Department describing implementation of groundwater monitoring and/or corrective action activities at the site as required by Part III of this permit on a quarterly basis. The first progress report shall be submitted to the Department within 90 calendar days after the effective date of this permit. The progress reports shall continue until such time as the required monitoring and/or corrective action systems and activities required by this permit are fully constructed and operational. In the event that additional monitoring and/or corrective action requirements are imposed through a permit modification, in accordance with Permit Condition I.I., the quarterly reporting requirement shall resume, commencing upon the effective date of the permit modification and continuing until the required monitoring and/or corrective action systems and activities are again fully constructed and operational.

III.C. DETECTION MONITORING PROGRAM (RESERVED)**III.D. COMPLIANCE MONITORING PROGRAM**

The requirements of this Condition are applicable to the entire facility. Except as specified otherwise in this permit, the Compliance Monitoring Program shall be implemented in accordance with Section 5 of the permit application and ADEM Admin. Code r. 335-14-5-.06(10).

1. Monitoring Requirements

In addition to the general groundwater monitoring requirements specified in Permit Condition III.B.2., the Permittee shall:

- a. Sample all point of compliance wells and background wells and analyze for the constituents listed in Table III.3. of this permit, on an annual basis in accordance with Permit Condition III.B.5. throughout the compliance monitoring period. The annual sampling event is scheduled for the month of June.
- b. Sample and analyze for temperature (degrees F or C), specific conductance (Mhos/cm), and pH (standard units), at all background and point of compliance monitoring well locations each time the well is sampled in accordance with Permit Condition III.B.5. The data obtained should be submitted as raw data in the reports required by Permit Condition III.B.6.
- c. Sample all point of compliance wells and background wells and analyze, in accordance with Permit Condition III.B.5., for the constituents listed in ADEM Admin. Code r. 335-14-5-Appendix IX, as specified by the sampling schedule in Table 9 of the permit application.

2. Reporting and Response Requirements

In addition to the recordkeeping and reporting requirements specified in Permit Condition III.B.6., the Permittee shall perform statistical evaluation of monitoring well analytical data for each monitoring event pursuant to Permit Condition III.B.5. and ADEM Admin. Code r. 335-14-5-.06(10)(d).

- a. If the Permittee determines, pursuant to Permit Conditions III.D.1.c. and III.B.5. and ADEM Admin. Code r. 335-14-5-.06(10)(d) and 335-14-5-.06(10)(g), that any constituent(s) listed in ADEM Admin. Code r. 335-14-5-Appendix IX but not listed in Table III.3 of this permit is detected at any point of compliance or background well, he or she must comply with ADEM Admin. Code r. 335-14-5-.06(10)(g).
- b. If the Permittee determines pursuant to Permit Conditions III.B.5. and III.D.1. and ADEM Admin. Code r. 335-14-5-.06(10)(d) that any concentration limits listed in Table III.3. of this permit exceeded in any monitoring well at the point of compliance, he or she must comply with ADEM Admin. Code r. 335-14-5-.06(10)(h):

III.E. CORRECTIVE ACTION MONITORING PROGRAM

The requirements of this Condition are applicable to the entire facility. Except as specified otherwise in this permit, the Corrective Action Monitoring Program shall be implemented in accordance with Section 6 of the permit application and ADEM Admin. Code r. 335-14-5-.06(11).

1. Monitoring Systems

In addition to the monitoring well systems identified in Permit Conditions III.B.1.b., III.B.1.c., III.B.1.d., III.B.1.e., and III.B.1.f., the Permittee shall maintain wells 4-D, 4-DK, 17-S, 18-IR, 20-I, 21-S, RW-1, RW-3, RW-4, RW-5, RW-6, RW-7, and RW-8 as recovery wells as specified in Table III.1. of this permit and as shown on Figure 8B of the permit application.

2. Corrective Action Program

- a. The Permittee shall conduct a Corrective Action Program, as described in Section 6 of the permit application, to remove or treat in place all hazardous constituents that exceed their respective groundwater protection standards as described in Table III.3. of this permit at the point of compliance, between the point of compliance and the down-gradient facility property boundary, and beyond the facility boundary in accordance with ADEM Admin. Code r. 335-14-5-.06(11)(e)2.
- b. Pursuant to ADEM Admin. Code r. 335-14-5-.06(11)(c) and 335-14-5-.06(11)(e)3., the Permittee shall continue to implement the corrective action program as described in Section 6 of the permit application.
- c. The Permittee shall handle or treat groundwater in accordance with Section 6 of the permit application.

3. Monitoring Requirements

In addition to the general groundwater monitoring requirements specified in Permit Condition III.B.2., the Permittee shall:

- a. Conduct groundwater monitoring as required by Permit Condition III.D.
- b. Monitor effectiveness wells for the presence of dense non-aqueous phase liquid (DNAPL) on a semi-annual basis. Each effectiveness well will be sampled and analyzed as required by Permit Conditions III.D.1.a. and III.D.1.b. following the removal of DNAPL free product. See Section 6 and Table 9 of the permit application regarding DNAPL analysis for selected effectiveness wells.
- c. Recovery wells shall be operated and maintained in accordance with Appendix C of the Corrective Measures Implementation Plan (CMIP).
- d. When evaluating the monitoring results to determine the effectiveness of the corrective measures, in accordance with Permit Condition III.E.4., the Permittee shall:

- i. Determine if the corrective action system effectively addresses the entire plume of contamination;
- ii. Determine if the concentration of the hazardous constituents is decreasing (pH increasing or decreasing toward neutrality, as applicable) in the effectiveness wells specified in Permit Condition III.A.1.;
- iii. Determine if hazardous waste or hazardous constituents are being released into the environment; and,
- iv. Determine if hazardous constituents have been detected in the boundary wells specified in Permit Condition III.A.1.

4. Reporting and Response Requirements

In addition to the recordkeeping and reporting requirements specified in Permit Condition III.B.6.:

- a. The Permittee shall report the effectiveness of the corrective action program annually, as required under ADEM Admin. Code r. 335-14-5-.06(11)(g). These reports shall be submitted to the Department within 60 calendar days of each annual anniversary of this permit after corrective action is initiated and continue until corrective action is completed. The Permittee must provide data from groundwater monitoring along with an analysis of that data and any conclusions regarding the effectiveness of the program in accordance with Permit Condition III.E.3.d. If the analysis of the data warrants any change to the corrective action program, the Permittee must include these revisions in the annual report, which will be followed-up within 90 calendar days with an application for permit modification in accordance with Permit Condition I.I.
- b. If corrective action is terminated under Permit Condition III.B.4.c., the Permittee must sample all background, point of compliance, effectiveness and boundary sampling locations for the compounds listed in ADEM Admin. Code r. 335-14-5-Appendix IX. Based upon the sampling results, the Permittee may petition the Department, in accordance with Permit Condition I.I., for a permit modification to implement either a detection monitoring program or a compliance monitoring program.

