Stormwater Pollution Prevention Plan

2021 Multi-Sector General Permit

Peabody Ash Monofill
40 Farm Ave
Peabody, MA 01960

Revised September 1, 2021

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Stormwater Plan Executive Summary

Task	Frequency	Responsibility	Deliverable
Quarterly Visual Assessment	Quarterly *Typically performed with Benchmark Monitoring when applicable*	Covanta or 3rd Party Testing Lab	Inspection Form (Form 1)
Routine Visual Inspection	Quarterly *1 Inspection During Discharge Event*	Covanta or 3rd Party Testing Lab	Inspection Form (Form 2)
Weekly Stormwater Inspection	Weekly	Covanta or 3rd Party Testing Lab	Inspection From (Form 3)
Benchmark Monitoring *Total Suspended Solids (TSS)*	Quarterly *TSS Also Included In Indicator monitoring* **Additional Action If Exceedances*	Covanta or 3rd Party Testing Lab	Lab Results CDX and Online Submittal *Within 30 days of receipt*
Indicator Monitoring *Chemical Oxygen Demand (COD)* *TSS* *pH*	Quarterly	Covanta or 3rd Party Testing Lab	Lab Results CDX and Online Submittal *Within 30 days of receipt*
Effluent Limitations Monitoring *Biochemical Oxygen Demand (BOD)* *TSS* *Ammonia* *Alpha Terpineol* *Benzoic Acid* *p-Cresol* *Phenol* *Total Zinc* *pH*	Annually **Additional Action If Exceedances*	Covanta or 3rd Party Testing Lab	Lab Results and Online CDX Submittal *Within 30 days of receipt*
Annual Report	Annually Due January 30th	Covanta & Tighe & Bond	Online CDX Submittal
Annual Training	Annually	Covanta	Sign-In Sheet

2021 MSGP Part 1.3.5

You must post a sign or other notice of your permit coverage at a safe, publicly accessible location in close proximity to your facility. Public signage is not required where other laws or local ordinances prohibit such signage, in which case you must document in your SWPPP a brief explanation for why you cannot post a sign and a reference to the law or ordinance. You must use a font large enough to be readily viewed from a public right-of-way and perform periodic maintenance of the sign to ensure that it remains legible, visible, and factually correct.

SIGNAGE EXAMPLE

Peabody Ash Monofill is permitted for industrial stormwater discharges under the U.S. EPA's Multi-Sector General Permit (MSGP)

NPDES ID Number: MAR053687

Please contact ***508-291-4408*** to obtain additional facility information.

To obtain the Stormwater Pollution Prevention Plan (SWPPP) for this facility or to report observed indicators of stormwater pollution, contact Dave Gray of the EPA at gray.davidj@epa.gov or 617-918-1577

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SECTION 1

Section 1
Facility Description

1.1 Facility Information

To be eligible to discharge under the MSGP, a facility must have a stormwater discharge associated with an industrial activity from the primary industrial activity, or be notified by EPA that it is eligible for coverage under Sector L of the MSGP.

Peabody Monofill Associates (the "Permittee") currently operated the Peabody Ash Monofill Landfill located within Essex County at 40 Farm Avenue in Peabody Massachusetts (the "Facility"). The facility is an ash landfill which corresponds to Sector L: Landfills, Land, Application Sites, and Open Dumps. Specifically, the Permittee is applicable to Subsector L1: All Landfill, Land Application Sites and Open Dumps and Subsector L2: All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill ("MSWLF") Areas Closed in Accordance with 40 CFR 258.60, and is therefore eligible to discharge under the MSGP.

The stormwater from the facility discharges to areas of Isolated Land Subject to Flooding ("ILSF").

1.2 Contact Information and Responsible Parties

Facility Operator(s):

Name: Peabody Monofill Associates
Address: 141 Cranberry Highway
City, State, Zip Code: West Wareham, Massachusetts, 02576
Telephone Number: (508) 291-4408
Email address: SMelloni@covanta.com

Facility Owner(s):

Name: Peabody Monofill Associates
Address: 141 Cranberry Highway
City, State, Zip Code: West Wareham, Massachusetts, 02576
Telephone Number: (508) 291-4408
Email address: SMelloni@covanta.com

SWPPP Contact(s):

SWPPP Contact Name (Primary): Steve Melloni
Telephone number: (508) 291-4408
Email address: SMelloni@covanta.com

1.3 Stormwater Pollution Prevention Team

2021 MSGP Part 6.2.1

The stormwater pollution prevention team is responsible for overseeing development of the facility's SWPPP, any modifications to it, and for implementing and maintaining control measures, taking corrective action and or additional implementation measure (AIM) responses when required. Each member of the stormwater pollution prevention team should have ready access to the 2021 MSGP, the most updated copy of the SWPPP, and other relevant documents that must be kept with the SWPPP.

- Identify the staff members (by name and/or title) that comprise the facility's stormwater pollution prevention team as well as their individual responsibilities.
- EPA recommends, but does not require, the stormwater pollution prevention team include at least one individual from each shift to ensure that there is always a stormwater pollution prevention team member on-site.

Member Name or Title	Member Responsibility
Lab Manager	Team Leader - Coordinate plan development, plan implementation, employee training, best management practices and stormwater sampling gathering for analysis.
Lab Technicians	Team Member - Support plan development, plan implementation. Perform stormwater sampling gathering for analysis and recordkeeping.
Regional Landfill Manager	Team Member - Certifying official, provide any upper management advice or directives.
Site Manager	Team Member - Oversee preventative maintenance procedures, and weekly inspections to ensure that control measures are in place and are in proper working condition.
Landfill Staff	Assist Site Manager with weekly inspections, oversee preventative maintenance, aids inspections, aids spill prevention/response, ensures proper documentation of program compliance, ensures best management practices (BMPs) are followed throughout the facility.
Consultant	Assist in plan development and provide technical advice on plan implementation.

1.4 Site Description

2021 MSGP Part 6.2.2

Provide a description of the nature of the industrial activities conducted at your facility. For the MSGP, industrial activities consist of: manufacturing and processing; material handling activities including storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product; and vehicle and equipment fueling, maintenance and cleaning.

Industrial activities may occur at any of the following areas (list not exhaustive): industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters; sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and final products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater.

EPA recommends that you differentiate activities that occur indoors from those that occur outdoors and could be exposed to stormwater, or under cover but that could be exposed to run-on. Do not overlook processes that are vented and may contribute pollutants to the roof.

The Facility includes four contiguous landfill cells including the currently active Phase 1 and Phase 2 landfill cells, as shown on Figure 4 in Appendix A. The Phase 1 and 2 areas comprise approximately 16 acres and are lined landfill cells that contain residual ash and soils. Phase 3 and Phase 4 are future cells are not currently active. It should be noted that a former metals recovery facility was located in the Phase 4 area. The metals recovery facility ceased operations in 2019 and was decommissioned in 2020.

The operations at the Facility occur outside, however, the landfill is graded to contain runoff that comes in contact with waste materials to within the landfill boundaries. There are some activities conducted and materials stored that have the potential to contribute to stormwater pollution.

There are currently three outfalls and two drainage areas at the Facility, as shown on Figure 4 in Appendix A.

- **Outfall 001:** Stormwater from Outfall #001 discharges via a detention basin into an area of ILSF located to the west of the facility. All site activities are consistent across the site and therefore, all outfalls are substantially identical.
- **Outfall 002**: Stormwater from outfall #002 discharges to an area of ILSF located to the east of the facility. All site activities are consistent across the site and therefore, all outfalls are substantially identical.
- **Outfall 003**: Stormwater from Outfall #003 is located at the northern corner of the Site, and discharges to an excavated depression. There is no drainage outlet from this area, all water detained infiltrates into the excavated depression located to the north of the site. This drainage area is not jurisdictional under the Massachusetts Wetlands Protection Act ("MAWPA") or Peabody Wetlands By-laws, however, the outfall is conservatively listed in this SWPPP. All site activities are consistent across the site and therefore, all outfalls are substantially identical.

Discharge is not commonly observed at Outfall 001 and 003, therefore, visual and analytical samples will be collected from Outfall #002.

1.5 General Location Map

2021 MSGP Part 6.2.2

Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of your facility and all receiving waters for your stormwater discharges.

Please see Appendix A for the general location figures.

1.6 Site Map

2021 MSGP Part 6.2.2

Prepare a site map showing the following information.

- Boundaries of the property and the size of the property in acres;
- Location and extent of significant structures and impervious surfaces;
- Directions of stormwater flow (use arrows), including flows with a significant potential to cause soil erosion;
- Locations of all stormwater control measures;
- Locations of all receiving waters, including wetlands, in the immediate vicinity of your facility, indicating which waterbodies are listed as impaired and which are identified by your state, tribe or EPA as Tier 2, Tier 2.5, or Tier 3 waters;
- Locations of all stormwater conveyances including ditches, pipes, and swales;
- Locations of potential pollutant sources identified under Part 6.2.3;
- Locations where significant spills or leaks identified under Part 6.2.3.3 have occurred;
- Locations of all stormwater monitoring points;
- Locations of stormwater inlets and discharge points, with a unique identification code for each discharge point (e.g., 001, 002), indicating if you are treating one or more discharge points as "substantially identical" under Parts 3.2.4.5, 6.2.5.3, and 4.1.1, and an approximate outline of the areas draining to each discharge point;
- If applicable, MS4s and where your stormwater discharges to them;
- Areas of Endangered Species Act-designated critical habitat for endangered or threatened species, if applicable; and
- Locations of the following activities where such activities are exposed to precipitation:
    - fueling stations;
    - vehicle and equipment maintenance and/or cleaning areas;
    - loading/unloading areas;
    - locations used for the treatment, storage, or disposal of wastes;
    - liquid storage tanks;
    - processing and storage areas;
    - immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
    - transfer areas for substances in bulk;
    - machinery; and
    - locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants.

Please see Appendix A for the site map.

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SECTION 2

Section 2
Potential Pollutant Sources

2.1 Potential Pollutants Associated with Industrial Activity

2021 MSGP Parts 6.2.3.1 and 6.2.3.2

For the industrial activities identified in Section 1.4 above, list the potential pollutants or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, cleaning solvents).

In your list of pollutants associated with your industrial activities, include all significant materials that have been handled, treated, stored, or disposed, and that have been exposed to stormwater in the three years prior to the date you prepare or amend your SWPPP.

Table 2-1

Industrial Activity	Applicable Outfall	Pollutant Source	Potential Pollutant
Cover Material Hauling	#001, #002, and #003	Dust, Spillage of Cover Materials, Erosion	TSS, TDS, turbidity
Placement of Ash and Cover Materials	#001, #002, and #003	Dust, Ash, Cover Materials, Erosion	TSS, TDS, turbidity
Landfill Operations	#001, #002, and #003	Ash, Erosion	TSS, TDS, turbidity
Leachate collection	#001, #002, and #003	Uncontrolled leachate	Iron, TSS, biochemical oxygen demand (BOD), ammonia, alpha terpineol, benzoic acid, p-Cresol, phenol, zinc, pH
Loading/Unloading of Trucks	#001, #002, #003	Dust, Spillage of Residual Ash, Cover Materials, Erosion	TSS, TDS, turbidity

2.2 Spills and Leaks

2021 MSGP Part 6.2.3.3

Include the following in this section:

- **Potential spills and leaks:** A description of where potential spills and leaks could occur at your site that could contribute pollutants to your stormwater discharge and specify the discharge points that would be affected by such spills and leaks.
- **Past spills and leaks:** A description of significant spills and leaks of oil or toxic or hazardous substances that actually occurred at exposed areas, or that drained to a stormwater conveyance in the three years prior to the date you prepare or amend your SWPPP.

Note: Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC §9602.

Potential spills and leaks could occur as shown in the table in Section 2.1 No known spills or leaks of pollutants have occurred at the Facility in the three years prior to the date of the development of this SWPPP.

2.3 Unauthorized Non-Stormwater Discharges Evaluation

2012 MSGP Part 6.2.3.4

Part 1.2.2 of the 2021 MSGP identifies authorized non-stormwater discharges. The questions below require you to provide documentation of the following:

- Evaluation for the presence of unauthorized non-stormwater discharges at your site; and
- Elimination of any unauthorized non-stormwater discharges.

