

Post-Closure Care Plan



Petersburg Generating Station
Restricted Waste Landfill Type III
(Permit No. FP 63-02)
Pike County, IN

PREPARED FOR:

AES Indiana

PREPARED BY:

AECOM

1300 E. 9th St. Suite 500

Cleveland, OH 44114

Revision 0

July 31, 2024

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1.0 Introduction

Under 40 C.F.R. § 257.104(d), the owner or operator of a CCR unit must prepare a written post-closure plan that describes the steps necessary to care for, inspect, monitor and maintain the CCR unit during the post-closure time period consistent with recognized and generally accepted good engineering practices. The Post-Closure Plan outlined below is provided to meet this requirement.

1.1 Purpose

The Post-Closure Plan for AES Indiana (AESI) Petersburg Generating Station Restricted Waste Site Type III (Petersburg Landfill) is intended to satisfy requirements set forth by the CCR Rule. In accordance with 40 C.F.R. § 257.104, the landfill will be cared for, inspected, monitored, and maintained during the 30-year post-closure care period. The Post-Closure Plan will include protection measures to preserve the integrity of the final cover, sampling of monitoring wells and reports, inspections, and as-needed repairs of drainage infrastructure, roads, and other landfill features.

1.2 Facility & Site Descriptions

The AESI Petersburg Generating Station is located about four (4) miles north of the City of Petersburg in Pike County, Indiana west of State Road 57. The permitted Solid Waste Boundary of the Petersburg Landfill encompassed a total area of approximately 123.7 acres and was landfill operated under IDEM Permit Number 63-2. The original 80.1-acres of the landfill's Solid Waste Boundary were permitted by the Indiana Department of Environmental Management (IDEM) in 1982, while the remaining 43.6-acres was permitted as an expansion to the landfill in 1996. The Petersburg Landfill is not currently operating, and no waste has been placed in the landfill since 2009. As of 2023, the 43.6-acre landfill expansion had not been constructed and AESI had no plans to operate within either the original footprint or within the proposed expansion area of the facility in the future. As such, AESI submitted to IDEM a minor permit modification request to eliminate the 43.6-acre landfill expansion area and to re-establish the original 80.1-acre permitted landfill footprint. IDEM approved the permit modification request and renewed the landfill permit on April 23, 2024. This Post-Closure Plan is applicable to the currently permitted 80.1-acre landfill footprint.

1.3 Landfill Name

The CCR unit name is AESI Petersburg Generating Station Restricted Waste Site (RWS) Type III.

2.0 Monitoring & Maintenance Activities

In accordance with 40 C.F.R. § 257.104(b), the following post-closure activities will be performed at the Petersburg Landfill:

- (i) Maintaining the integrity and effectiveness of the final cover system, including making repairs to the final cover as necessary to correct the effects of settlement, subsidence, erosion, or other events, and preventing run-on and run-off from erosion or otherwise damaging the final cover system;
- (ii) If the CCR unit is subject to the design criteria under 40 C.F.R. § 257.70, maintaining the integrity and effectiveness of the leachate collection and removal system and operating a leachate collection and removal system in accordance with the requirements of 40 C.F.R. § 257.70; and
- (iii) Maintaining the groundwater monitoring system and monitoring the groundwater in accordance with the requirements of 40 C.F.R. § 257.90 through 40 C.F.R. § 257.98.

Activity	Minimum Frequency per Year
Monitoring Well Sampling	Twice
Final Cover Inspection	Twice
Erosion Control Repairs	As Needed
Drainage Repairs	As Needed
Access Road Repairs	As Needed

Groundwater monitoring will be conducted bi-annually in accordance with 40 C.F.R. § 257.90 through 40 C.F.R. § 257.98. The groundwater monitoring wells and associated equipment will be repaired as needed.

No leachate collection system exists for the Petersburg Landfill; therefore, leachate maintenance activities are not applicable.

3.0 Contact Information For Post-Closure Care

The below information is the contact information available for the post-closure period:

Facility Name: AESI Petersburg Generating Station Restricted Waste Site Type III

Permit No.: FP 63-02

Contact: Mr. Braden Henson, Environmental Leader

Address: AES Indiana
1 Monument Circle
Indianapolis, IN 46204-2901

Telephone: 812.601.7115

E-mail Address: braden.henson@aes.com

4.0 Property Use During Post-Closure Care

The use of Petersburg Landfill closure area during the post-closure care period will be for monitoring and maintenance activities. Access to the landfill during this period will be restricted to key AESI personnel and contractors on an as-needed basis for the completion of inspections, monitoring, and maintenance procedures. Post-Closure activities will not disturb the integrity of the final cover system or the function of the monitoring systems unless necessary to comply with the requirements of 40 C.F.R. § 257.104.