TABLE III.1
MONITORING WELL DESIGNATIONS

| WELL NUMBER | WELL TYPE* | WELL LATITUDE | WELL LONGITUDE | UNIT(S) MONITORED | WELL DEPTH (ft) | MONITORED ZONE |
|------------------------|-----------------------|--------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|
| 4-D | REC | 30°40'02.67"N | 88°02'26.57"W | SWMUs 2, 4, 5, 6, 7 & 8 | 103.3 | Deep |
| 4-DK | REC | 30°40'02.67"N | 88°02'26.38"W | SWMUs 2, 4, 5, 6, 7 & 8 | 100.0 | Deep |
| 6-S | EFF | 30°40'05.10"N | 88°02'21.18"W | SWMUs 2, 4, 5, 6, 7 & 8 | 19.5 | Upper |
| 6-I | EFF | 30°40'05.07"N | 88°02'21.13"W | SWMUs 2, 4, 5, 6, 7 & 8 | 62.5 | Intermediate |
| 7-S | POC | 30°40'08.79"N | 88°02'08.80"W | SWMUs 2, 4, 5, 6, 7 & 8 | 15.0 | Upper |
| 7-IR | POC | 30°40'08.8"N | 88°02'08.94"W | SWMUs 2, 4, 5, 6, 7 & 8 | 62.0 | Intermediate |
| 7-D | POC | 30°40'08.78N | 88°02'08.64"W | SWMUs 2, 4, 5, 6, 7 & 8 | 96.1 | Deep |
| 8-S | POC | 30°40'00.24"N | 88°02'12.15"W | SWMUs 2, 4, 5, 6, 7 & 8 | 15.5 | Upper |
| 8-I | POC | 30°40'00.24"N | 88°02'12.22"W | SWMUs 2, 4, 5, 6, 7 & 8 | 70 | Intermediate |
| 8-D | POC | 30°40'00.21"N | 88°02'12.06"W | SWMUs 2, 4, 5, 6, 7 & 8 | 96 | Deep |
| 8-DK | POC | 30°40'00.11"N | 88°02'12.19"W | SWMUs 2, 4, 5, 6, 7 & 8 | 128 | Deep |
| 9-I | BDY/P OC | 30°39'56.44"N | 88°02'15.88"W | SWMUs 2, 4, 5, 6, 7 & 8 | 62.5 | Intermediate |
| 11-S | EFF | 30°40'09.96"N | 88°02'21.14"W | SWMUs 2, 4, 5, 6, 7 & 8 | 15.5 | Upper |
| 11-I | EFF | 30°40'09.96"N | 88°02'21.05"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.0 | Intermediate |

TABLE III.1
(cont.)

| WELL NUMBER | WELL TYPE* | WELL LATITUDE | WELL LONGITUDE | UNIT(S) MONITORED | WELL DEPTH (ft) | MONITORED ZONE |
|------------------------|-----------------------|--------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|
| 12-I | EFF | 30°40'09.19"N | 88°02'13.64"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.0 | Intermediate |
| 13-I | EFF | 30°40'07.4"N | 88°02'16.20"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.0 | Intermediate |
| 15-S | POC | 30°40'04.42"N | 88°02'10.16"W | SWMUs 2, 4, 5, 6, 7 & 8 | 15.0 | Upper |
| 15-I | POC | 30°40'04.38"N | 88°02'10.16"W | SWMUs 2, 4, 5, 6, 7 & 8 | 48.5 | Intermediate |
| 15-D | POC | 30°40'04.49"N | 88°02'10.15"W | SWMUs 2, 4, 5, 6, 7 & 8 | 91.0 | Deep |
| 16-I | BDY/ POC | 30°39'54.82"N | 88°02'23.45"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.0 | Intermediate |
| 16-D | BDY/ POC | 30°39'54.81"N | 88°02'23.45"W | SWMUs 2, 4, 5, 6, 7 & 8 | 106.0 | Deep |
| 17-S | REC | 30°40'01.83"N | 88°02'31.86"W | SWMUs 2, 4, 5, 6, 7 & 8 | 15.0 | Upper |
| 17-D | EFF | 30°40'01.77"N | 88°02'31.85"W | SWMUs 2, 4, 5, 6, 7 & 8 | 106.0 | Deep |
| 18-IR | REC | 30°40'03.74"N | 88°02'32.36"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.0 | Intermediate |
| 18-DR | EFF | 30°40'03.84"N | 88°02'32.39"W | SWMUs 2, 4, 5, 6, 7 & 8 | 105.0 | Deep |
| 19-SR | BKG | 30°40'08.43"N | 88°02'33.98"W | SWMUs 2, 4, 5, 6, 7 & 8 | 20.0 | Upper |
| 20-I | REC | 30°40'05.67"N | 88°02'31.38"W | SWMUs 2, 4, 5, 6, 7 & 8 | 53.0 | Intermediate |
| 21-S | REC | 30°40'01.54"N | 88°02'34.35"W | SWMUs 2, 4, 5, 6, 7 & 8 | 22.6 | Upper |

TABLE III.1
(cont.)

| WELL NUMBER | WELL TYPE* | WELL LATITUDE | WELL LONGITUDE | UNIT(S) MONITORED | WELL DEPTH (ft) | MONITORED ZONE |
|------------------------|-----------------------|--------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|
| 21-I | EFF | 30°40'01.49"N | 88°02'34.27"W | SWMUs 2, 4, 5, 6, 7 & 8 | 50.5 | Intermediate |
| 23-I | EFF | 30°40'02.72"N | 88°02'21.39"W | SWMUs 2, 4, 5, 6, 7 & 8 | 48.5 | Intermediate |
| 23-D | EFF | 30°40'02.65"N | 88°02'21.44"W | SWMUs 2, 4, 5, 6, 7 & 8 | 101.0 | Deep |
| 25-I | EFF | 30°40'06.4"N | 88°02'13.05"W | SWMUs 2, 4, 5, 6, 7 & 8 | 53.0 | Intermediate |
| 26-I | EFF | 30°40'08.18"N | 88°02'10.33"W | SWMUs 2, 4, 5, 6, 7 & 8 | 53.0 | Intermediate |
| 31-IR | BDY/ POC | 30°39'58.08"N | 88°02'35.88"W | SWMUs 2, 4, 5, 6, 7 & 8 | 53.6 | Intermediate |
| 31-DR | BDY/ POC | 30°39'58.07"N | 88°02'35.92"W | SWMUs 2, 4, 5, 6, 7 & 8 | 108.7 | Deep |
| 32-S | BDY/ POC | 30°39'55.07"N | 88°02'27.32"W | SWMUs 2, 4, 5, 6, 7 & 8 | 20.0 | Upper |
| 32-I | BDY/ POC | 30°39'55.12"N | 88°02'27.4"W | SWMUs 2, 4, 5, 6, 7 & 8 | 48.0 | Intermediate |
| RW-1 | REC | 30°40'01.44"N | 88°02'34.45"W | SWMUs 2, 4, 5, 6, 7 & 8 | 20.0 | Upper |
| RW-3 | REC | 30°40'09.51"N | 88°02'17.67"W | SWMUs 2, 4, 5, 6, 7 & 8 | 101.0 | Deep |
| RW-4 | REC | 30°40'09.48"N | 88°02'17.07"W | SWMUs 2, 4, 5, 6, 7 & 8 | 102.5 | Deep |
| RW-5 | REC | 30°40'08.39"N | 88°02'17.72"W | SWMUs 2, 4, 5, 6, 7 & 8 | 99.5 | Deep |
| RW-6 | REC | 30°40'09.08"N | 88°02'16.22"W | SWMUs 2, 4, 5, 6, 7 & 8 | 90.5 | Deep |

TABLE III.1
(cont.)

| WELL NUMBER | WELL TYPE* | WELL LATITUDE | WELL LONGITUDE | UNIT(S) MONITORED | WELL DEPTH (ft) | MONITORED ZONE |
|------------------------|-----------------------|--------------------------|---------------------------|------------------------------|--------------------------------|---------------------------|
| RW-7 | REC | 30°40'08.82"N | 88°02'16.88"W | SWMUs 2, 4, 5, 6, 7 & 8 | 94.6 | Deep |
| RW-8 | REC | 30°40'08.22"N | 88°02'16.56"W | SWMUs 2, 4, 5, 6, 7 & 8 | 91.6 | Deep |
| PZ-1-S | PGM | 30°40'12.54"N | 88°02'34.61"W | SWMUs 2, 4, 5, 6, 7 & 8 | 17.0 | Upper |
| PZ-1-D | PGM | 30°40'12.57"N | 88°02'34.56"W | SWMUs 2, 4, 5, 6, 7 & 8 | 98.0 | Deep |
| PZ-13-D | PGM | 30°40'12.81"N | 88°02'16.64"W | SWMUs 2, 4, 5, 6, 7 & 8 | 81.0 | Deep |
| PZ-16-S | PGM | 30°39'55.53"N | 88°02'18.47"W | SWMUs 2, 4, 5, 6, 7 & 8 | 6.9 | Upper |
| PZ-19-I | PGM | 30°40'08.37"N | 88°02'34.27"W | SWMUs 2, 4, 5, 6, 7 & 8 | 35.1 | Intermediate |
| PZ-30-D | PGM | 30°40'00.83"N | 88°02'35.65"W | SWMUs 2, 4, 5, 6, 7 & 8 | 82.7 | Deep |