Table 2-2

Date of Test or Evaluation	Outfalls Directly Observed	Method Used to Test or Evaluate Discharge	Description of Results	Potential Significant Sources	Person who Conducted Test or Evaluation
5/12/2021	Outfall #001 Outfall #002 Outfall #003	Visual Inspection	No flowing water in any of the outfalls	None	Michael Trovato Tighe & Bond

2.4 Salt Storage

2021 MSGP Part 6.2.3.5

Document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

There are no salt storage piles at the facility.

2.5 Sampling Data Summary

See 2021 MSGP Part 6.2.3.6

Existing permitted facilities must summarize all stormwater discharge sampling data collected at the facility during the previous permit term. Include a narrative description that adequately summarizes the collected sampling data to support identification of potential pollution sources. Note that data tables and/or figures may be used to aid the summary. New discharges and new sources must provide a summary of any available stormwater data they may have.

The Permittee collected numerous benchmark and effluent limitations monitoring samples during the prior term. A summary of the monitoring results is included at the end of this section. As shown on the provided tables, the average of all four quarterly results were below the applicable thresholds. Benchmark monitoring was voluntarily continued throughout the permit term.

Effluent limitations monitoring continued annually throughout the permit term. As shown on the provided tables, the effluent limitations monitoring results were below the applicable limitations.

Table 2.5
Summary of Stormwater Sampling Data
Peabody Ash Monofill
Peabody, Massachusetts
NPDES ID Number: MAR053687

Quarter	Benchmark Criteria	Effluent Criteria		2016			
				Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**
Sample ID		Monthly Average	Daily Max	Outfall 003	Outfall 002	Outfall 002	Outfall 002
Sample Date				3/18/2016	7/5/2016	11/16/2016	12/1/2016
Lab Sample ID		Monthly Average	Daily Max				
Analyte							
Iron (mg/L)	1	-	-	0.310	0.2	0.29	0.08
Total Suspended Solids (mg/L)	100	27	88	4	6	6	2
Biochemical Oxygen Demand (mg/L)	-	37	140	-	-	<2	-
Zinc (ug/L)	-	110	200	-	-	-	-
Phenol (ug/L)	-	15	26	-	-	-	-
Nitrogen, ammonia, total (mg/L)	-	4.9	10	-	-	0.11	-
p-Cresol (ug/L)	-	14	25	-	-	<10	-
Benzoic acids (ug/L)	-	71	120	-	-	<25	-
Alpha Terpineol (ug/L)	-	16	33	-	-	<5	-
		Min	Max				
pH (SU)	-	6	9	-	7.05	6.66	6.46

ug/l - micrograms/liter
mg/L - milligrams per liter
SU - standard units
Red and bolded values indicate an exceedance
"<##" - Sample not reported above reporting limit

Table 2.5
Summary of Stormwater Sampling Data
Peabody Ash Monofill
Peabody, Massachusetts
NPDES ID Number: MAR053687

Quarter	Benchmark Criteria	Effluent Criteria		2017			
				Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**
Sample ID		Monthly Average	Daily Max	Outfall 002	Outfall 002	Outfall 002	Outfall 002
Sample Date				3/7/2017	6/6/2017	7/7/2017	10/25/2017
Lab Sample ID		Monthly Average	Daily Max				
Analyte							
Iron (mg/L)	1	-	-	0.040	0.31	<0.04	0.15
Total Suspended Solids (mg/L)	100	27	88	<1	5	1	4
Biochemical Oxygen Demand (mg/L)	-	37	140	<4	-	-	-
Zinc (ug/L)	-	110	200	140	-	-	-
Phenol (ug/L)	-	15	26	<5	-	-	-
Nitrogen, ammonia, total (mg/L)	-	4.9	10	0.19	-	-	-
p-Cresol (ug/L)	-	14	25	<10	-	-	-
Benzoic acids (ug/L)	-	71	120	<10	-	-	-
Alpha Terpineol (ug/L)	-	16	33	<5	-	-	-
		Min	Max				
pH (SU)	-	6	9	6.51	6.53	6.38	7.03

ug/l - micrograms/liter
mg/L - milligrams per liter
SU - standard units
Red and bolded values indicate an exceedance
"<##" - Sample not reported above reporting limit

Table 2.5
Summary of Stormwater Sampling Data
Peabody Ash Monofill
Peabody, Massachusetts
NPDES ID Number: MAR053687

Quarter	Benchmark Criteria	Effluent Criteria		2018			
				Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**
Sample ID		Monthly Average	Daily Max	Outfall 002	Outfall 002	Outfall 002	Outfall 002
Sample Date				3/17/2018	4/25/2018	9/11/2018	11/19/2018
Lab Sample ID		Monthly Average	Daily Max				
Analyte							
Iron (mg/L)	1	-	-	0.110	<0.04	<0.04	0.1
Total Suspended Solids (mg/L)	100	27	88	7	2	1	3
Biochemical Oxygen Demand (mg/L)	-	37	140	-	-	<4	-
Zinc (ug/L)	-	110	200	-	-	100	-
Phenol (ug/L)	-	15	26	-	-	<2	-
Nitrogen, ammonia, total (mg/L)	-	4.9	10	-	-	<0.05	-
p-Cresol (ug/L)	-	14	25	-	-	<4	-
Benzoic acids (ug/L)	-	71	120	-	-	<2	-
Alpha Terpineol (ug/L)	-	16	33	-	-	<2	-
		Min	Max				
pH (SU)	-	6	9	6.67	6.58	6.28	6.66

ug/l - micrograms/liter
mg/L - milligrams per liter
SU - standard units
Red and bolded values indicate an exceedance
"<##" - Sample not reported above reporting limit

Table 2.5
Summary of Stormwater Sampling Data
Peabody Ash Monofill
Peabody, Massachusetts
NPDES ID Number: MAR053687

Quarter	Benchmark Criteria	Effluent Criteria		2019				
				Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**	
Sample ID		Monthly Average	Daily Max	Outfall 002	Outfall 002	Outfall 002	Outfall 002	Outfall 002
Sample Date				2/15/2019	4/26/2019	-	10/17/2019	11/18/19
Lab Sample ID		Monthly Average	Daily Max			-		
Analyte								
Iron (mg/L)	1	-	-	<1	<1	NO SAMPLE	**1.51**	0.040
Total Suspended Solids (mg/L)	100	27	88	<0.04	<0.04		14	1
Biochemical Oxygen Demand (mg/L)	-	37	140	-	-	-	4	-
Zinc (ug/L)	-	110	200	-	-	-	70	-
Phenol (ug/L)	-	15	26	-	-	-	<5	-
Nitrogen, ammonia, total (mg/L)	-	4.9	10	-	-	-	<0.05	-
p-Cresol (ug/L)	-	14	25	-	-	-	<5	-
Benzoic acids (ug/L)	-	71	120	-	-	-	<25	-
Alpha Terpineol (ug/L)	-	16	33	-	-	-	<5	-
		Min	Max					
pH (SU)	-	6	9	6.66	6.64	-	6.98	7.00

ug/l - micrograms/liter
mg/L - milligrams per liter
SU - standard units
Red and bolded values indicate an exceedance
"<##" - Sample not reported above reporting limit

Table 2.5
Summary of Stormwater Sampling Data
Peabody Ash Monofill
Peabody, Massachusetts
NPDES ID Number: MAR053687

Quarter	Benchmark Criteria	Effluent Criteria		2020				2021
				Quarter 1	**Quarter 2**	**Quarter 3**	**Quarter 4**	**Quarter 1**
Sample ID		Monthly Average	Daily Max	Outfall 002	Outfall 002	Outfall 002	Outfall 002	Outfall 002
Sample Date				3/27/2020	-		10/30/2020	2/19/2021
Lab Sample ID		Monthly Average	Daily Max					
Analyte								
Iron (mg/L)	1	-	-	0.040	NO SAMPLE	NO SAMPLE	<0.02	0.030
Total Suspended Solids (mg/L)	100	27	88	1			<1	1
Biochemical Oxygen Demand (mg/L)	-	37	140	-	-	-	<5	-
Zinc (ug/L)	-	110	200	-	-	-	13	-
Phenol (ug/L)	-	15	26	-	-	-	<2	-
Nitrogen, ammonia, total (mg/L)	-	4.9	10	-	-	-	0.13	-
p-Cresol (ug/L)	-	14	25	-	-	-	<4	-
Benzoic acids (ug/L)	-	71	120	-	-	-	ND	-
Alpha Terpineol (ug/L)	-	16	33	-	-	-	ND	-
		Min	Max					
pH (SU)	-	6	9	6.68	-	-	6.59	6.74

ug/l - micrograms/liter
mg/L - milligrams per liter
SU - standard units
Red and bolded values indicate an exceedance
"<##" - Sample not reported above reporting limit

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SECTION 3

Section 3
Stormwater Control Measures

3.1 Non-Numeric Technology-Based Effluent Limits

2021 MSGP Parts 2.1.2, Part 8, and 6.2.4

In Sections 3.1 - 3.4 of this SWPPP template, you are asked to describe the stormwater control measures (SCMs) that you have installed at your site to meet each of the permit's:

- Non-numeric technology-based effluent limits in Part 2.1.2;
- Applicable numeric effluent limitations guidelines-based limits in Part 2.1.3 and Part 8;
- Water quality-based effluent limits in Part 2.2;
- Any additional measures that formed the basis of eligibility regarding Endangered Species Act-listed threatened and endangered species or their critical habitat, National Historic Preservation Act historic properties, and/or federal CERCLA site requirements in Part 2.3; and
- Applicable effluent limits in Parts 8 and 9.

Regarding your control measures, you must also document, as appropriate:

- How you addressed the selection and design considerations in the 2021 MSGP Part 2.1.1); and
- How they address the pollutant sources identified at the facility.

In addition to complying with the non-numeric technology-based effluent limits in the MSGP, the Permittee will implement the stormwater control measures described below.

3.1.1 Minimize Exposure

2021 MSGP Part 2.1.2.1

Describe any structural controls or practices used to minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt and stormwater. Describe where the controls or practices are being implemented at your site.

The Permittee minimizes the potential for pollutant runoff by containing contact water and collecting it as leachate in the leachate collection system. Unless infeasible, the facility will also:

- Use grading, berming or curbing to prevent discharges of contaminated flows and divert run-on away from these areas;
- Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge;
- Perform all vehicle and/or equipment cleaning operations within the landfill cells to prevent discharges and run-on and also that capture any overspray; and
- Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks.

The Permittee employs the following industrial activity specific exposure minimization Best Management Practices (BMPs):

- Vegetative cover is maintained on the graded landfill side slopes once they reach permitted grades with intermediate cover or final closure systems; and
- The landfill is graded to contain runoff to within the landfill boundaries. Runoff is directed to three outfalls which discharge to areas of ILSF (Outfall 001 and 002) and an excavated depression (Outfall 003).

3.1.2 Good Housekeeping

2021 MSGP Parts 2.1.2.2 and 6.2.5.1.a

Describe any practices you are implementing to keep exposed areas of your site that are potential sources of pollutants clean. Describe where each practice is being implemented at your site. Include here your schedule or convention used for: (1) determining when pickup and disposal of waste materials occurs; and (2) routine inspections for leaks and conditions of drums, tanks, and containers. Note: There are specific requirements for facilities that handle pre-production plastic.

The Permittee performs good housekeeping measures, including but not limited to, the following:

- Sweep or vacuum at regular intervals;
- Store materials in appropriate containers;
- Identify and control all on-site sources of dust to minimize stormwater contamination from the deposition of dust on areas exposed to precipitation;
- Keep all dumpsters fit with a lid that must remain closed when not in use; and
- Ensure that waste, garbage, and floatable debris are not discharged to receiving waters by keeping exposed areas free of such materials or by intercepting them before they are discharged.

The Permittee employs the following industrial activity specific good housekeeping BMPs:

- The landfill access roads and shipping and receiving areas are routinely swept and/or watered;
- Inspections to outdoor equipment and control measures are performed on a frequent basis;
- The landfill foreman is in charge of pickup and disposal of waste materials which is performed on a regular basis, but not greater than one month apart. These activities include, but are not limited to, the cleaning of waste materials from the areas surrounding the catch basins and the cleaning of waste materials from outdoor material storage areas; and
- The supervisors that are a part of the Stormwater Pollution Prevention Team will oversee regular inspections of the outdoor drums, tanks and containers that contain the raw materials, if present at the facility. Facility inspections are performed on a frequent basis. Hazardous waste is not currently stored at the facility and the Permittee does not intend to store hazardous waste in the future. However, in the event that hazardous waste is stored on at the facility, the area will be inspected weekly.