5.0 Completion of Post-Closure Care

No later than 60 days following the completion of the post-closure care period, AESI will prepare a notification verifying that post-closure care has been completed. The notification will include certification by a qualified engineer verifying that post-closure care has been completed in accordance with the post-closure plan and the requirements of 40 C.F.R. § 257.104.

6.0 Amendments to Post-Closure Plan

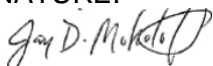
In accordance with 40 C.F.R. § 257.104(d)(3), AESI may amend the Post-Closure Plan at any time. AESI will amend the written closure plan whenever:

- (i) There is a change in the operation of the CCR unit that would substantially affect the written post-closure plan in effect; or
- (ii) After post-closure activities have commenced, unanticipated events necessitate a revision of the written post-closure plan.

7.0 Certification

I, Jay D. Mokotoff, being a registered Professional Engineer, in accordance with the Indiana Professional Engineer's Registration, do hereby certify to the best of my knowledge, information, and belief, that the information contained in this written Post-Closure Plan was developed in general accordance with the requirements of 40 C.F.R. § 257.104(d) and has been prepared in accordance with recognized and generally accepted good engineering practices.

SIGNATURE:



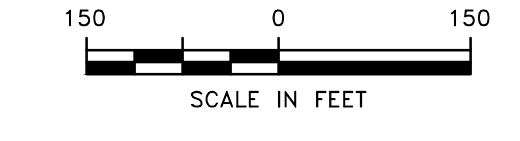
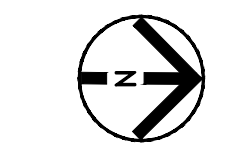
Jay D. Mokotoff, P.E.

DATE:

7/31/2024



DRAWINGS



LEGEND

- LOW** **LOW** LANDFILL WASTE BOUNDARY
- EXISTING DITCH
- LIMITS OF WATER
- 100-YR** **100-YR** 100 YR FLOODPLAIN
- EXISTING OVERHEAD TRANSMISSION LINES
- EXISTING UNDERGROUND ELECTRIC LINES
- W.E.** WATER SURFACE ELEVATION
- RAILROAD
- EXISTING PAVED ROADS
- EXISTING UNPAVED ROADS
- EXISTING TREE OR BUSH LINE
- EXISTING PIPES
- OBSCURED AREA
- GUARDRAIL
- FENCE
- EX. RIPRAP
- WET AREA
- FINAL COVER EXTENTS
- INTERMEDIATE COVER EXTENTS
- BENCHMARK
- STORMWATER STRUCTURE

NOTES:

1. FINAL COVER REFERS TO THE COVER SOILS INSTALLED OVER THE WEST PORTION OF THE LANDFILL TO THE EXTENTS INDICATED. SOILS CONSIST OF LOAM, FINE SANDY LOAM, LOAMY SAND, AND SANDY SOILS. INSTALLED TO A MINIMUM THICKNESS OF 2.5 FEET, AS DOCUMENTED IN THE PARTIAL CLOSURE CERTIFICATION FOR THE PETERSBURG TYPE III LANDFILL, DATED OCTOBER 14, 2015 AND APPROVED BY IDEM ON DECEMBER 23, 2015.
2. INTERMEDIATE COVER REFERS TO THE COVER SOILS INSTALLED OVER THE EAST PORTION OF THE LANDFILL TO THE EXTENTS INDICATED. SOILS CONSIST OF LEAN CLAY, SILTY CLAY, CLAYEY SAND, AND SILT, WITH THICKNESS VARYING FROM 0.5 FEET TO 3.2 FEET. SOIL TYPES AND THICKNESSES WERE INVESTIGATED AS DOCUMENTED WITHIN AECOM'S GEOTECHNICAL DATA REPORT, DATED DECEMBER 8, 2023.



PERMITTEE/OPERATOR

AES INDIANA
PETERSBURG GENERATING STATION
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Petersburg, IN 47567

OWNER

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Indianapolis, IN 46204-2901
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NOT FOR CONSTRUCTION

REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

AECOM PROJECT NO:	60704510
DRAWN BY:	JET
DESIGNED BY:	DMB
CHECKED BY:	BS / JDM
PLOT DATE:	7/16/2024
SCALE:	NOTED
AUTOCAD VER:	2018

PROJECT NUMBER

60704510

SHEET TITLE

SITE VICINITY MAP - AERIAL

SHEET NUMBER

DRAWING 1

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