* Well Type:

POC - Point of Compliance Wells

EFF - Effectiveness Monitoring Wells

PGM - Piezometers and/or General Monitoring Wells

BKG - Background Wells

BDY - Boundary Monitoring Wells

REC - Recovery Well

Notes:

(ft)-feet

S-Shallow groundwater monitoring well

I-Intermediate groundwater monitoring well

D-Deep groundwater monitoring well

R-Replacement groundwater monitoring well

TABLE III.2
GROUNDWATER QUALITY MONITORING CONSTITUENTS¹

| HAZARDOUS CONSTITUENT¹ | UNIT² |
|---|-------------------------|
| Acenaphthene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Acenaphthylene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Aldrin | SWMUs 2, 4, 5, 6, 7 & 8 |
| Anthracene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Arsenic | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzo(a)anthracene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzo(a)pyrene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzo(b)fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzo(g,h,i)perylene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Benzo(k)fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Bis(2-ethylhexyl)phthalate | SWMUs 2, 4, 5, 6, 7 & 8 |
| Chrysene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Cobalt | SWMUs 2, 4, 5, 6, 7 & 8 |
| Copper | SWMUs 2, 4, 5, 6, 7 & 8 |
| Dibenzofuran | SWMUs 2, 4, 5, 6, 7 & 8 |
| 1,1-Dichloroethane | SWMUs 2, 4, 5, 6, 7 & 8 |
| 2,4-Dimethylphenol | SWMUs 2, 4, 5, 6, 7 & 8 |
| Di-n-octyl phthalate | SWMUs 2, 4, 5, 6, 7 & 8 |
| 1,4-Dioxane | SWMUs 2, 4, 5, 6, 7 & 8 |
| Fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Fluorene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Hexachloroethane | SWMUs 2, 4, 5, 6, 7 & 8 |
| Indeno(1,2,3-cd)pyrene | SWMUs 2, 4, 5, 6, 7 & 8 |
| 2-Methylaniline hydrochloride(o-toludine) | SWMUs 2, 4, 5, 6, 7 & 8 |
| 1-Methylnaphthalene | SWMUs 2, 4, 5, 6, 7 & 8 |
| 2-Methylnaphthalene | SWMUs 2, 4, 5, 6, 7 & 8 |
| 4-Methylphenol (p-cresol) | SWMUs 2, 4, 5, 6, 7 & 8 |

TABLE III.2
(cont.)

| HAZARDOUS CONSTITUENT | UNIT² |
|------------------------------|-------------------------|
| Naphthalene | SWMUs 2, 4, 5, 6, 7 & 8 |
| 1-Naphthylamine | SWMUs 2, 4, 5, 6, 7 & 8 |
| 2-Naphthylamine | SWMUs 2, 4, 5, 6, 7 & 8 |
| N-Nitrosodiphenylamine | SWMUs 2, 4, 5, 6, 7 & 8 |
| Pentachlorophenol | SWMUs 2, 4, 5, 6, 7 & 8 |
| Phenanthrene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Phenol | SWMUs 2, 4, 5, 6, 7 & 8 |
| Phenolics, total | SWMUs 2, 4, 5, 6, 7 & 8 |
| Pyrene | SWMUs 2, 4, 5, 6, 7 & 8 |
| Vanadium | SWMUs 2, 4, 5, 6, 7 & 8 |
| Vinyl Chloride | SWMUs 2, 4, 5, 6, 7 & 8 |
| Xylene, total | SWMUs 2, 4, 5, 6, 7 & 8 |

1. The constituents listed herein are the subset of the Groundwater Protection Standard listed in Table III.3 for which routine monitoring is required.
2. Identifies the unit(s) at which the given constituent must be monitored.

TABLE III.3
GROUNDWATER PROTECTION STANDARD

| HAZARDOUS CONSTITUENT | UNIT* | CONCENTRATION LIMIT (mg/L) AND CONCENTRATION LIMIT SOURCE | |
|----------------------------|-------------------------|---|---|
| | | | |
| Acenaphthene | SWMUs 2, 4, 5, 6, 7 & 8 | 17.9 | d |
| Acenaphthylene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.25 | d |
| Acetone | SWMUs 2, 4, 5, 6, 7 & 8 | 1.8 | a |
| Aldrin | SWMUs 2, 4, 5, 6, 7 & 8 | 0.026 | d |
| Anthracene | SWMUs 2, 4, 5, 6, 7 & 8 | 3.60 | d |
| Antimony | SWMUs 2, 4, 5, 6, 7 & 8 | 0.0060 | a |
| Arsenic | SWMUs 2, 4, 5, 6, 7 & 8 | 0.39 | d |
| Barium | SWMUs 2, 4, 5, 6, 7 & 8 | 2.0 | a |
| Benzo(a)anthracene | SWMUs 2, 4, 5, 6, 7 & 8 | 8.96 | d |
| Benzene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.17 | d |
| Benzo(a)pyrene | SWMUs 2, 4, 5, 6, 7 & 8 | 5.18 | d |
| Benzo(b)fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 | 11.3 | d |
| Benzo(g,h,i)perylene | SWMUs 2, 4, 5, 6, 7 & 8 | 3.11 | d |
| Benzo(k)fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 | 1.4 | d |
| Bis(2-ethylhexyl)phthalate | SWMUs 2, 4, 5, 6, 7 & 8 | 0.29 | d |
| Bromodichloromethane | SWMUs 2, 4, 5, 6, 7 & 8 | 0.08 | a |
| Cadmium | SWMUs 2, 4, 5, 6, 7 & 8 | 0.0050 | a |
| Carbon Disulfide | SWMUs 2, 4, 5, 6, 7 & 8 | 0.081 | a |
| Chlorobenzene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.100 | a |
| Chloroform | SWMUs 2, 4, 5, 6, 7 & 8 | 0.080 | a |
| Chromium | SWMUs 2, 4, 5, 6, 7 & 8 | 0.1 | a |
| Chrysene | SWMUs 2, 4, 5, 6, 7 & 8 | 8.66 | d |
| Cobalt | SWMUs 2, 4, 5, 6, 7 & 8 | 155.5 | d |
| Copper | SWMUs 2, 4, 5, 6, 7 & 8 | 59.6 | d |
| Cyanide | SWMUs 2, 4, 5, 6, 7 & 8 | 0.20 | a |
| Cyclohexane | SWMUs 2, 4, 5, 6, 7 & 8 | 1.3 | a |
| Dibenzofuran | SWMUs 2, 4, 5, 6, 7 & 8 | 11.2 | d |
| 1,1-Dichloroethane | SWMUs 2, 4, 5, 6, 7 & 8 | 25.9 | d |
| 1,1-Dichloroethene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.007 | a |
| 1,2-Dichloroethene (cis) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.07 | a |
| 1,2-Dichloroethene (trans) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.10 | a |
| 1,2-Dichloropropane | SWMUs 2, 4, 5, 6, 7 & 8 | 0.005 | a |
| 2,4-Dimethylphenol | SWMUs 2, 4, 5, 6, 7 & 8 | 13.0 | d |
| Di-n-octyl phthalate | SWMUs 2, 4, 5, 6, 7 & 8 | 1.2 | d |
| 1,4-Dioxane | SWMUs 2, 4, 5, 6, 7 & 8 | 11.6 | d |

TABLE III.3
(cont.)