3.1.3 Maintenance

2021 MSGP Parts 2.1.2.3 and 6.2.5.1.b

Describe procedures to: (1) maintain all control measures in effective operating condition; and (2) maintain industrial equipment and systems in order to minimize pollutant discharges. Include the schedule or frequency you will follow for such maintenance activities. Describe where each applicable procedure is being implemented at the site.

The Permittee maintains all control measures that are used to achieve the effluent limits required by this permit in effective operating condition, as well as all industrial equipment and systems to help prevent discharges of pollutants from them. This includes:

- Performing inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail;
- Diligently maintaining nonstructural control measures (i.e.- keep spill response supplies available and confirm personnel appropriately trained); and

If the Permittee finds that control measures need to be replaced or repaired, the Permittee must immediately take all reasonable steps to prevent or minimize the discharge of pollutants until a permanent solution is installed and made operational.

The Permittee employs the following industrial activity specific maintenance BMP techniques:

- Vegetative cover is maintained on the landfill side slopes with intermediate cover or final closure systems;
- Routine inspection and maintenance of landfill cover soils are conducted to minimize erosion and sedimentation of stormwater system structures;
- Shipping and receiving areas are included as part of the routine visual inspection to limit potential spills;
- Repairs to equipment and stormwater control measures are carried out as soon as possible after problems are discovered; and
- Inspections of equipment and control measures are performed on a frequent basis.

3.1.4 Spill Prevention and Response Procedures

2021 MSGP Parts 2.1.2.4 and 6.2.5.1.c

Describe any structural controls or procedures used to prevent the potential for leaks, spills, and other releases that may be exposed to stormwater and respond to any spills and leaks, including notification procedures. You must conduct spill prevention and response measures, including but not limited to the following:

- Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
- Use drip pans and absorbents if leaky vehicles and/or equipment are stored outdoors;
- Use spill/overflow protection equipment;
- Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;*
- Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas;
- Develop training on procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made; and
- Notify appropriate facility personnel when a leak, spill or other release occurs.
- Specify cleanup equipment, procedures and spill logs, as appropriate, in the event of spills.

Describe where each control is to be located or where applicable procedures will be implemented.

Note: Some facilities may be required to develop a Spill Prevention Control and Countermeasure (SPCC) plan under a separate regulatory program (40 CFR 112). If you are required to develop an SPCC plan, or you already have one, you may include references to the relevant requirements from your plan provided that you keep a copy of that other plan onsite and make it available for review.

EPA recommends you include:

Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC, metropolitan area, call (202) 267-2675 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the discharge. State or local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be in locations that are readily accessible and available.

The Permittee minimizes the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the following has been implemented:

- Plainly label containers that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
- Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means;
- Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases;

- Keep spill kits on-site, located near areas where spills may occur; and
- Notify appropriate facility personnel, emergency response agencies, and regulatory agencies when a leak, spill, or other release occurs.

Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity occurs during a 24-hour period, the Permittee must notify the National Response Center (NRC) at (800) 424-8802 as soon as the Permittee has knowledge of the discharge. Additionally, state or local requirements may require the reporting of spills or discharges to local emergency response personnel and public health or drinking water supply agencies. Contact information must be in locations that are readily accessible and available.

The Permittee employs the following industrial activity spill prevention and response procedures:

- Spilled material will be collected and disposed of properly in an effort to minimize stormwater contamination;
- The landfill is graded to contain runoff to within the landfill boundaries; and
- The landfill area is included as part of the routine facility inspections and facility personnel continually monitor the areas surrounding it to ensure that spilled materials are returned to the landfill.

3.1.5 Erosion and Sediment Controls

2021 MSGP Parts 2.1.2.5 and 6.2.5.1.d

Describe activities and processes for stabilizing exposed soils to minimize erosion. Describe flow velocity dissipation devices placed at all discharge locations and all structural and non-structural control measures to prevent the discharge of sediment. If applicable, describe the type and purpose of any polymers and/or chemical treatments used to control erosion and the location at your site where each control is implemented.

The Permittee employs the following industrial activity specific erosion and sediment controls:

- Vegetative cover is maintained on the landfill side slopes with intermediate cover or final closure systems;
- Routine inspection and maintenance of landfill cover soils are conducted to minimize erosion and sedimentation of stormwater system structures; and
- If an erosion or sediment problem is discovered through the regular inspections at the facility, Peabody will take corrective actions at that time.

At the time of preparation of this SWPPP, the Facility does not have the need for any other erosion or sediment controls. If an erosion or sediment problem is discovered through the regular inspections at the Facility, the Permittee will take corrective actions at that time. If any erosion or sediment controls are put in place, they will be documented and maintained at the end of this section.

3.1.6 Management of Stormwater

2021 MSGP Part 2.1.2.6

Describe controls used at your site to divert, infiltrate, reuse, contain, or otherwise reduce stormwater to minimize pollutants in your discharges. Describe the location at your site where each control is implemented.

The Facility must divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff, to minimize pollutants in the discharges.

The Permittee employs the following industrial activity specific management of runoff BMPs:

- The landfill is graded to contain all contact water to within the landfill boundaries; and
- Stormwater runoff that is not contained within the landfill boundaries is directed to three outfalls which discharge to areas of ILSF (Outfall 001 and 002) and an excavated depression (Outfall 003).

The Permittee will carefully examine the results from visual monitoring and the analytical testing of the facility stormwater outfalls per the indicator, benchmark monitoring, and effluent limitation requirements. If problems are identified, they will be addressed immediately. If the sampling results are found to exceed the established benchmark values or effluent limitations, the Permittee will investigate options and implement additional BMPs to minimize stormwater pollution.

3.1.7 Salt Storage Piles

2021 MSGP Part 2.1.2.7

If applicable, describe structures at your site that either cover or enclose salt storage piles or piles containing salt, and any controls that minimize or prevent the discharge of stormwater from such piles. Also, describe any measures (e.g. good housekeeping, diversions, containment) used to minimize exposure resulting from adding to or removing materials from the pile. Describe the location at your site where each control and/or procedure is implemented.

There are no salt storage piles at the Facility.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

2021 MSGP Part 2.1.2.10

Describe controls and procedures that will be used at your site to minimize generation of dust and off-site tracking of raw, final, or waste materials in order to minimize pollutants discharged via stormwater.

The Facility must minimize generation of dust and off-site tracking of raw, final, or waste materials.

The Permittee employs the following industrial activity specific dust generation and vehicle tracking BMPs:

- Residual ash disposed at the landfill is not dusty; the residual ash is wet-moist from water quenching following combustion; and
- The landfill access roads and shipping and receiving areas are routinely swept and/or watered.

3.2 Numeric Effluent Limitations Based On Effluent Limitations Guidelines

2021 MSGP Part 2.1.3

If you are in an industrial category subject to one of the ELGs identified in the table below (Table 2-1 of the 2021 MSGP), describe controls or procedures that will be implemented at your site to meet these effluent limitations guidelines.

The Facility is in an industrial category subject to effluent limitation guidelines in Table 2-1 of Part 2.1.3 of the permit (Sector L).

The Permittee is to the numeric effluent limitations as shown below.

Table 3-1 Numeric Effluent Limitations – Sector L

Parameter	Effluent Limit
Biochemical Oxygen Demand (BOD_5)	140 mg/L, daily maximum
	37 mg/L, monthly avg. maximum
Total Suspended Solids (TSS)	88 mg/L, daily maximum
	27 mg/L, monthly avg. maximum
Ammonia	10 mg/L, daily maximum
	4.9 mg/L, monthly avg. maximum
Alpha Terpineol	0.033 mg/L, daily maximum
	0.016 mg/L monthly avg. maximum
Benzoic Acid	0.12 mg/L, daily maximum
	0.071 mg/L, monthly avg. maximum
p-Cresol	0.025 mg/L, daily maximum
	0.014 mg/L, monthly avg. maximum
Phenol	0.026 mg/L, daily maximum
	0.015 mg/L, monthly avg. maximum
Total Zinc	0.20 mg/L, daily maximum
	0.11 mg/L, monthly avg. maximum
pH	Within the range of 6-9 standard pH units (s.u.)

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

2021 MSGP Part 2.2.1

Describe the measures that will be implemented at your site to control industrial stormwater discharge as necessary to meet applicable water quality standards of all applicable states, tribes, and U.S. territories.

EPA expects that compliance with the conditions in this permit will control discharges as necessary to meet applicable water quality standards. If at any time you become aware, or EPA determines, that your stormwater discharge will not be controlled as necessary such that the receiving water of the United States will not meet an applicable water quality standard, you must take corrective action(s) as required in Part 5.1 of the 2021 MSGP and document the corrective actions as required in 2021 MSGP Part 5.3. You must also comply with any additional requirements that your state or tribe requires in 2021 MSGP Part 9.

EPA may also require that you undertake additional control measures (to meet the narrative water quality-based effluent limit above) on a site-specific basis, or require you to obtain coverage under an individual permit, if information in your NOI, required reports, or from other sources indicates that your discharges are not controlled as necessary such that the receiving water of the United States will not meet applicable water quality standards. You must implement all measures necessary to be consistent with an available wasteload allocation in an EPA-established or approved TMDL.

3.4 Sector-Specific Non-Numeric Effluent Limits

2021 MSGP Part 8

Describe any controls or procedures that will be used at your site to comply with any sector-specific requirements that apply to you in Part 8 of the 2021 MSGP. Describe the location at your site where each control and/or procedure will be implemented.

Note: Sector-specific effluent limits apply to Sectors A, E, F, G, H, I, J, L, M, N, O, P, Q, R, S, T, U, V, X, Y, Z and AA.

The Permittee is subject to the following Sector Specific Requirements for Sector L: Subsector L1 and L2.

1. **Additional Technology Based Effluent Limits**

    a. **Preventive Maintenance Program** – As part of the preventative maintenance program, maintain the following: all elements of leachate collection and treatment systems, to prevent commingling of leachate with stormwater; the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary, to minimize the effects of settlement, sinking, and erosion. **Applicable to the Permittee.**

    b. **Erosion and Sedimentation Control** – Provide temporary stabilization (e.g. temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following in order to minimize discharges of pollutants in stormwater: materials stockpiled for daily, intermediate, and final cover; inactive areas of the landfill or open dump; landfills or open dump areas that have gotten final covers but where vegetation has yet to establish itself; and land application sites where waste application has been completed but final vegetation has not yet been established. **Applicable to the Permittee.**

2. Additional SWPPP Requirements

a. **Drainage Area Site Map –** Document where any of the following may be exposed to precipitation or surface run off:

i. Active and closed landfill cells or trenches, active and closed land application areas, locations where open dumping is occurring or has occurred, locations of any known leachate springs or other areas where uncontrolled leachate may commingle with stormwater, and leachate collections and handling systems.

The site plan in Appendix A includes the above referenced areas.

b. **Summary of Potential Pollutant Sources** – Document the following additional sources and activities that have potential pollutants associated with them:

i. Fertilizer, herbicide, and pesticide application, earth and soil moving, waste hauling and loading or unloading, outdoor storage of significant materials, including daily, interim, and final cover material stockpiles as well as temporary waste storage areas, exposure of active and inactive landfill and land application areas, uncontrolled leachate flows, and failure or leaks from leachate collection systems.

3. **Additional Inspection Requirements -** Except in arid and semi-arid climates, inspect operating landfills, open dumps, and land application sites at least once every 7 days. Focus on areas of landfills that have not yet been finally stabilized; active land applications areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatment systems, and locations where equipment and waste trucks enter and exit the site. Ensure that sediment and erosion control measures are operating properly. For stabilized sites and areas where land application has been completed, or where the climate is arid or semi-arid, conduct inspections at least once every month. **As the Facility is an operating landfill, weekly inspections are applicable to the Permittee.**

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SECTION 4

Section 4
Schedules and Procedures

4.1 Good Housekeeping

2021 MSGP Part 6.2.5.1.a

Document a schedule or the convention used for determining when pickup and disposal of waste materials occurs (e.g., roll off dumpsters are collected when full). Provide a schedule for routine inspections for leaks and conditions of drums, tanks, and containers.

The Stormwater Pollution Prevention Team will conduct inspections weekly and oversee the pickup and disposal of waste materials. During these inspections, all other areas of the facility are observed to determine if solid wastes, recyclables or other non-hazardous wastes have accumulated to the point of requiring an off-site shipment.