| HAZARDOUS CONSTITUENT | UNIT* | CONCENTRATION LIMIT (mg/L) AND CONCENTRATION LIMIT SOURCE** | |
|---|-------------------------|---|---|
| Ethylbenzene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.7 | a |
| Fluoranthene | SWMUs 2, 4, 5, 6, 7 & 8 | 26.4 | d |
| Fluorene | SWMUs 2, 4, 5, 6, 7 & 8 | 14.4 | d |
| Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-06 | c |
| 1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-06 | c |
| 1,2,3,4,7,8,9-HpCDF | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-06 | c |
| 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 1,2,3,6,7,8-HxCDD | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 1,2,3,7,8,9-HxCDD | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 1,2,3,6,7,8-HxCDF | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 1,2,3,7,8,9-HxCDF | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| 2,3,4,6,7,8-HxCDF | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| Hexachloroethane | SWMUs 2, 4, 5, 6, 7 & 8 | 32.9 | d |
| Indeno(1,2,3-cd)pyrene | SWMUs 2, 4, 5, 6, 7 & 8 | 2.8 | d |
| Isopropylbenzene (Cumene) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.045 | a |
| Lead | SWMUs 2, 4, 5, 6, 7 & 8 | 0.015 | a |
| Mercury | SWMUs 2, 4, 5, 6, 7 & 8 | 0.002 | a |
| 2-Methylaniline hydrochloride (o-toludine) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.29 | d |
| Methylcyclohexane | SWMUs 2, 4, 5, 6, 7 & 8 | 0.02 | a |
| 1-Methylnaphthalene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.78 | d |
| 2-Methylnaphthalene | SWMUs 2, 4, 5, 6, 7 & 8 | 18.2 | d |
| 3-Methylphenol (m-cresol) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.093 | a |
| 4-Methylphenol (p-cresol) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.4 | d |
| Naphthalene | SWMUs 2, 4, 5, 6, 7 & 8 | 41.2 | d |
| 1-Naphthylamine | SWMUs 2, 4, 5, 6, 7 & 8 | 74.9 | d |
| 2-Naphthylamine | SWMUs 2, 4, 5, 6, 7 & 8 | 1161.13 | d |
| Nickel | SWMUs 2, 4, 5, 6, 7 & 8 | 0.039 | a |
| N-Nitrosodiphenylamine | SWMUs 2, 4, 5, 6, 7 & 8 | 4.44 | d |
| 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) | SWMUs 2, 4, 5, 6, 7 & 8 | 1.0E-04 | c |
| 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF) | SWMUs 2, 4, 5, 6, 7 & 8 | 1.0E-04 | c |
| 1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-08 | c |
| 1,2,3,7,8-Pentachlorodibenzofuran (PeCDF) | SWMUs 2, 4, 5, 6, 7 & 8 | 1.0E-06 | c |
| 2,3,4,7,8-PeCDF | SWMUs 2, 4, 5, 6, 7 & 8 | 1.0E-07 | c |
| Pentachlorophenol | SWMUs 2, 4, 5, 6, 7 & 8 | 1.04 | d |
| Phenanthrene | SWMUs 2, 4, 5, 6, 7 & 8 | 29.0 | d |
| Phenol | SWMUs 2, 4, 5, 6, 7 & 8 | 1122.3 | d |

TABLE III.3
(cont.)

| HAZARDOUS CONSTITUENT | UNIT* | CONCENTRATION LIMIT (mg/L) AND CONCENTRATION LIMIT SOURCE** | |
|--|-------------------------|---|---|
| Phenolics, total | SWMUs 2, 4, 5, 6, 7 & 8 | 1122.3 | d |
| n-Propylbenzene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.066 | a |
| Pyrene | SWMUs 2, 4, 5, 6, 7 & 8 | 28.5 | d |
| Selenium | SWMUs 2, 4, 5, 6, 7 & 8 | 0.05 | a |
| Sulfide | SWMUs 2, 4, 5, 6, 7 & 8 | 250 | b |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-08 | c |
| 2,3,7,8-Tetrachlorodibenzofuran(TCDF) | SWMUs 2, 4, 5, 6, 7 & 8 | 3.0E-07 | c |
| Thallium | SWMUs 2, 4, 5, 6, 7 & 8 | 0.002 | a |
| Tin | SWMUs 2, 4, 5, 6, 7 & 8 | 1.2 | a |
| Toluene | SWMUs 2, 4, 5, 6, 7 & 8 | 1.00 | a |
| 2,4,5-TP (Silvex) | SWMUs 2, 4, 5, 6, 7 & 8 | 0.05 | a |
| Trichloroethylene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.005 | a |
| 1,2,3-Trimethylbenzene | SWMUs 2, 4, 5, 6, 7 & 8 | 0.0055 | a |
| Vanadium | SWMUs 2, 4, 5, 6, 7 & 8 | 596 | d |
| Vinyl Chloride | SWMUs 2, 4, 5, 6, 7 & 8 | 60.6 | d |
| Xylenes, total | SWMUs 2, 4, 5, 6, 7 & 8 | 0.26 | d |
| Zinc | SWMUs 2, 4, 5, 6, 7 & 8 | 0.6 | a |

* Identifies the unit(s) at which the given constituent must be monitored.

** Notes

(a)-RSL or MCL per EPA Regional Screening Levels

(b)-The groundwater protection standard for sulfide is represented by the secondary drinking water standard for sulfate.

(c)-There is no established RSL. Groundwater protection standards were calculated using 2,3,7,8-TCDD RSL and EPA recommended toxicity equivalency factors (TEF) for each compound.

(d)-Alternated Concentration Limit (ACL) developed in the Permit Application (2024)

PART IV

SOLID WASTE MANAGEMENT UNIT IDENTIFICATION AND EVALUATION

IV.A. APPLICABILITY

The Conditions of this Part apply to:

1. The solid waste management units (SWMUs) and areas of concern (AOCs) identified in Table IV.1, which require investigation and/or remediation;
2. The SWMUs identified in Table IV.2, which require no further action under this permit at this time;
3. Any additional SWMUs or AOCs discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means; and,
4. Contamination 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 Department that, despite the Permittee's best efforts, as determined by the Department, 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 such off-site corrective action will be required.

IV.B. NOTIFICATION AND ASSESSMENT REQUIREMENTS FOR NEWLY IDENTIFIED SWMUs AND AOCs

1. The Permittee shall notify the Department in writing, within 15 calendar days of discovery, of any additional AOC(s) as described under Permit Condition IV.A.3. The notification shall include, at a minimum, the location of the AOC(s) and all available information pertaining to the nature of the release (*e.g.*, media affected, hazardous constituents released, magnitude of release, *etc.*). If the Department determines that further investigation of an AOC is required, the permit will be modified in accordance with ADEM Admin. Code r. 335-14-8-.04(2).
2. The Permittee shall notify the Department in writing, within 15 calendar days of discovery, of any additional SWMUs as described under Permit Condition IV.A.3.
3. The Permittee shall prepare and submit to the Department, within 90 calendar days of notification, a SWMU Assessment Report (SAR) for each SWMU identified under Permit Condition IV.B.2. At a minimum, the SAR shall provide the following information:
 - a. Location of unit(s) on a topographic map of appropriate scale such as required under ADEM Admin. Code r. 335-14-8-.02(5)(b)19.

- b. Designation of type and function of unit(s).
 - c. General dimensions, capacities and structural description of unit(s) (supply any available plans/drawings).
 - d. Dates that the unit(s) was operated.
 - e. Specification of all wastes that have been managed at/in the unit(s) to the extent available. Include any available data on hazardous constituents in the wastes.
 - f. All available information pertaining to any release of hazardous waste or hazardous constituents from such unit(s) (to include groundwater data, soil analyses, air, and/or surface water data).
4. Based upon the results of the SAR, the Department shall determine the need for further investigations at the SWMUs covered in the SAR. If the Department determines that such investigations are needed, the Permittee shall initiate an investigation as outlined in Permit Condition IV.D.1 immediately upon receiving notification of the Department's determination.

IV.C. NOTIFICATION REQUIREMENTS FOR NEWLY DISCOVERED RELEASES AT PREVIOUSLY IDENTIFIED SWMUs or AOCs

1. The Permittee shall notify the Department in writing of any newly discovered release(s) of hazardous waste or hazardous constituents discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means, within 15 calendar days of discovery. Such newly discovered releases may be from SWMUs or AOCs identified in Permit Condition IV.A.2 or SWMUs or AOCs identified in Permit Condition IV.A.3 for which further investigation was not required.
2. If the Department determines that further investigation of the SWMUs or AOCs is needed, the Permittee shall initiate an investigation as outlined in Permit Condition IV.D. immediately upon receiving notification of the Department's determination.