The landfill staff members that are a part of the Stormwater Pollution Prevention Team shall also oversee regular inspections of any outdoor drums, tanks and containers that contain raw materials and potentially hazardous materials, which should be performed on a frequent basis (at least once a month). Hazardous waste is not currently stored at the facility and the Permittee does not intend to store hazardous waste in the future. However, in the event that hazardous waste is stored at the facility, it will be inspected weekly.

4.2 Maintenance

2021 MSGP Part 6.2.5.1.b

Document preventative maintenance procedures, including regular inspections, testing, maintenance and repair of all stormwater control measures to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a runoff event occur while a control measure is off-line. Include the schedule or frequency for maintaining all control measures used to comply with the effluent limits in Part 2 of the 2021 MSGP.

As discussed in Section 4.6, the Stormwater Pollution Prevention Team will conduct inspections of control measures weekly. Repairs to stormwater control measures shall be carried out as soon as possible after the problem is discovered.

4.3 Spill Prevention and Response Procedures

2021 MSGP Part 6.2.5.1.c

Document procedures for preventing and responding to spills and leaks, including notification procedures. For preventing spills, include stormwater control measures for material handling and storage, and the procedures for preventing spills that can contaminate stormwater. Also specify cleanup equipment, procedures and spill logs, as appropriate, in the event of spills. You may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC) developed for the facility under Section 311 of the Clean Water Act (CWA) or best management practices (BMP) programs otherwise required by an NPDES permit for the facility, provided that you keep a copy of that other plan on-site and make it available for review.

All spills of hazardous materials at the Facility will be handled in accordance with local, state and federal laws, as well as the Facility Operations and Maintenance Plan. In the event that a spill occurs

4.4 Erosion and Sediment Controls

2021 MSGP Part 6.2.5.1.d

Document if polymers and/or other chemical treatments are used as part of your erosion and sediment controls and identify the polymers and/or chemicals used and the purpose.

The Permittee does not use any polymers or other chemical treatments for erosion controls. At this time, no addition controls are required.

4.5 Employee Training

2021 MSGP Part 2.1.2.8 and Part 6.2.5.1.e

Provide the elements of your training plan, including, but not necessarily limited to:

- The content of the training;
- The frequency/schedule of training for employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of the permit; and
- A log of the dates on which specific employees received training.

The following personnel, at a minimum, receive training at the facility:

- Personnel who are responsible for the design, installation, maintenance, and/or repair of controls (including pollution prevention measures);
- Personnel responsible for the storage and handling of chemicals and materials that could become pollutants discharged via stormwater;
- Personnel who are responsible for conducting and documenting monitoring and inspections as required in 2021 MSGP Parts 3 and 4; and
- Personnel who are responsible for taking and documenting corrective actions as required in 2021 MSGP Part 5.

The MSGP also requires that the personnel who are required to be trained must also be trained to understand the following if related to the scope of their job duties (e.g., only personnel responsible for conducting inspections need to understand how to conduct inspections):

- An overview of what is in the SWPPP;
- Spill response procedures, good housekeeping, maintenance requirements, and material management practices;
- The location of all the controls required by this permit, and how they are to be maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

Once per year, applicable staff receive site-specific training. This training is conducted utilizing a slide show presentation and includes a site walk to review stormwater site features, such as sampling locations and potential pollutant sources. A record of this training, along with all training materials, is documented in the site's stormwater file. A sign-in sheet is provided as Appendix D of this SWPPP.

4.6 Inspections and Assessments

2021 MSGP Part 3 and Part 6.2.5.2

Document procedures for performing the types of inspections specified by this permit, including:

- Routine facility inspections (see 2021 MSGP Part 3.1) and;
- Quarterly visual assessment of stormwater discharges (see 2021 MSGP Part 3.2).

4.6.1 Quarterly Visual Assessment

2021 MSGP Part 3.2

Describe the procedures you will follow for conducting quarterly visual assessments in accordance with Part 3.2 of the 2021 MSGP.

Document the results of your visual assessments and maintain this documentation on-site with your SWPPP as required in 2021 MSGP Part 6.5. Any corrective action required as a result of a quarterly visual assessment must be performed consistent with 2021 MSGP Part 5.

Once during each quarter of permit coverage, the Permittee collects a stormwater sample from each discharge point (except as noted in Part 3.2.4) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but are collected in such a manner that the samples are representative of the stormwater discharge.

Quarterly Visual Inspections are collected in accordance with the following procedures:

- The assessment of a stormwater discharge sample is performed in a clean, colorless glass or plastic container and examined in a well-lit area.
- The assessment of the sample collected is performed within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample is collected as soon as practicable after the first 30 minutes and you must document why it was not possible to collect the sample within the first 30 minutes. In the case of snowmelt, samples must be collected during a period with a measurable discharge.
- For storm events, assessments are made on discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if the Permittee documents that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period.

Each sample is visually observed for the following water quality characteristics, which may be evidence of stormwater pollution:

- Color
- Odor
- Clarity (diminished)
- Floating solids
- Settled solids
- Suspended solids
- Foam
- Oil sheen
- Other obvious indicators of stormwater pollution.

Whenever the visual assessment shows evidence of stormwater pollution in the discharge, Corrective Actions must be initiated.

The quarterly visual inspection form (Form 1) is included in Appendix B.

4.6.2 Routine Facility Inspections

2021 MSGP Part 3.1

Describe the procedures you will follow for conducting routine facility inspections in accordance with Part 3.1 of the 2021 MSGP. Document any findings of your facility inspections and maintain this report with your SWPPP as required in Part 6.5 of the 2021 MSGP. Summarize your findings in the annual report per 2021 MSGP Part 7.4. Any corrective action required as a result of a routine facility inspection must be performed consistent with 2021 MSGP Part 5.

Routine Inspections at the facility are performed by qualified personnel with at least one member of the stormwater pollution prevention team participating. Qualified personnel are those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures.

During normal facility operating hours, the qualified personnel conduct inspections of areas of the facility covered by the requirements in this permit, including, but not limited to, the following:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the past three years;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in this permit.

During the inspection, the qualified personnel examine the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks, manholes, and other containers;
- Off-site tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas;
- Erosion of soils at the facility, channel and streambank erosion and scour in the immediate vicinity of discharge points;
- Non-authorized non-stormwater discharges; and
- Control measures needing replacement, maintenance or repair.

During an inspection occurring during a stormwater event or stormwater discharge, you must observe control measures implemented to comply with effluent limits to ensure they are functioning correctly. The Permittee must also observe discharge points during this inspection. If such discharge locations are inaccessible, the Permittee must inspect nearby downstream locations.

The qualified personnel will conduct routine facility inspections least quarterly at the facility. At least once each calendar year, the routine inspection is conducted during a period when a stormwater discharge is occurring. The Permittee documents the findings of the facility inspections

and maintain this report with the stormwater files. Corrective actions required as a result of a routine facility inspections are also documented in the file. These reports are not submitted to the EPA, unless specifically requested. However, the Permittee summarizes all findings in the annual report.

The routine facility inspection form (Form 2) is included in Appendix C.

4.6.3 Sector-Specific Inspection Requirements

2021 MSGP Part 8

Additional Inspection Requirements - Except in arid and semi-arid climates, inspect operating landfills, open dumps, and land application sites at least once every 7 days. Focus on areas of landfills that have not yet been finally stabilized; active land applications areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatment systems, and locations where equipment and waste trucks enter and exit the site. Ensure that sediment and erosion control measures are operating properly. For stabilized sites and areas where land application has been completed, or where the climate is arid or semi-arid, conduct inspections at least once every month.

Weekly Inspections at the Facility are performed by qualified personnel with at least one member of the stormwater pollution prevention team participating. Qualified personnel are those who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility, and who can also evaluate the effectiveness of control measures.

During normal facility operating hours, the qualified personnel conduct inspections of areas of the facility focusing on:

- Active applications areas;
- Material storage areas;
- Stabilization measures;
- Stormwater structural control measures;
- Leachate collection and treatment systems;
- Equipment and vehicle travel routes; and
- Sediment and erosion control measures.

The Permittee documents the findings of the weekly inspections and maintain this report with the stormwater files. Corrective actions required as a result of a routine facility inspections are also documented in the file. These reports are not submitted to the EPA, unless specifically requested. However, the Permittee summarizes all findings in the annual report.

The weekly inspection log (Form 3) is included in Appendix C.

4.7 Monitoring

2021 MSGP Part 6.2.5.3

Describe your procedures for conducting the six types of analytical stormwater discharge monitoring specified by the 2021 MSGP, where applicable to your facility, including:

- Indicator monitoring (2021 MSGP Part 4.2.1):
- Benchmark monitoring (2021 MSGP Part 4.2.2 and relevant requirements in Part 8 and/or Part 9);
- Effluent limitations guidelines monitoring (2021 MSGP Part 4.2.3 and relevant requirements in Part 8);
- State- or tribal-specific monitoring (2021 MSGP Part 4.2.4 and relevant requirements in Part 9);
- Impaired waters monitoring (2021 MSGP Part 4.2.5); and
- Other monitoring as required by EPA (2021 MSGP Part 4.2.6).

Depending on the type of facility you operate, and the monitoring requirements to which you are subject, you must collect and analyze stormwater samples and document monitoring activities consistent with the procedures described in 2021 MSGP Part 6 and Appendix B, Subsections 10 – 12, and any additional sector-specific or state/tribal-specific requirements in 2021 MSGP Parts 8 and 9, respectively. Refer to 2021 MSGP Part 7 for reporting and recordkeeping requirements. *Note: All monitoring must be conducted in accordance with the relevant sampling and analysis requirements at 40 CFR Part 136*. Include in your description procedures for ensuring compliance with these requirements.

If you plan to use the substantially identical discharge point exception for your benchmark monitoring requirements, impaired waters monitoring requirements, and/or your quarterly visual assessment, you must include the following documentation:

- Location of each of the substantially identical discharge points;
- Description of the general industrial activities conducted in the drainage area of each discharge point;
- Description of the control measures implemented in the drainage area of each discharge point;
- Description of the exposed materials located in the drainage area of each discharge point that are likely to be significant contributors of pollutants to stormwater discharges;
- An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%); and
- Why the discharge points are expected to discharge substantially identical effluents.

The Permittee is subject to the following monitoring requirements.

Table 4-1 Monitoring Applicability

Type	Applicable	Outfalls	Frequency
Indicator	Yes	All	Quarterly
Benchmark	Yes	All	Quarterly
Effluent Limitations	Yes	All	Annual
State/Tribal	No	-	-
Impaired Waters	No	-	-
Other	No	-	-

Stormwater discharge monitoring is conducted in accordance with the following procedures:

- The sample collection is performed within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample is collected as soon as practicable after the first 30 minutes and you must document why it was not possible to collect the sample within the first 30 minutes. In the case of snowmelt, samples must be collected during a period with a measurable discharge.
- For storm events, the sample is collected from discharges that occur at least 72 hours (three days) from the previous discharge. The 72-hour (three-day) storm interval does not apply if the Permittee documents that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period.

4.7.1 Benchmark Monitoring

The MSGP requires benchmark monitoring parameters of stormwater discharges for certain sectors/subsectors. The benchmark thresholds are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. However, if a benchmark exceedance triggers Additional Implementation Measures ("AIM"), failure to conduct any required measures is a permit violation. The Permittee may take more than four samples during separate stormwater discharge events to determine the average benchmark parameter value for facility discharges, if necessary.

The Permittee must monitor stormwater discharges for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities. Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark thresholds for all benchmark parameters for which sampling is required (i.e. sufficiently sensitive methods). For averaging purposes, a value of zero may be used for any individual sample parameter which is determined to be less than the method detection limit. For sample values that fall between the method detection limit and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit.

The three outfalls onsite are substantially identical discharge points and therefore can be included as an exception for the benchmark monitoring requirements, impaired waters monitoring requirements, and/or your quarterly visual assessment. The locations of the substantially identical discharge points are shown on the included site plan. The activities onsite are consistent throughout the site and drainage areas and include landfilling, where the contact water runoff is contained to the landfill/leachate collection system and transporting of materials to the landfilling area. Cover materials and grading are utilized to minimize the potential for pollutants to be discharged from the site.

The Permittee is subject to the benchmark parameters and thresholds in the table below.

Table 4-2 Benchmark Monitoring Parameters – Sector L1

Parameter	Benchmark Threshold
Total Suspended Solids	100 mg/L

If the annual average for a parameter exceeds the benchmark threshold, AIM's must be implemented.

The MSGP only requires benchmark monitoring for parameters applicable to each subsector(s) for four quarters in your first year and fourth year of permit coverage. However, TSS, which is the only

benchmark parameters, is also included in the indicator monitoring described in Section 4.7.3 which is required quarterly for the entirety of permit.

4.7.2 Impaired Waters Monitoring

A facility is considered to discharge to an impaired water if the first water of the United States to which you discharge is identified by a state, tribe, or EPA pursuant to section 303(d) of the CWA as not meeting an applicable water quality standard or has been removed from the 303(d) list either because the impairments are addressed by an EPA-approved or established TMDL or is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1) (see Part 4.2.5.1.b below). For discharges that enter a separate storm sewer system prior to discharge, the first water of the United States to which you discharge is the waterbody that receives the stormwater discharge from the separate storm sewer system.

The Facility does not discharge to an impaired waterway.

4.7.3 Indicator Monitoring – pH, TSS, COD

The MSGP requires indicator monitoring of stormwater discharges for certain sectors/subsectors. Facilities applicable to Sector L2 of the MSGP are required to perform indicator monitoring pH, Total Suspended Solids (TSS), and Chemical Oxygen Demand (COD). The indicator monitoring parameters are "report-only" and do not have thresholds or baseline values for comparison, therefore no follow-up action is triggered or required.

Table 4-3 Indicator Monitoring Parameters – Sector L2

Parameter	Threshold
pH	Report Only
Total Suspended Solids	Report Only
Chemical Oxygen Demand	Report Only

4.7.3.1 Schedule

Indicator monitoring of stormwater discharges is required quarterly for the entirety of permit coverage beginning in your first full quarter of permit coverage, no earlier than May 30, 2021.

4.7.4 Indicator Monitoring – PAHs

Facilities applicable to Sector L of the MSGP are required to perform indicator monitoring for Polycyclic Aromatic Hydrocarbons (PAH's) for stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit.

The Permittee does not intend on sealing paved areas with coal-tar sealcoat. Should pavement improvements occur during this permit cycle, alternatives to coal-tar based sealcoats will be utilized.

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SECTION 5

Section 5
Endangered Species and Historic Places

5.1 Endangered Species Act

2021 MSGP Part 6.2.6.1

Include any documentation you have that supports your determination of eligibility consistent with 2021 MSGP, Part 1.1.4 (Eligibility Related to Endangered Species Act (ESA) Listed Species and Critical Habitat Protection). Refer to Appendix E of the 2021 MSGP for specific instructions for establishing eligibility.

Information supporting the Endangered Species Act determination of eligibility is included at the end of this section. The Permittee is eligible for Criterion C1 as the Facility was eligible for Criterion C in the 2015 MSGP and there has been no change the facility's action area or to listed species, critical habitat, or action area. The following resources were consulted to support the selection of the criterion:

- U.S Fish and Wildlife Service ("USFWS") - IPaC project planning tool; and
- National Marine Fisheries Service ("NMFA") – NOAA online directory and the Greater Atlantic Region ESA Section 7 Mapper

5.2 National Historic Preservation Act

2021 MSGP Part 6.2.6.2

Include any documentation you have that supports your determination of eligibility consistent with 2021 MSGP Part 1.1.5 (Eligibility related to National Historic Preservation Act (NHPA)-Protected Properties). Refer to 2021 MSGP, Appendix F for specific instructions for establishing eligibility.

Information supporting the National Historic preservation Act determination of eligibility is included at the end of this section. Please be advised that as the Permittee had coverage under the prior MSGP, Criterion A has been met. A list of historically significant properties surrounding the permittee has been provided for reference, however, the facility discharge will have no adverse effect on them.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To: May 17, 2021
Consultation Code: 05E1NE00-2021-SLI-3246
Event Code: 05E1NE00-2021-E-09763
Project Name: Peabody Ash Monofill 2021 MSGP

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-3246
Event Code: 05E1NE00-2021-E-09763
Project Name: Peabody Ash Monofill 2021 MSGP
Project Type: ** OTHER **
Project Description: Peabody Ash Monofill Landfill 2021 MSGP Permit
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.52931805,-70.98938940963211,14z

Counties: Essex County, Massachusetts

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis*	Threatened

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Drawn Action Area & Overlapping S7 Consultation Areas

Area of Interest (AOI) Information

Area : 2,810.12 acres

May 17 2021 12:06:47 Eastern Daylight Time

Summary

Name	Count	Area(acres)	Length(mi)
Atlantic Sturgeon	0	0	N/A
Shortnose Sturgeon	0	0	N/A
Atlantic Salmon	0	0	N/A
Sea Turtles	0	0	N/A
Atlantic Large Whales	0	0	N/A
In or Near Critical Habitat	0	0	N/A

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Peabody; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
PEA.A	Peabody Civic Center		Peabody	
PEA.B	Washington Street Historic District		Peabody	
PEA.C	Washington Place		Peabody	
PEA.D	Elm Street		Peabody	
PEA.E	Park Square		Peabody	
PEA.F	Thorndike Street		Peabody	
PEA.G	Eastman Gelatin Corporation		Peabody	
PEA.H	Lawrence Tannery Apartments		Peabody	
PEA.I	Lawrence, A. C. Water River Plant		Peabody	
PEA.J	Peabody Center Area		Peabody	
PEA.K	First Period Buildings of Eastern Massachusetts		Peabody	
PEA.L	Larrabee and Hingston Wood Tanning Vessel Company		Peabody	
PEA.M	Saint Thomas the Apostle Roman Catholic Church		Peabody	
PEA.N	Vaughn Machine Factory Iron and Brass Foundry		Peabody	
PEA.135	Northend, C. House	9 Aborn St	Peabody	c 1852
PEA.134	Price, J. House	26 Aborn St	Peabody	c 1856
PEA.181	Price, John House	71 Andover St	Peabody	c 1806
PEA.182	Hooper, Mathew House	193 Andover St	Peabody	1835
PEA.183	Hooper, Mathew House	199 Andover St	Peabody	c 1830
PEA.178	Proctor, Thorndike House	201 Andover St	Peabody	c 1750
PEA.99	Fellows, William H. House	5 Basford Ct	Peabody	c 1895
PEA.100	Basford, Mary S. House	6 Basford Ct	Peabody	c 1890
PEA.101	Fellows, William H. House	7 Basford Ct	Peabody	c 1895
PEA.102	Basford, Mary L. House	8 Basford Ct	Peabody	1890
PEA.103	Fellows, William H. House	9 Basford Ct	Peabody	c 1884

Inv. No.	Property Name	Street	Town	Year
PEA.104	Beggs, Foster House	10 Basford Ct	Peabody	c 1890
PEA.105	Fellows, William H. House	11 Basford Ct	Peabody	c 1884
PEA.907	South Middleton Bridge	Boston St	Peabody	1936
PEA.176	Gardner, Lt. George House	106 Bow St	Peabody	1670
PEA.27	Sun Tavern - Dustin Hotel	2 Central St	Peabody	1825
PEA.357	Rosenfelt Building	5 Central St	Peabody	1917
PEA.198	Poor, Enoch House	39 Central St	Peabody	c 1861
PEA.199	Whitney, Annie House	40 Central St	Peabody	r 1872
PEA.200	Jacobs, Daniel House	42-44 Central St	Peabody	c 1773
PEA.201	Buxton, Henry House	52 Central St	Peabody	c 1775
PEA.202	Third Peabody High School	75 Central St	Peabody	c 1903
PEA.203	Bowditch School	84 Central St	Peabody	c 1856
PEA.204	Jocelyn, Hercules H. House	88 Central St	Peabody	c 1808
PEA.257	Farnsworth School	103 Central St	Peabody	c 1926
PEA.205	Blaney, Stephen House	106 Central St	Peabody	c 1856
PEA.206	Osborn, John House	121 Central St	Peabody	c 1761
PEA.45		10 Chestnut St	Peabody	c 1840
PEA.46		12 Chestnut St	Peabody	c 1855
PEA.47	Taylor - Low House	15 Chestnut St	Peabody	c 1850
PEA.48	Baker, Frank House	16 Chestnut St	Peabody	c 1890
PEA.49	Whitney, John House	18 Chestnut St	Peabody	c 1835
PEA.40	Saint John's Parish	19 Chestnut St	Peabody	r 1872
PEA.41	Saint John's School	19 Chestnut St	Peabody	1916
PEA.42	Saint John's Convent	19 Chestnut St	Peabody	1895
PEA.43	Saint John's Rectory	19 Chestnut St	Peabody	1900
PEA.50	South Congregational Church Parsonage	20 Chestnut St	Peabody	c 1888
PEA.51	Dane, Francis House	26 Chestnut St	Peabody	c 1856
PEA.52	Allen, Lewis House	28 Chestnut St	Peabody	c 1855
PEA.53		30 Chestnut St	Peabody	c 1850
PEA.54	Berry, William House	18 Church St	Peabody	c 1844
PEA.55	Taylor, Alfred House	20 Church St	Peabody	c 1858
PEA.156	Woodbury, A. B. House	10 Crowninshield St	Peabody	c 1865
PEA.243	Crownshield, Richard House	18 Crownshield St	Peabody	c 1815
PEA.284		2 Elliot Pl	Peabody	c 1850
PEA.285		8 Elliot Pl	Peabody	c 1915
PEA.286		10 Elliot Pl	Peabody	c 1915
PEA.207		5 Elm St	Peabody	r 1900
PEA.208	Poor, Joseph House	10 Elm St	Peabody	r 1836

Inv. No.	Property Name	Street	Town	Year
PEA.209	Ward, H. P. House	12 Elm St	Peabody	c 1852
PEA.210	Berry, William House	18 Elm St	Peabody	c 1870
PEA.211	Messer, Albert T. House	19 Elm St	Peabody	c 1870
PEA.212		21 Elm St	Peabody	c 1852
PEA.213	Pender, Samuel D. House	26 Elm St	Peabody	c 1860
PEA.214	Dunney, James House	31 Elm St	Peabody	c 1790
PEA.247	Osborn, F. P. Company	40 Endicott St	Peabody	c 1919
PEA.256	Peabody Electric Light Plant	70 Endicott St	Peabody	1891
PEA.372	Peabody Engine #3 Firehouse	38 Felton St	Peabody	1875
PEA.8	Felton, Nathaniel Jr. House	43 Felton St	Peabody	1683
PEA.7	Felton, Nathaniel Sr. House	47 Felton St	Peabody	1644
PEA.239	Peabody Almshouse	10 First Ave	Peabody	1844
PEA.20	King, Henry A. House	2 Forest St	Peabody	c 1860
PEA.25	Blaney, William Block	10 Foster St	Peabody	1874
PEA.350	Shackley, Moses A. House	12 Foster St	Peabody	c 1844
PEA.349	Whidden, A. H. and Son Company	16 Foster St	Peabody	1900
PEA.261	U. S. Post Office - Peabody Main Branch	22 Foster St	Peabody	1939
PEA.236	Southwick, L. B. Company	80 Foster St	Peabody	c 1905
PEA.356	Marine Hardware	103 Foster St	Peabody	c 1898
PEA.237	Carr Leather Company	111 Foster St	Peabody	c 1917
PEA.238	Danvers Bleachery	119 Foster St	Peabody	c 1847
PEA.56	King, Eben House	14 Franklin St	Peabody	c 1845
PEA.57	Masterson, Michael House	15 Franklin St	Peabody	c 1915
PEA.58	Smith, Richard House	17 Franklin St	Peabody	c 1840
PEA.59	Proctor, Henry H. House	20 Franklin St	Peabody	c 1860
PEA.60	Walker, Mary S. House	20A Franklin St	Peabody	c 1891
PEA.61	Fernald, Stephen House	21 Franklin St	Peabody	c 1845
PEA.62	Phillips, Alonzo P. House	22 Franklin St	Peabody	c 1845
PEA.63	Barnard, Willis House	25 Franklin St	Peabody	c 1844
PEA.64	Clough, J. House	26 Franklin St	Peabody	c 1870
PEA.65	Upton, Elijah House	27 Franklin St	Peabody	c 1844
PEA.66	Upton, Elijah House	30 Franklin St	Peabody	c 1860
PEA.67		32 Franklin St	Peabody	c 1880
PEA.68	Noulton, Warren House	36 Franklin St	Peabody	c 1842
PEA.69	Hardy, Isaac House	37 Franklin St	Peabody	c 1842
PEA.70	Hardy, Isaac House	39 Franklin St	Peabody	c 1842
PEA.71	Walker, Theophilus W. House	40 Franklin St	Peabody	c 1840
PEA.72	Poor, Frank House	42 Franklin St	Peabody	c 1872