IV.D. RCRA FACILITY INVESTIGATION (RFI)

1. The Permittee must perform an RFI for any SWMU and AOC identified by the Department in accordance with Permit Conditions IV.A.1, IV.B.4, and IV.C.2.
2. The RFI must completely identify the concentration of hazardous constituents released from each SWMU and AOC and fully delineate the area where such hazardous constituents have come to be located.
3. The RFI must fully characterize the nature and extent of contamination released from each SWMU or AOC under investigation.
4. The RFI must be performed in a manner consistent with the most recent edition of the Alabama Environmental Investigation and Remediation Guidance (AEIRG).

5. Except as provided by Permit Condition IV.D.6., the RFI must be completed within 180 calendar days from the effective date of this permit or, for SWMUs or AOCs identified pursuant to Permit Condition IV.B. and C., within 180 calendar days from the receipt of notification from the Department that an RFI is required. If, prior to the effective date of this permit, the Department has approved a work plan that includes a schedule for completing the RFI, the RFI shall be completed in accordance with the approved schedule.
6. RFI Schedule of Compliance
 - a. For RFIs expected to require greater than 180 calendar days to complete, the Permittee may submit a schedule of compliance subject to Departmental approval and/or modification.
 - b. Submittal of an RFI Schedule of Compliance does not delay or otherwise postpone the Permittee's obligation to initiate the RFI.
 - c. The Schedule of Compliance must include:
 - i. A detailed narrative discussion, which explains why the RFI cannot be completed within 180 days; and,
 - ii. A detailed and chronological listing of milestones with estimated durations that provides sufficient information to track the progress of the investigation.
 - d. The RFI Schedule of Compliance shall be reviewed by the Department in accordance with Permit Condition IV.G.
 - e. The Permittee shall complete the RFI in accordance with the approved RFI Schedule of Compliance.
7. RFI Progress Reports
 - a. For an RFI being conducted in accordance with the approved RFI Schedule of Compliance, the Permittee must submit progress reports on a monthly basis.
 - b. The RFI Progress Reports must include:
 - i. A description of the RFI activities completed during the reporting period;
 - ii. Summaries of any problems or potential problems encountered during the reporting period;
 - iii. Actions taken to rectify problems;
 - iv. Changes in relevant personnel;
 - v. Projected work for the next reporting period;

- vi. Any proposed revisions to the RFI Schedule of Compliance. Modifications of the RFI Schedule of Compliance are subject to approval by the Department; and,
 - vii. A summary of any data collected during the reporting period, including:
 - A. The location of each sampling point identified on a site map;
 - B. The concentration of each hazardous constituent detected at each sampling point; and,
 - C. Submittal of RFI Progress Reports, work plans, or other documents during the RFI does not alter the approved RFI Schedule of Compliance.
8. RFI Reports
- a. The Permittee shall prepare and submit to the Department an RFI Report within 60 calendar days from the completion of investigation activities in accordance with the approved RFI Schedule of Compliance, if applicable.
 - b. The RFI Report must provide a detailed description of all required elements of the investigation as described in the most recent edition of the AEIRG.
 - c. The RFI Report shall be reviewed by the Department in accordance with Permit Condition IV.G.

IV.E. SELECTION OF CORRECTIVE MEASURES AND PERMIT MODIFICATION

- 1. The Permittee shall develop and submit to the Department a Corrective Measures Implementation (CMI) Plan for any areas of the Permittee's site where hazardous constituents have come to be located at concentrations exceeding those appropriate for the protection of human health and the environment. The CMI Plan must include all applicable elements of the proposed remedy pursuant to the most recent edition of the AEIRG.
- 2. The CMI Plan shall be submitted to the Department within 120 calendar days following the Permittee's submittal of the RFI Report indicating that hazardous constituents have come to be located at any area of the Permittee's facility, or beyond the facility, at concentrations exceeding those appropriate for the protection of human health and the environment, or within 120 calendar days following notification from the Department that a CMI Plan is required, whichever occurs earlier.
- 3. The CMI Plan shall be submitted along with a request for permit modification pursuant to ADEM Admin. Code r. 335-14-8-.04(2), and shall include any applicable fees pursuant to ADEM Admin. Code r. 335-1-6. This modification will serve to incorporate the proposed final remedy, including all procedures necessary to implement and monitor the remedy, into this permit.

4. Within 120 calendar days after this Permit has been modified in accordance with Permit Condition IV.E.3., the Permittee shall demonstrate financial assurance for completing the approved remedy.

IV.F. INTERIM MEASURES (IM)

1. IM Work Plan(s)
 - a. Upon notification by the Department, the Permittee shall prepare and submit an Interim Measures (IM) Work Plan for any SWMU or AOC that the Department determines is necessary. IM are necessary in order to minimize or prevent further migration of contaminants and limit human and environmental exposure to contaminants while long-term corrective measures are evaluated and, if necessary, implemented. The IM Work Plan shall be submitted within 30 calendar days of such notification and shall include the elements listed in Permit Condition IV.F.1.b. Such IM may be conducted concurrently with investigations required under the terms of this permit. The Permittee may initiate IM by submitting an IM Work Plan for approval and reporting in accordance with the requirements under Permit Condition IV.F.
 - b. The IM Work Plan shall ensure that the IM are designed to mitigate any current or potential threat(s) to human health or the environment and is consistent with and integrated into any long-term solution at the facility. The IM Work Plan shall include: the IM objectives, procedures for implementation (including any designs, plans, or specifications), and schedules for implementation.
 - c. The IM Work Plan must be approved by the Department, in writing, prior to implementation. The Department shall specify the start date of the IM Work Plan schedule in the letter approving the IM Work Plan.
 - d. The IM Report shall be reviewed by the Department in accordance with Permit Condition IV.G.
2. IM Implementation
 - a. The Permittee shall implement the IM in accordance with the approved IM Work Plan.
 - b. The Permittee shall give notice to the Department as soon as possible of any planned changes, reductions or additions to the IM Work Plan.
 - c. Final approval of corrective action required under ADEM Admin. Code r. 335-14-5-.06(12), which is achieved through IM, shall be in accordance with ADEM Admin. Code r. 335-14-8-.04(2) and Permit Condition IV.E.
3. IM Reports
 - a. If the time required for completion of IM is greater than one year, the Permittee shall provide the Department with Progress Reports at intervals specified in the

approved work plan. The Progress Reports shall, at a minimum, contain the following information:

- i. A description of the portion of the IM completed;
 - ii. Summaries of any deviations from the IM Work Plan during the reporting period;
 - iii. Summaries of any problems or potential problems encountered during the reporting period;
 - iv. Projected work for the next reporting period; and,
 - v. Copies of laboratory or monitoring data.
- b. The Permittee shall prepare and submit the IM Report to the Department within 90 calendar days of completion of IM conducted under Permit Condition IV.F. The IM Report shall, at a minimum, contain the following information:
- i. A description of IM implemented;
 - ii. Summaries of results;
 - iii. Summaries of all problems encountered;
 - iv. Summaries of accomplishments and/or effectiveness of IM; and,
 - v. Copies of all relevant laboratory or monitoring data, *etc.*, in accordance with Permit Condition I.C.10.

IV.G. SUBMITTALS

1. All work plans, reports, schedules, and other documents ("submittals") required by this permit shall be subject to approval by the Department to assure that such submittals and schedules are consistent with the requirements of this Permit and with applicable regulations and guidance. The Permittee shall revise all submittals and schedules as directed by the Department.
2. The Department will review all submittals in accordance with the conditions of this permit. The Department will notify the Permittee in writing of any submittal that is disapproved, and the basis thereof. If the Department disapproves a submittal, the Department shall: (1) notify the Permittee in writing of the submittal's deficiencies and specify a due date for submission of a revised submittal, (2) revise the submittal and notify the Permittee of the revisions, or (3) conditionally approve the submittal and notify the Permittee of the conditions. Permit Condition IV.H. shall apply only to submittals that have been disapproved and revised by the Department, or that have been disapproved by the Department, then revised and resubmitted by the Permittee, and again disapproved by the Department.