Inv. No.	Property Name	Street	Town	Year
PEA.73	Pickering, John F. House	43 Franklin St	Peabody	c 1870
PEA.74	Mayhue, N. House	48 Franklin St	Peabody	c 1852
PEA.75		49 Franklin St	Peabody	c 1853
PEA.76	Tilton, George House	50 Franklin St	Peabody	c 1859
PEA.77	Kimball, George A. House	51 Franklin St	Peabody	c 1850
PEA.78		53 Franklin St	Peabody	c 1870
PEA.79	Guy, E. C. House	55 Franklin St	Peabody	c 1870
PEA.80		56 Franklin St	Peabody	c 1860
PEA.81	Upton, G. House	57 Franklin St	Peabody	c 1870
PEA.82	Woodbury, Nathaniel House	58 Franklin St	Peabody	c 1870
PEA.83	Harrington, Augustus House	62 Franklin St	Peabody	c 1870
PEA.219	Lewis, G. E. House	66 Franklin St	Peabody	c 1870
PEA.220	Lake, D. G. House	72 Franklin St	Peabody	c 1870
PEA.221	Perkins, Horace M. House	78 Franklin St	Peabody	r 1871
PEA.222	Batchelder, Cyrus E. House	81 Franklin St	Peabody	r 1878
PEA.223	Moore - Hill House	82 Franklin St	Peabody	1878
PEA.224	Perkins, H. House	84 Franklin St	Peabody	c 1870
PEA.225	Emerson, George House	86 Franklin St	Peabody	r 1880
PEA.188	Sim, Robert J. House	2 Gardner St	Peabody	r 1905
PEA.189	Sim, Peter House	4 Gardner St	Peabody	c 1897
PEA.190	Lord, J. A. House	6 Gardner St	Peabody	c 1897
PEA.191	Blaney, J. Edwin House	8 Gardner St	Peabody	c 1905
PEA.192	Swett, S. Estate	9 Gardner St	Peabody	c 1897
PEA.193	Swett, S. Estate	11 Gardner St	Peabody	c 1897
PEA.194	Meagher, John House	15 Gardner St	Peabody	c 1907
PEA.195		17 Gardner St	Peabody	c 1852
PEA.196		63 Gardner St	Peabody	c 1872
PEA.226	Needham, E. House	1 Goodale St	Peabody	c 1852
PEA.227	Goodell, Robert House	105 Goodale St	Peabody	c 1650
PEA.233	Daniels, Robert S. Building	41 Hardy St	Peabody	c 1840
PEA.180	Buxton, John House	1 Hilltop Dr	Peabody	c 1856
PEA.179		2 Hilltop Dr	Peabody	c 1832
PEA.315	Cook, Henry House	5 Holten St	Peabody	1849
PEA.316		7 Holten St	Peabody	1910
PEA.317	Shove, Jonathan House	9 Holten St	Peabody	1839
PEA.136	Upton, E. H. House	10 Holten St	Peabody	c 1852
PEA.137	Nagle, J. F. House	11 Holten St	Peabody	c 1910
PEA.318		12 Holten St	Peabody	1848

Inv. No.	Property Name	Street	Town	Year
PEA.138	Robbins, H. House	14 Holten St	Peabody	c 1872
PEA.139	Cooke, H. House	15 Holten St	Peabody	c 1872
PEA.319	Beckett, Joseph House	16 Holten St	Peabody	1844
PEA.140	McIntyre, S. W. House	22 Holten St	Peabody	c 1852
PEA.141	Osborne, S. House	24 Holten St	Peabody	c 1852
PEA.142	Proctor, Abel House	25 Holten St	Peabody	c 1872
PEA.143	Trask, M. House	26 Holten St	Peabody	c 1852
PEA.144		29 Holten St	Peabody	c 1852
PEA.145	Pender House	30 Holten St	Peabody	c 1852
PEA.146		36 Holten St	Peabody	c 1832
PEA.147	Kimball, A. House	37 Holten St	Peabody	c 1872
PEA.148	Pierce, B. Estate	39-41 Holten St	Peabody	c 1897
PEA.149	Chandler House	42 Holten St	Peabody	c 1852
PEA.150	Spaulding, L. House	43 Holten St	Peabody	c 1872
PEA.151	Dennison and Moore House	44 Holten St	Peabody	c 1872
PEA.152		58 Holten St	Peabody	c 1845
PEA.360	O'Shea, T. H. Tannery Company Laboratory	Howley St	Peabody	c 1925
PEA.361	O'Shea, T. H. Tannery Company Boiler House	Howley St	Peabody	1916
PEA.362	Larrabee and Hingston Company - Main Shop Building	Howley St	Peabody	c 1840
PEA.363	Larrabee and Hingston Company Lumber Drying Shed	Howley St	Peabody	c 1903
PEA.364	Larrabee and Hingston Company Lumber Storage Shed	Howley St	Peabody	c 1920
PEA.365	Larrabee and Hingston Company Office Building	Howley St	Peabody	c 1873
PEA.366	Jeffers Lumber and Milling Company Saw Mill	Howley St	Peabody	1986
PEA.910	Howley Street Bridge over North River	Howley St	Peabody	r 1880
PEA.245		8-10 Howley St	Peabody	c 1830
PEA.244	O'Shea, Thomas Building	9 Howley St	Peabody	c 1916
PEA.246	Peabody Leather Company	26 Howley St	Peabody	c 1914
PEA.911	Johnson Street Bridge over B&M Railroad	Johnson St	Peabody	1987
PEA.905	Johnson Street Extension Bridge	Johnson St Extension	Peabody	1937
PEA.230	Thomas, J. B. Hospital	15 King St	Peabody	c 1907
PEA.801	Old Flint Burial Ground	1 LeBlanc Dr	Peabody	1798
PEA.292		2 Little's Ln	Peabody	c 1915
PEA.291		3 Little's Ln	Peabody	c 1915
PEA.293		4 Little's Ln	Peabody	c 1915
PEA.290	Anshe Sfard Synagogue	5 Little's Ln	Peabody	c 1897
PEA.294		6 Little's Ln	Peabody	c 1915

Inv. No.	Property Name	Street	Town	Year
PEA.295	Little, G. H. House	8 Little's Ln	Peabody	c 1860
PEA.289	Osgood, M. E. House	9 Little's Ln	Peabody	c 1860
PEA.288	Saint Stanislaus Society	11 Little's Ln	Peabody	c 1923
PEA.287		13 Little's Ln	Peabody	c 1850
PEA.296		16 Little's Ln	Peabody	c 1900
PEA.802	Jacobs Cemetery	Lowell St	Peabody	c 1775
PEA.24	Dustin, Jonathan Block	10 Lowell St	Peabody	c 1844
PEA.36	White and Fiske's Boot and Shoe Store	16-20 Lowell St	Peabody	1845
PEA.3	Peabody City Hall	24 Lowell St	Peabody	1883
PEA.39	Dustin Block - Lalime's Garage	27A Lowell St	Peabody	c 1830
PEA.85		28 Lowell St	Peabody	c 1844
PEA.38	Korn Building	29-35 Lowell St	Peabody	1916
PEA.37	Porter, Raymond E. Building	40 Lowell St	Peabody	c 1919
PEA.23	Peabody Central Fire Station	41 Lowell St	Peabody	1873
PEA.251		42 Lowell St	Peabody	1967
PEA.252	Stimpson, Thomas M. House	44 Lowell St	Peabody	c 1870
PEA.253	Stimpson, Thomas M. House	46 Lowell St	Peabody	c 1861
PEA.259	Health Department Office	47 Lowell St	Peabody	c 1924
PEA.254	Smith, Richard House	48 Lowell St	Peabody	c 1828
PEA.260	Peabody City Hall Annex	49 Lowell St	Peabody	
PEA.255		50 Lowell St	Peabody	c 1938
PEA.44	Saint Paul Episcopal Church	58 Lowell St	Peabody	r 1879
PEA.86	Symonds, Samuel House	62 Lowell St	Peabody	c 1852
PEA.87	Chernokrulyk, Andri House	64 Lowell St	Peabody	c 1900
PEA.88	Tilton, G. P. House	70 Lowell St	Peabody	c 1849
PEA.89	Sawitsky, Matislaw House	72 Lowell St	Peabody	c 1922
PEA.153	Poor, N. H. and Company	73 Lowell St	Peabody	c 1875
PEA.90		76 Lowell St	Peabody	c 1875
PEA.91	Brown, James Jr. House	76 Lowell St	Peabody	c 1830
PEA.92	Smith, Jesse H. House	82 Lowell St	Peabody	c 1887
PEA.154	Potter, G. W. House	102 Lowell St	Peabody	r 1875
PEA.155	Stimpson, William House	105 Lowell St	Peabody	r 1858
PEA.157	Phillips, Alonzo House	109 Lowell St	Peabody	c 1869
PEA.159	Butman, Joshua M. House	117 Lowell St	Peabody	1871
PEA.160	Robert, Moses H. House	127 Lowell St	Peabody	c 1860
PEA.161	Munroe, Isaac House	128 Lowell St	Peabody	r 1886
PEA.162	Parsons, Charles House	130 Lowell St	Peabody	r 1865
PEA.163		132 Lowell St	Peabody	c 1832

Inv. No.	Property Name	Street	Town	Year
PEA.164	Southwick Strauss Tannery	145 Lowell St	Peabody	c 1867
PEA.165	Southwick, John House	151 Lowell St	Peabody	c 1750
PEA.166	Poore, Charles M. House	155 Lowell St	Peabody	1895
PEA.167	Osgood, A. D. House	173 Lowell St	Peabody	c 1897
PEA.4		191 Lowell St	Peabody	1780
PEA.9		193 Lowell St	Peabody	c 1810
PEA.10	King, Samuel W. House	196 Lowell St	Peabody	c 1897
PEA.11	King, S. P. C. House	197 Lowell St	Peabody	c 1856
PEA.12		200 Lowell St	Peabody	c 1845
PEA.14	King House	205 Lowell St	Peabody	c 1820
PEA.13	Nichols, J. House	208 Lowell St	Peabody	c 1872
PEA.15	Winchester, C. F. House	210 Lowell St	Peabody	c 1872
PEA.16	Blaney, Stephen B. House	216 Lowell St	Peabody	c 1872
PEA.17		216R Lowell St	Peabody	c 1860
PEA.18	Shaw, Joseph House	220 Lowell St	Peabody	c 1807
PEA.19	King House	239 Lowell St	Peabody	c 1760
PEA.6	King, Samuel House	240 Lowell St	Peabody	1846
PEA.21	King House	241 Lowell St	Peabody	c 1780
PEA.249	Shaw, William House	330 Lowell St	Peabody	c 1700
PEA.169	Proctor, John House	348 Lowell St	Peabody	c 1700
PEA.170	Procter, A. C. House	373 Lowell St	Peabody	c 1850
PEA.171	Needham - Gould - Walcott House	515 Lowell St	Peabody	c 1705
PEA.172	Larrabee, James House	572 Lowell St	Peabody	c 1852
PEA.173	Taylor, B. H. House	577 Lowell St	Peabody	c 1832
PEA.174	Flint House	629 Lowell St	Peabody	c 1770
PEA.175		722 Lowell St	Peabody	c 1832
PEA.177	Upton, John House	735 Lowell St	Peabody	c 1660
PEA.158	Robinson, Archelaus House	2 Lowell Street Ct	Peabody	c 1858
PEA.371	Brown, Samuel School	200 Lynn St	Peabody	1911
PEA.354	Raddin, A. K. House	138 Lynnfield St	Peabody	1832
PEA.229	Craig Print Works - Vaughn Machine Company	139 Lynnfield St	Peabody	c 1864
PEA.228	Vaughn Machine Company - Corwin Machine Company	143 Lynnfield St	Peabody	c 1901
PEA.800	South Burying Ground, Old	Main St	Peabody	c 1666
PEA.336	Allen Block Addition	2 Main St	Peabody	c 1857
PEA.34	O'Shea Building No. 2	9 Main St	Peabody	c 1906
PEA.29	South Danvers Savings Bank	10 Main St	Peabody	1893
PEA.33	O'Shea Building No. 1	17 Main St	Peabody	1904

Inv. No.	Property Name	Street	Town	Year
PEA.348	Essex Club Block	17 Main St	Peabody	c 1882
PEA.30	Goldstein, Morris Block	24 Main St	Peabody	c 1924
PEA.31		30 Main St	Peabody	1935
PEA.347	First National Grocery Store	31 Main St	Peabody	c 1940
PEA.32	Peabody Cooperative Bank	32 Main St	Peabody	1952
PEA.335	Karelitz, Louis Building	34 Main St	Peabody	c 1923
PEA.334	Upton, E. S. House	40 Main St	Peabody	c 1850
PEA.346	Standard Hardware Building	41 Main St	Peabody	c 1928
PEA.345	Strand Theatre	43 Main St	Peabody	c 1912
PEA.344	Dobrotinar Building No. 1	45 Main St	Peabody	c 1915
PEA.333	Dodge, Gen. Grenville M. House	52 Main St	Peabody	c 1835
PEA.343	Sutton, Ebenezer House	55 Main St	Peabody	c 1854
PEA.324	Hickey - Osborne Block	60 Main St	Peabody	c 1798
PEA.342	French Block	61 Main St	Peabody	c 1915
PEA.341	Little, William House - Savoy Chambers	65 Main St	Peabody	c 1805
PEA.332		68-72 Main St	Peabody	c 1965
PEA.340	Symonds Apartments	77 Main St	Peabody	1928
PEA.262	Sutton Block	78 Main St	Peabody	1859
PEA.1	Peabody Institute Library	82 Main St	Peabody	1854
PEA.300	Daniels, David House	85 Main St	Peabody	c 1840
PEA.338	Washington Apartments	85 Main St	Peabody	c 1924
PEA.339	Texaco Gas Station	85 Main St	Peabody	c 1938
PEA.215	Wallis, Dennis House	88 Main St	Peabody	c 1810
PEA.329	Knights of Columbus Leo Council 508	96 Main St	Peabody	1950
PEA.351	Wheeler, B. S. House	98 Main St	Peabody	c 1857
PEA.325	Union Store - Bushby's and Company Grocery Store	100 Main St	Peabody	1830
PEA.326	Proctor, T. E. House	106 Main St	Peabody	c 1845
PEA.313	Shillaber, Ebenezer House	109 Main St	Peabody	1845
PEA.314	Osborn, Joseph Jr. House	111 Main St	Peabody	1795
PEA.327	Elliot, Lewis W. House	112 Main St	Peabody	1862
PEA.328	Elliot, Isaac B. House	116 Main St	Peabody	c 1862
PEA.337	Osborne, S. House	120 Main St	Peabody	r 1845
PEA.250	Danvers Bank	125 Main St	Peabody	c 1825
PEA.216	Seccombe, Dea. Joseph House	149 Main St	Peabody	c 1737
PEA.217	Jacobs, W. M. House	150 Main St	Peabody	c 1860
PEA.218	Morrill Leather Company	166 Main St	Peabody	c 1887
PEA.235	Second Congregational Church	12 Maple St	Peabody	r 1880

Inv. No.	Property Name	Street	Town	Year
PEA.367	Saint Thomas the Apostle Roman Catholic Rectory	1 Margin St	Peabody	1934
PEA.359	Saint Thomas the Apostle Roman Catholic Convent	3 Margin St	Peabody	c 1951
PEA.358	Saint Thomas the Apostle Roman Catholic School	5 Margin St	Peabody	1951
PEA.231	Gardner, Capt. John House	67 Margin St	Peabody	c 1805
PEA.232	Bliss, Harry A. House	77 Margin St	Peabody	c 1917
PEA.909	North Central Street Pedestrian Bridge over MBTA	North Central St	Peabody	1929
PEA.197	Newell - Knowlton Degreasing Firm	42 North Central St	Peabody	c 1884
PEA.373	Saint Vasilios Greek Orthodox Church	7 Paleologos St	Peabody	1917
PEA.298	Corey, Augustus H. House	1 Park Sq	Peabody	c 1830
PEA.299		2 Park Sq	Peabody	c 1880
PEA.273	Corey, Augustus House	3 Park Sq	Peabody	c 1840
PEA.269	Clement, John J. House	5 Park St	Peabody	c 1860
PEA.277	Teague, Charles E. House	6 Park St	Peabody	c 1890
PEA.274	First Unitarian Church	7 Park St	Peabody	c 1826
PEA.278	Osborn, George F. House	8 Park St	Peabody	c 1780
PEA.275	Dodge, Charles H. House	9 Park St	Peabody	c 1790
PEA.279		10 Park St	Peabody	c 1939
PEA.276	Sanger, Augustus H. House	11 Park St	Peabody	c 1800
PEA.280	Sanger, George J. House	12 Park St	Peabody	c 1800
PEA.281		14 Park St	Peabody	c 1930
PEA.282	Osborne, G. E. House	16 Park St	Peabody	c 1860
PEA.283	Elliot, T. B. House	18-20 Park St	Peabody	c 1799
PEA.901	Soldiers and Sailors Civil War Monument	Peabody Sq	Peabody	1881
PEA.35	Peabody District Courthouse, New	2 Peabody Sq	Peabody	1977
PEA.28	Allen Block	14-28 1/2 Peabody Sq	Peabody	1830
PEA.26	Warren National Bank	17 Peabody Sq	Peabody	1854
PEA.84	Dorset, H. P. House	2 Perkins St	Peabody	c 1890
PEA.240	Proctor, Aaron C. Cider Mill	2 Prospect St	Peabody	c 1850
PEA.241		52 Prospect St	Peabody	c 1816
PEA.185	Lawrence, A. C. Water River Works	58 Pulaski St	Peabody	c 1906
PEA.186	Lawrence, A. C. Water River Plant	58 Pulaski St	Peabody	c 1906
PEA.187		60 Pulaski St	Peabody	c 1852
PEA.903	Route 114 Bridge	Route 114	Peabody	c 1938
PEA.908	Route 114 Bridge over B & M Railroad	Rt 114	Peabody	1969
PEA.900	Route 128 Bridge over Unnamed Access Road	Rt 128	Peabody	1958

Inv. No.	Property Name	Street	Town	Year
PEA.912	Route 128 Bridge over Waters River	Rt 128	Peabody	1940
PEA.374	Temple B'nai Brith Cemetery Chapel	37 Sabino Farm Rd	Peabody	1957
PEA.803	Temple B'nai Brith Cemetery	37 Sabino Farm Rd	Peabody	1925
PEA.93	First Baptist Society Parsonage	5 School St	Peabody	c 1894
PEA.94	Barnes, George F. House	7 School St	Peabody	1895
PEA.95	Basford, A. P. House	9-11 School St	Peabody	1888
PEA.96	Lee, W. T. House	13 School St	Peabody	c 1887
PEA.97	Basford, Alden P. House	15 School St	Peabody	c 1893
PEA.98	Drowne, Isaac House	19 School St	Peabody	1868
PEA.320	Methodist Parsonage	6 Sewall St	Peabody	1861
PEA.114	Proctor, Abel House	7 Sewall St	Peabody	c 1830
PEA.321	Poland, Oliver House	8 Sewall St	Peabody	c 1857
PEA.322	Shove, Jonathan House	13 Sewall St	Peabody	1831
PEA.323	Peasley, Jeremiah House	15 Sewall St	Peabody	1832
PEA.113	Wallis School	17 Sewall St	Peabody	c 1869
PEA.297		22 Spring St	Peabody	c 1800
PEA.263	Simonds, N. House	6 Summer St	Peabody	c 1850
PEA.264	McNeil, A. L. House	8 Summer St	Peabody	c 1905
PEA.270		9 Summer St	Peabody	c 1850
PEA.265	Bomey, N. D. House	10 Summer St	Peabody	c 1850
PEA.271	First Baptist Church	11 Summer St	Peabody	1843
PEA.266		12 Summer St	Peabody	c 1850
PEA.267		14 Summer St	Peabody	c 1900
PEA.272		15 Summer St	Peabody	r 1810
PEA.268	McGum, John H. House	16 Summer St	Peabody	c 1900
PEA.331	Preston - Hammond House	9 Wallis St	Peabody	c 1840
PEA.234	Budgell, W. J. and Son	47 Walnut St	Peabody	
PEA.122	Willey, C. G. House	6 Washington Pl	Peabody	c 1856
PEA.123	Willey, C. G. House	8 Washington Pl	Peabody	r 1856
PEA.124	Hill, S. R. House	10 Washington Pl	Peabody	c 1856
PEA.125	Hill, B. D. House	14 Washington Pl	Peabody	c 1856
PEA.126	Torr, H. House	15 Washington Pl	Peabody	c 1872
PEA.127	Hill, E. D. House	15 Washington Pl	Peabody	c 1852
PEA.106	Thomas, Elmer B. House	2-4 Washington St	Peabody	r 1899
PEA.107	Proctor, John House	9 Washington St	Peabody	c 1852
PEA.108	Saint Paul's Church	12 Washington St	Peabody	c 1914
PEA.301	Dote and Osgeed Carriage Factory	13 Washington St	Peabody	1822
PEA.109		16 Washington St	Peabody	c 1852

Inv. No.	Property Name	Street	Town	Year
PEA.110	Pindar, J. House	17 Washington St	Peabody	c 1872
PEA.302	Dole, William T. House	19 Washington St	Peabody	1847
PEA.303	Dole, Charles A. House	23 Washington St	Peabody	c 1853
PEA.902	Lexington Monument	26 Washington St	Peabody	1835
PEA.111	Danials, Thorndike A. House	28 Washington St	Peabody	r 1840
PEA.304		32 Washington St	Peabody	c 1842
PEA.112	Osborn, Dennison W. House	33 Washington St	Peabody	c 1875
PEA.2	Foster, Gen. Gideon House	35 Washington St	Peabody	1810
PEA.248	Poor, J. R. House	36 Washington St	Peabody	c 1851
PEA.305		38 Washington St	Peabody	c 1923
PEA.115	Brown, Rufus House	39 Washington St	Peabody	c 1853
PEA.116	Clark, Aaron F. House	40 Washington St	Peabody	c 1850
PEA.117	Stanley, Miles O. House	41 Washington St	Peabody	c 1859
PEA.306	Merrill, Alex B. House	42 Washington St	Peabody	1876
PEA.307	Forness, Edward House	44 Washington St	Peabody	c 1844
PEA.308	Elwell, David House	45 Washington St	Peabody	c 1852
PEA.118	Currier, C. S. House	47 Washington St	Peabody	c 1856
PEA.119	Brown, C. E. House	48 Washington St	Peabody	c 1852
PEA.120		49 Washington St	Peabody	c 1832
PEA.309	Daniels House	52 Washington St	Peabody	1850
PEA.310	Giddings, Joshua House	56 Washington St	Peabody	1854
PEA.311	Lowe, Caleb House	57 Washington St	Peabody	1852
PEA.312	Osborne, Benjamin C. House	58 Washington St	Peabody	1840
PEA.121	Bancroft, A. House	80 Washington St	Peabody	c 1852
PEA.128	Foster, William House	119 Washington St	Peabody	r 1852
PEA.129	Thompson, C. House	129 Washington St	Peabody	c 1852
PEA.131	Wiggins, Annette L. House	132 Washington St	Peabody	c 1897
PEA.130	Osborn, Douglas House	133 Washington St	Peabody	r 1852
PEA.258	Peabody Water Works	167 Washington St	Peabody	1881
PEA.132	Peabody, George House	205 Washington St	Peabody	c 1793
PEA.904	Waters River Railroad Bridge	Waters River	Peabody	1945
PEA.242	Lawrence Leather Company	50 Webster St	Peabody	c 1905
PEA.906	Seven Men's Bound Historical Marker	West Livingston Dr	Peabody	r 1830

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SECTION 6

Section 6
Corrective Actions and Additional Implementation Measures

2021 MSGP Part 5

Describe the procedures for taking corrective action and/or AIM response in compliance with Part 5 of the 2021 MSGP. Corrective Actions are applicable to all facilities and sectors. AIM response procedures are only applicable to facilities with benchmark monitoring.

6.1 Corrective Actions

There are two types of Corrective Actions.