3. All submittals shall be submitted within the time frame specified by the Department and in accordance with the approved schedule of compliance. Extensions of the due date for submittals may be granted by the Department based on the Permittee's demonstration that sufficient justification for the extension exists.
4. All submittals required by this permit shall be signed and certified in accordance with ADEM Admin. Code r. 335-14-8-.02(2).
5. Two (2) copies of all submittals shall be provided by the Permittee to the Department in accordance with Permit Condition I.J.

IV.H. DISPUTE RESOLUTION

Notwithstanding any other provision in this permit, in the event the Permittee disagrees, in whole or in part, with the Department's revision of a submittal or disapproval of any revised submittal required by this Part, the following may, at the Permittee's discretion, apply:

1. In the event that the Permittee chooses to invoke the provisions of this section, the Permittee shall notify the Department in writing within 30 calendar days of receipt of the Department's revision of a submittal or disapproval of a revised submittal. Such notice shall set forth:
 - a. The specific matters in dispute;
 - b. The position the Permittee asserts should be adopted as consistent with the requirements of this permit;
 - c. The basis for the Permittee's position; and,
 - d. Any matters considered necessary for the Department's determination.
2. The Department and the Permittee shall have an additional 30 calendar days from the Department's receipt of the notification provided for in Permit Condition IV.H.1. to meet or confer to resolve any disagreement.
3. In the event agreement is reached, the Permittee shall submit and implement the revised submittal in accordance with and within the time frame specified in such agreement.
4. If agreement is not reached within the 30-day period, the Department will notify the Permittee in writing of the decision on the dispute, and the Permittee shall comply with the terms and conditions of the Department's decision in the dispute. For the purposes of this provision in this permit, the responsibility for making this decision shall not be delegated below the Department's Land Division Chief.
5. With the exception of those conditions under dispute, the Permittee shall proceed to take any action required by those portions of the submission and of this permit that the Department determines are not affected by the dispute.

Table IV.1

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring a RCRA Facility Investigation (RFI) and/or remediation:

| SWMU/AOC NUMBER | DESCRIPTION | UNIT COMMENT | POTENTIALLY AFFECTED MEDIA |
|----------------------------|---------------------------------------|---|---|
| SWMU 11 | Drum Yard-Redline | RFI required for delineation of site media. | Soil and Groundwater |
| AOC 11 | Former Armstrong World Industries LLC | RFI required for delineation of site media. | Soil and Groundwater |
| AOC 12 | Former Mobile River Terminal | RFI required for delineation of site media. | Soil and Groundwater |

Table IV.2

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring no further action at this time:

| SWMU/AOC NUMBER | DESCRIPTION | UNIT COMMENT | POTENTIALLY AFFECTED MEDIA |
|------------------------|--|---|-----------------------------------|
| AOC-1 | Mobile Drum Storage | USEPA Region IV determined NFA, 1988 RFA | Soils |
| AOC-2 | Abandoned Dumpsters | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils |
| AOC-3 | Abandoned Drum | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils |
| AOC-4 | Abandoned Drums off Marvin Street | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils |
| AOC-5 | Automobile Gas Tanks | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils |
| AOC-6 | Five-Gallon Cans, Capacitors, and Refrigerator | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils & Groundwater |
| SWMU 1 | Wastewater Pre-Treatment Plant | USEPA Region IV determined NFA, 1988 RFA | Soils |
| SWMU 3 | Drum Storage Unit | USEPA Region IV determined NFA, 1988 RFA | Soils |
| SWMU 9 | Abandoned Paint Containers | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils |
| SWMU 10 | Abandoned Drums in Woods | Contiguous Properties CS Report, ADEM determined NFA per letter dated February 27, 2003 | Soils & Groundwater |

Table IV.3

The following Solid Waste Management Unit(s) (SWMU) and/or Area(s) of Concern (AOC) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs regulated by Parts II and III of this permit.

| SWMU/AOC NUMBER | DESCRIPTION | UNIT COMMENT | POTENTIALLY AFFECTED MEDIA |
|----------------------------|---------------------------|---|---|
| SWMU 2 | Surface Impoundment | Closure certification submitted in 1990; closed as a landfill | Soils & Groundwater |
| SWMU 7 | Overflow Impoundment Area | Closure certification submitted in 1990; closed as a landfill | Soils & Groundwater |

* SWMUs 2 and 7 were closed under a single engineered cap.

PART V

CORRECTIVE MEASURES IMPLEMENTATION

V.A. APPLICABILITY

The conditions of this Part apply to SWMUs and AOCs identified in Table V.1.

V.B. GENERAL CONDITIONS

1. The Permittee is required to perform corrective measures for the SWMUs and AOCs identified in Condition V.A. The approved remedy for these defined units, waterway areas, or land parcels, includes any and all actions set forth in this permit and in the approved Interim Measures Plans and Corrective Measures Implementation (CMI) Plans approved by the Department, as noted below:

| Applicable SWMU/AOC | CMS/CMI | Approval Date |
|---------------------|---|------------------|
| SWMUs 4, 5, 6, & 8 | CMI Work Plan, dated December 18, 2002, amended February 13, 2003, April 14, 2011, August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019, and January 16, 2025. | To be determined |
| | Technical Plan Alabama Wood Treating Corporation SWMU 6 West Site Ezra Trice Bypass Rail Tracks Construction Project dated April 14, 2011 | July 12, 2011 |

2. Remedial Cleanup Levels

Upon approval, pursuant to Section 1 of the CMI Plan designating applicable cleanup level(s), the cleanup level(s) for the areas specific to the CMI Plan will be deemed to be a condition of this permit.

3. Groundwater Monitoring and Remediation

Where required pursuant to Conditions V.B.1. and V.C. of this permit, the Permittee shall comply with the general groundwater monitoring requirements of Part III of this permit.

4. Land Use Controls

Where required pursuant to Conditions V.B.1. and V.C. of this permit, the Permittee shall establish appropriate land use controls to achieve protection of human health and the environment. The Permittee shall comply with Conditions V.B.5. and V.B.6. of this permit when implementing corrective measures requiring land use controls. In the event an off-site property owner does not allow an environmental covenant to be imposed, the Permittee shall notify the Department within 14 calendar days of receipt of such written notification of the refusal by the off-site property owner. If the property owner does not provide a written refusal of the request to allow an environmental covenant to be imposed, the Permittee shall notify the Department within 14 days of delivery of the request to the off-site property owner. In such cases, the Department may allow the Permittee to propose an alternate area-specific land use control in accordance with ADEM Admin. Code r. 335-5-1-.02(i), subject to the Department's review and approval.

5. Survey Plat

For corrective measures where residual concentrations of contaminants will remain in-place at levels greater than those appropriate for unrestricted land use, or for corrective measures that rely on land use controls, the Permittee must:

- a. Within 90 calendar days following the effective date of a permit modification addressing remedy selection, submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Department, a survey plat indicating the location and dimensions of the SWMUs, AOCs, and capped or partially remediated areas with respect to permanently surveyed benchmarks, the locations of sampling points, and the concentrations of hazardous constituents detected. This plat must be prepared and certified by a professional land surveyor registered in the State of Alabama. The plat must be filed with the local zoning authority or the authority with jurisdiction over local land use and must contain a note, prominently displayed, which states the Permittee's obligation to limit the property to the specified restricted uses.
- b. Maintain the survey plat as described in Condition V.B.5.a. of this permit and in the CMI Report until the Permittee has demonstrated, to the satisfaction of the Department, that the levels of hazardous constituents in all contaminated media are within limits appropriate for unrestricted land uses.

6. Environmental Covenant

No later than the submission of the survey plat required in Condition V.B.5., the Permittee must:

- a. Record in the probate judge's office of the county in which the property is located or a portion thereof an environmental covenant in accordance with ADEM Admin. Code r. 335-5 that will in perpetuity notify any potential purchaser of the property that:
 - i. The land is contaminated with hazardous constituents in concentrations that exceed unrestricted use standards;
 - ii. The use of the property is restricted by this permit for certain residential, municipal, or industrial purposes and may lead to an increased risk of

exposure to hazardous constituents depending upon the activities initiated at the site. Such activities may yield an increased level of human health risk to the owner;

iii. The potential purchaser or entity that desires to work in the contaminated area should notify the Permittee before mobilizing to the area covered by the land use control.

b. Submit to the Department a certification, signed by the Permittee in accordance with Permit Condition I.C.11., that the environmental covenant specified in this part has been performed. This certification must include a copy of the document in which the notation has been placed.

c. Maintain the environmental covenant described in Permit Condition V.B.6. until the Permittee has demonstrated, to the satisfaction of the Department, that the levels of hazardous constituents in all contaminated media are within limits appropriate for unrestricted land uses.

7. Security

Security measures, where required by Conditions V.B.1. and V.C. of this permit, will be conducted in accordance with ADEM Admin. Code r. 335-14-5-.02(5) and as prescribed in the approved CMI Plan and Technical Plan for the Ezra Bypass Rail Tracks Construction Project.

8. Inspection

Where corrective measures addressed in Conditions V.B.1. include provisions to cap in place or partially remediate properties or land areas, whether owned or not owned by the Permittee, the Permittee shall specify inspection protocols on a scheduled basis to ensure continued integrity of the remedy and to ensure that land use remains appropriately restricted per the environmental covenant established pursuant to Permit Condition V.B.6. Inspection provisions shall be as prescribed in the approved CMI Plan.

V.C. AREA SPECIFIC CONDITIONS

1. Construction Activities in Contaminated Areas

- a. Construction activities, such as excavation, trenching, etc., shall not be conducted in SWMUs and AOCs identified in Tables IV.3 and V.I., except as noted in the CMI Work Plan and as approved by the Department.
- b. Any corrective measures shall be developed and implemented in a manner so as to minimize potential human exposure to contaminated media both during construction and upon completion of construction.
- c. During construction of corrective measures, the Permittee shall prevent erosion and downstream transport of contaminated sediments. Erosion and runoff controls, as well

as preventive measures for sediment disturbing activities, shall be outlined in the approved CMI Work Plans and specifications.

- d. During construction of corrective measures, the Permittee shall prevent the generation of fugitive dust, if applicable, that may yield human exposure due to inhalation of contaminated particulates. Fugitive dust control measures, where warranted, shall be outlined in the approved CMI Work Plans and specifications.
- e. Due to the presence of hazardous constituents at levels that may exceed acceptable risk-based levels for unrestricted residential use, current and future uses of the subject property are restricted to non-residential uses. The Permittee shall comply with the requirements of Condition V.B.4.
- f. Inspection and maintenance activities will be conducted both during and upon completion of remediation in accordance with the CMI Work Plan, as amended and approved.
- g. In addition to the remedies outlined in the CMIP, SWMUs 2, 4, 5, 6 East, 7 and 8 have been covered with roller-compacted concrete. The finished pavement surface resulted in an elevation of approximately 12 to 14 feet NAVD. This paved area is used as a container terminal. Any intrusive activities at or below 12 feet NAVD is prohibited at SWMUs 4, 5, 6 East, and 8. SWMU 6 West has an asphalt cover. Intrusive activities at or below 9 feet NAVD is prohibited at SWMU 6 West.
- h. Any intrusive activities at or below the level of the brass markers located on SWMUs 2 and 7, the regulated units, is prohibited.

V.D. CORRECTIVE MEASURES IMPLEMENTATION (CMI) REPORTS

1. CMI Progress Reports

If the time required to complete implementation of a specific set of corrective measures, as described in the Department-approved CMI Plan, is greater than 180 calendar days, the Permittee shall provide ADEM with progress reports according to the schedule in the ADEM-approved CMI Plan. If no schedule has been approved as part of the associated plan, progress reports shall be submitted at least quarterly. The progress reports shall, at a minimum, contain the following information:

- a. A description of the portion of CMI Plan completed;
- b. Summaries of and deviations from the approved CMI Plan during the reporting period;
- c. Summaries of current and potential problems, including recommended solutions and alternatives as well as corrective actions undertaken;
- d. Any monitoring data (soil, air, dust, water) collected for any reason during the construction period for the purposes of monitoring potential for human and ecological exposure; and,

- e. Projected work for the next period and impacts to the approved schedule.

2. Final CMI Reports

Upon completion of construction of corrective measures systems, implementation of land use controls, interim removal actions, or other short-term activities required by this permit and/or the approved CMI Plan, the Permittee shall submit to the Department a Final CMI Report containing, at a minimum, the following:

- a. A description of activities completed;
- b. For cap and cover remedies, as-built construction drawings presenting the final in-place three-dimensional location of contaminated material. A plan view of the remediated areas shall be presented in addition to a cross section of the in-place capped areas;
- c. Hazardous waste manifests indicating the handling of any excavated material that has been shipped off-site to a Department-approved, certified landfill;
- d. For remedies involving land use controls, a copy of the survey plat and environmental covenant required by Condition V.B. of this permit;
- e. Monitoring data (soil, air, dust, water) collected for any reason during the construction period for the purposes of monitoring potential for human and ecological exposure; and,
- f. Certification, prepared in accordance with ADEM Admin. Code r. 335-14-8-02 (2)(d) by the Permittee and an independent professional engineer registered in the State of Alabama, that the corrective measures implementation phase (*i.e.*, construction) required by this permit is complete and that the approved system and/or facilities are ready for operation in accordance with the intended design (*i.e.*, CMI Plan).

3. Corrective Measures (CM) Effectiveness Reports

- a. For corrective measures that have been fully implemented and where the corrective measures system must operate for a period of time to achieve cleanup goals or levels, the Permittee shall submit CM Effectiveness Reports annually, unless otherwise approved by the Department, beginning 180 calendar days following the Department's approval of the Final CMI Report for the initial Corrective Measures system subject to this permit condition. The overall CM Effectiveness Reports shall include, at a minimum, the following information for each SWMU and/or AOC included in the report:
 - i. A detailed narrative presenting an evaluation of the effectiveness of the selected remedy;
 - ii. Summaries of compliance with and progress toward achieving cleanup goals;

- iii. Any significant revisions, adjustments, or proposed modifications to the selected remedy;
 - iv. Tabulated environmental sampling and monitoring data including, but not limited to, groundwater quality, elevation data, and a graphical representation of all constituents detected during each sampling event from recovery wells, monitoring wells, drinking water wells, and other locations;
 - v. Chain of custody, field reports, and laboratory data sheets to include the date of collection, the date the sample was extracted, and the date of sample analysis for samples collected during the reporting period;
 - vi. Any monitoring data (soil, air, dust, water) collected for any reason during the post-construction period for the purposes of monitoring potential for human and ecological exposure;
 - vii. Isoconcentration maps depicting the distribution of parameters for each sampling event;
 - viii. Time versus concentration plots for each monitoring parameter for each recovery well and a representative number of effectiveness wells;
 - ix. Tabulated volumetric data on groundwater pumped and pumping rates (monthly and cumulative) for each recovery well;
 - x. Records of any groundwater recovery system operation time, including shutdown periods, not including any minor (less than 24 hours) shutdowns for repairs, maintenance, etc.;
 - xi. Potentiometric surface maps;
 - xii. Description of land use during the reporting period at the designated area requiring corrective measures; and,
 - xiii. Findings of the Permittee's investigation into the continued effectiveness of land use controls per Condition V.B.
- b. If, at any time, the Permittee determines that any remedy selection specified in Condition V.B or V.C. of this permit no longer satisfies the applicable requirements of ADEM Admin. Code r. 335-14-5-.06(12) or this permit for releases of hazardous waste or hazardous constituents originating from SWMUs or AOCs, the Permittee must, within 90 calendar days, submit an application for a permit modification, pursuant to Permit Condition I.I, to make any appropriate changes to the CMI Plan.
- c. The application for changes in the CMI Plan, including changes in inspection and monitoring provisions of the CMI Plan, shall be submitted as an application for a permit modification pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04.

4. Final Report of Corrective Measures

Within 90 calendar days following attainment of cleanup levels or goals as outlined in this Permit and the approved CMI Plan, the Permittee shall submit to the Department a Final Report of Corrective Measures (FRCM). The FRCM shall contain a certification by the Permittee and an Alabama-registered independent professional engineer that all remedial measures required by this permit and the approved CMI Plan have been completed. The FRCM shall outline any procedures and schedules for dismantling of corrective measures systems, groundwater monitoring or recovery systems, removal of land use controls, and any other remedial systems or controls required by this permit or the approved CMI Plan.

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Table V.1.

The following Solid Waste Management Unit(s) (SWMUs) and/or Area(s) of Concern (AOCs) numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report. Where discrepancies exist, the permit will take precedence.

List of SWMUs and AOCs requiring Corrective Measures.

| SWMU/AOC Number | SWMU/AOC NAME | UNIT COMMENT | POTENTIALLY AFFECTED MEDIA |
|------------------------|--|---|------------------------------------|
| SWMU 4 | Former Plant Operations and Storage Area | CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003 and amended August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019, and January 16, 2025 | Soils & groundwater |
| SWMU 5 | Wood Product Storage Area | CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003 and amended August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019, and January 16, 2025 | Soils & Groundwater |
| SWMU 6 | Drainage Ditch to Mobile Bay | CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003 and amended August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019 and January 16, 2025 and Technical Plan Ezra Trice Bypass Rail Tracks Construction Project, dated April 2011 | Soils, Groundwater & Surface Water |
| SWMU 8 | Former Creosote Unloading Area | CMI Work Plan, dated December 18, 2002, amended February 13, 2003, as approved August 25, 2003 and amended August 13, 2014, December 18, 2015, March 9, 2018, May 3, 2018, June 8, 2018, June 18, 2018, June 12, 2019, June 26, 2019, and January 16, 2025 | Soils & Groundwater |

PART VI**SUMMARY OF DEADLINES**

The summary information provided herein is intended only as a guide to the requirements of this permit. It is not intended to be all inclusive, nor is it intended to be used as a substitute for the full text of this permit.

| PERMIT CONDITION | ITEM | DUE DATE |
|-----------------------------|--|--|
| I.C.2.b. | Reapply for a renewal | 180 calendar days before the expiration of the current permit. |
| I.C.12. | Give notice to the Department of any planned physical alterations or additions to the permitted facility and any solid waste management units. | As soon as possible. |
| I.C.12. | Report any noncompliance with this permit that may endanger human health or the environment. | Orally within 24 hours from the time the Permittee becomes aware of the circumstances. Written submission shall also be provided within 5 calendar days of the time that the Permittee becomes aware of the circumstances. |
| I.F. | Waste Minimization Certification | Annually |
| I.G. | Update cost estimates | No later than 30 calendar days after the Department has approved a modification to the Closure Plan, Post-Closure Plan, or Corrective Action Plan, or any other plan required or referenced by this permit, if the change in the plan results in an increase in the amount of the cost estimate and annually as required by ADEM Admin. Code r. 335-14-5-.08(3)(b), (5)(b), and (10)(b). |
| I.I. | Submit a written request for a permit modification pursuant to the requirements of ADEM Admin. Code r. 335-14-8-.04(2). | At least 60 calendar days prior to a proposed change in facility design or operation. |
| II.C.2 | Inspect closed unit(s). | At least annually, after storms, and in accordance with the inspection schedule. |
| III.B.1.a.iii. | Notification of damaged groundwater monitoring wells. | Immediately in writing. The well must be repaired within 30 calendar days of damage, and repair report must be submitted within 30 calendar days of repair. |
| III.B.1.g. | Install additional groundwater monitoring wells | As necessary to assess changes in the rate and extent of any plume of contamination, or as otherwise deemed necessary. Note: a permit modification request must be submitted within 90 calendar days prior to installation of additional groundwater monitoring well(s). |

| PERMIT CONDITION | ITEM | DUE DATE |
|------------------|---|---|
| III.B.2.a. | Determine groundwater surface elevation. | At least semi-annually and each time a well is sampled. |
| III.B.2.b. | Determine groundwater flow rate and direction. | At least annually. |
| III.B.6.b. | Submit groundwater monitoring report | Within 60 calendar days of the first sampling event and annually thereafter. |
| III.B.6.c. | Submit progress reports. | Within 90 calendar days after the effective date of this permit and quarterly thereafter. See permit condition for start/stop/resume provisions. |
| III.D.1.a. | Sample all point of compliance wells and background wells and analyze for the constituents listed in Table III.3. of this permit. | At least annually. |
| III.D.1.b. | Sample and analyze for temperature (degrees F or C), specific conductance (Mhos/cm), and pH (standard units), at all background and point of compliance monitoring well locations. | Each time the well is sampled. |
| III.D.1.c. | Sample all point of compliance and background wells and analyze, in accordance with Permit Condition III.B.5., for the constituents listed in ADEM Admin. Code r. 335-14-5-Appendix IX | At the beginning of the compliance period and annually thereafter throughout the compliance period. |
| III.E.2.b. | Implement corrective action plan | No later than 120 calendar days after the effective date of this permit. |
| III.E.4.a. | Submit corrective action effectiveness reports. | Annually within 60 calendar days of each annual anniversary of this permit after corrective action is initiated and until corrective action is completed. |
| IV.B.1. | Notify the Department, in writing, of the discovery of any additional AOCs | Within 15 calendar days of discovery |
| IV.B.2. | Notify the Department, in writing, of the discovery of any additional SWMUs | Within 15 calendar days of discovery |
| IV.B.3. | Submit a SWMU Assessment Report (SAR) for each SWMU identified under IV.B.2. | Within 90 calendar days of notification. |
| IV.C.1. | Notify the Department, in writing, of any newly discovered release(s) of hazardous waste or hazardous constituents from SWMUs or AOCs discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means. | Within 15 calendar days of discovery |

| PERMIT CONDITION | ITEM | DUE DATE |
|------------------|---|--|
| IV.D.7. | Submit RFI Progress Reports. | Monthly beginning in the second month following the initiation of the RFI |
| IV.D.8. | Submit RFI Report | Within 60 calendar days from the completion of investigation activities. |
| IV.E.2. | Submit CMI Plan | Within 120 calendar days following the Permittee's submittal of the RFI Report indicating that hazardous constituents have come to be located at any area of the Permittee's facility, or beyond the facility, at concentrations exceeding those appropriate for the protection of human health and the environment, or within 120 calendar days following notification from the Department that a CMI Plan is required, whichever occurs earlier. |
| IV.F.1. | Submit IM Work Plan | Within 30 calendar days upon notification by the Department. |
| IV.F.3. | Submit IM Report | Within 90 calendar days of completion of IM. |
| V.B.5.a. | Submit to the local zoning authority, or the authority with jurisdiction over local land use, and to the Department, a survey plat indicating the location and dimensions of the SWMUs, AOCs, and capped or partially remediated areas with respect to permanently surveyed benchmarks, the locations of sampling points, and the concentrations of hazardous constituents detected | Within 90 calendar days following the effective date of a permit modification addressing remedy selection. |
| V.B.6.a. | Record environmental covenant | No later than the submission of the survey plat required in Condition V.B.5. |
| V.B.6.b. | Submit to the Department a certification that the environmental covenant has been performed. | No later than the submission of the plat required in Condition V.B.5. |
| V.D.3. | Submit Corrective Measures Effectiveness Reports | Annually beginning 180 calendar days following the Department's approval of the Final CMI Report. The annual CMER and groundwater report will be combined and submitted on or before March 1. |
| V.D.4. | Submit a Final Report of Corrective Measures | Within 90 calendar days following attainment of cleanup levels or goals |