- A SWPPP review and revision to ensure effluent limits are met is a required corrective action when there is an unauthorized release or discharge, the discharge violates a numeric effluent limit, the current stormwater controls at the facility are negatively affecting the water quality of the receiving waters, a control measure was never installed or was installed improperly, or when there is evidence of stormwater pollution in the facility discharge (color, odor, solids, foam). Refer to Section 5.1.1 of the 2021 MSGP.
- A SWPPP review to determine modification is needed when there is a change in design, operation, or maintenance at the facility that significantly impacts stormwater. If there is a change in the quantity of stormwater (e.g., increase of impervious area), change in potential pollutants, or change in control structures, the SWPPP should be reviewed for necessary revisions. Refer to Section 5.1.2 of the 2021 MSGP.

6.2 Additional Implementation Measures

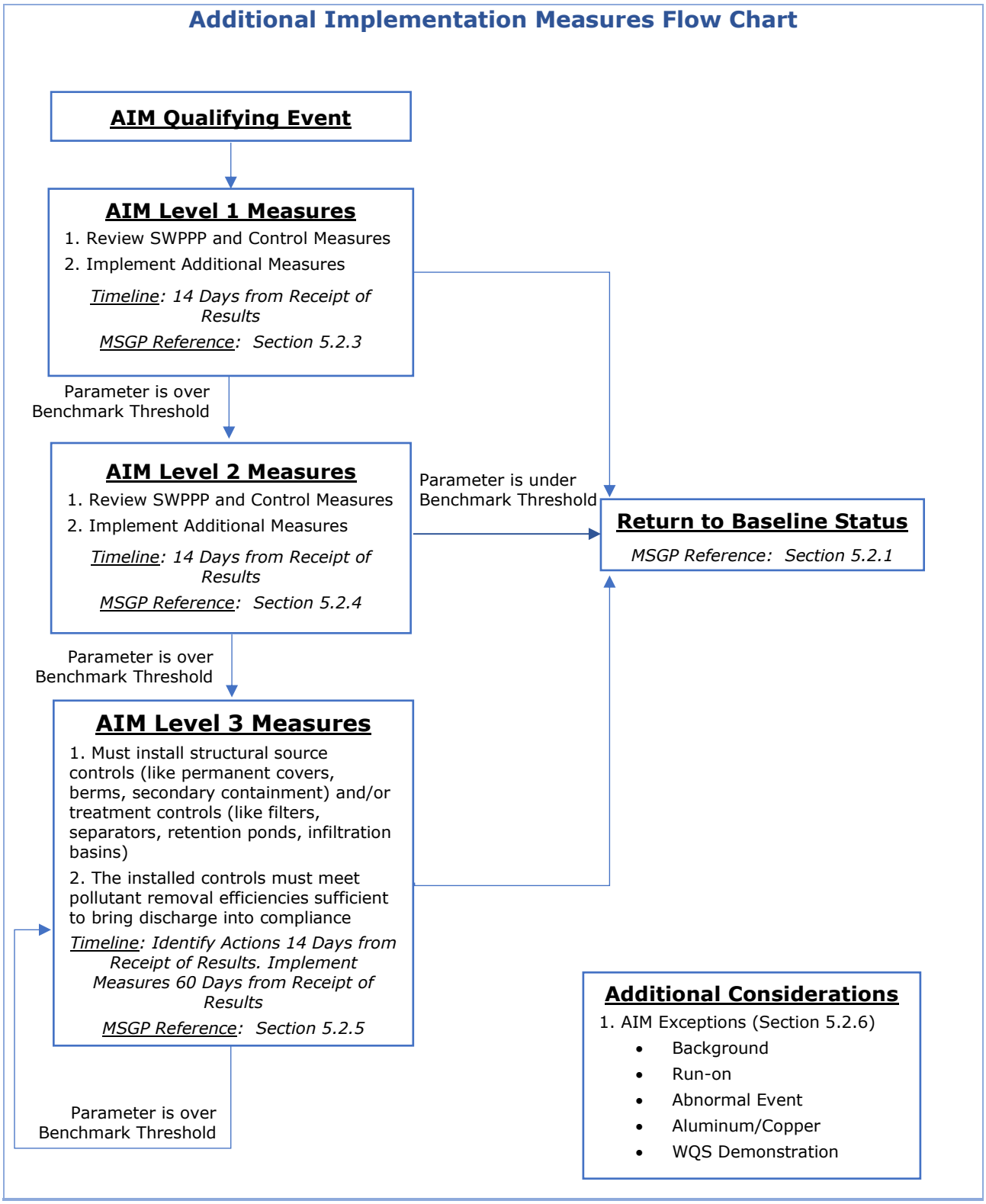
There are three levels of Additional Implementation Measures ("AIM"). The following qualified events will trigger the AIM response process.

- The four quarterly annual average for a benchmark parameter is exceeded; or
- A single sum, or the sum of any results within the sampling year, exceeds the benchmark threshold by more than four times the value.

After a qualifying event, the facility will enter AIM Level 1. If the Facility returns to compliance after implementing AIM Level 1 measures, the Facility returns to baseline status. If the Facility does not return to compliance after implementing AIM Level 1 measures, the Facility will be elevated to AIM Level 2. If the Facility returns to compliance after implementing AIM Level 2 measures, the Facility returns to baseline status. If the Facility does not return to compliance, then the Facility is elevated to AIM Level 3. The Facility will remain at AIM Level 3 until it returns to compliance with benchmark monitoring.

The deadline to complete AIM Level 1 and 2 related modifications is 14 days after receipt of laboratory results. If modifications cannot be completed within 14 days, the Facility must document why it is infeasible and complete modifications within 45 days. For AIM Level 3, the Facility must determine appropriate controls to install within 14 days and complete the installation within 60 days. The Facility may request an extension from EPA if the installations cannot feasibly be completed within 60 days. The flow chart on the next page illustrates this process visually.

Additional Implementation Measures Flow Chart



6.3 Documentation

The MSGP requires the following documentation be retained relative to corrective actions or AIMs taken.

6.3.1 24-Hours

The Permittee will document the existence of any of the Corrective Action or AIM conditions within 24 hours of becoming aware of such condition. This documentation is not required to be submitted to the EPA, unless specifically required or requested. However, findings must be summarized in the annual report per Part 7.4 of the MSGP. The following items will be included:

- Description of the condition or event triggering the need for corrective action review and/or AIM response. For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to waters of United States, through stormwater or otherwise;
- Date the condition/triggering event was identified;
- Description of immediate actions taken to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases; and
- A statement signed and certified in accordance with Appendix B, Subsection 11 of the MSGP.

6.3.2 14-Days

The Permittee must also document the corrective actions and/or AIM responses taken or will take within 14 days from the time of discovery of any of those conditions/triggering events. The Permittee will provide the dates when each corrective action and/or AIM response was initiated and completed (or expect to complete). If infeasible to complete the necessary corrective actions and/or AIM responses within the specified timeframe, the Permittee must document the rationale and schedule for installing the controls and making them operational as soon as practicable after the specified timeframe. If the Permittee notified EPA regarding an allowed extension of the specified timeframe, the Permittee will document the rationale for an extension. Any additional information and/or rationale that is required and/or applicable to the specified corrective action and/or AIM response in Part 5 will be included. Facilities are not required to submit this documentation to EPA, unless specifically required or requested to do so. However, findings must be summarized in the annual report per Part 7.4 of the MSGP.

Corrective Action and AIM Documentation forms (Form 4 and Form 5) are included in Appendix E.

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SECTION 7

Section 7
Reporting

Electronic implementation of the Multi-Sector General Permit (MSGP) is performed utilizing the EPA's Central Data Exchange (CDX) NeT-MSGP and NetDMR platforms. Each applicable facility must submit all required information via EPA's electronic NPDES eReporting tool (NeT). You can both prepare and submit required information in NeT-MSGP using specific forms for the following reports:

- Notice of Intent
- Change Notice of Intent
- No Exposure Certification
- Notice of Termination
- Annual Report

All monitoring data is submitted to the EPA utilizing the NetDMR platform.

7.1 Monitoring Data

Each Facility must submit all stormwater discharge monitoring data collected to EPA using Net-DMR no later than 30 days after complete laboratory results for all monitoring discharge points for the reporting period have been received. All monitoring requirements (i.e., parameters required to be monitored and sample frequency) will be pre-populated on the electronic Discharge Monitoring Report (DMR) form based on the information provided with the NOI form in NeT-MSGP. Accordingly, facilities must certify the following changes to the monitoring frequency to EPA by submitting a Change NOI in NeT-MSGP, unless EPA has completed the development of planned features in the electronic systems to process submitted monitoring results to automatically turn monitoring on/off as applicable, which will trigger changes to monitoring requirements in Net-DMR:

- All benchmark monitoring requirements have been fulfilled for the permit term;
- All impaired waters monitoring requirements have been fulfilled for the permit term;
- Benchmark monitoring requirements no longer apply because the EPA Regional Office has concurred with the Permittee's assessment that run-on from a neighboring source is the cause of the exceedance;
- Benchmark and/or impaired monitoring requirements no longer apply because the facility is inactive and unstaffed;
- Benchmark and/or impaired monitoring requirements now apply because the facility has changed from inactive and unstaffed to active and staffed;
- For Sector G2 only: Discharges from waste rock and overburden piles have exceeded benchmark thresholds;
- A numeric effluent limitation guideline has been exceeded; and
- A numeric effluent limitation guideline exceedance is back in compliance.

7.1.1 Discontinue Submittal of Monitoring Data

Once a facility has completely fulfilled applicable monitoring requirements, the entity is no longer required to report monitoring results using Net-DMR. If monitoring requirements have only been partially fulfilled benchmark monitoring and/or impaired waters monitoring requirements (e.g., four quarterly average is below the benchmark for some, but not all, parameters; a facility did not detect

some, but not all, impairment pollutants), a facility must continue to report results in Net-DMR for the remaining monitoring requirements.

7.1.2 Deadlines

For both indicator and benchmark monitoring (as applicable), facilities are required to submit sampling results to EPA no later than 30 days after receiving complete laboratory results for all monitored discharge points for each monitoring period that sample collection is required. If samples are collected during multiple storm events in a single quarter (e.g., due to adverse weather conditions, climates with irregular stormwater discharges, or areas subject to snow), sampling results must be submitted for each storm event to EPA within 30 days of receiving all laboratory results for the event. Or, for any monitored discharge points that did not have a discharge within the reporting period, using Net-DMR, facilities must report that no discharges occurred for that discharge point no later than 30 days after the end of the reporting period.

7.1.3 State and Local Reporting of Monitoring Data

The results of any monitoring required by this permit that identify violations of any effluent limits or benchmarks for any parameter for which monitoring is required shall be sent to the appropriate Regional Office of MassDEP (attention: Bureau of Air and Waste). In addition, any follow-up monitoring and a description of the corrective actions required and undertaken to meet the effluent limits or benchmarks shall be sent to the appropriate MassDEP Regional Office.

7.2 Annual Reporting

Facilities with MSGP coverage are required to submit an Annual Report to EPA via NeT-MSGP by ***January 30th*** for each year of permit coverage containing information generated from the past calendar year. The annual report must include the following information:

- A summary of the past year's routine facility inspection documentation required (Part 3.1.6);
- A summary of the past year's visual assessment documentation; and
- A summary of the past year's corrective action and any required AIM documentation (see Part 5.3). If the Permittee has not completed required corrective action or AIM responses at the time of annual report submittal, the report must describe the status of any outstanding corrective action(s) or AIM responses. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that the Permittee is in compliance with the permit.

The Annual Report must also include a statement, signed and certified in accordance with Appendix B, Subsection 11 of the MSGP.

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SECTION 8

Section 8
SWPPP Certification

2021 MSGP Part 6.2.7

The following certification statement must be signed and dated by a person who meets the requirements of Appendix B, Subsection 11.A, of the 2021 MSGP.

Note: this certification must be re-signed in the event of a SWPPP modification in response to a Part 5.1 trigger for corrective action or a Part 5.2 AIM triggering event.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Steve Melloni	Area Residuals Manager
Name	**Title**
Steve W. Melloni	09/01/2021
Signature	**Date**

This SWPPP has been prepared in accordance with good engineering practices and to industry standards. The SWPPP has be developed by the qualified person below as defined by Appendix A of the MSGP.

Emma Larkin	Project Environmental Scientist
Name	**Title**
Emma Larkin	8/20/2021
Signature	**Date**

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SECTION 9

Section 9
SWPPP Modifications

2021 MSGP Part 6.3

Your SWPPP is a "living" document and is required to be modified and updated, as necessary, in response to corrective actions and deadlines. See Part 5 of the 2021 MSGP.

- If you need to modify the SWPPP in response to a corrective action required by Part 5.1 or AIM required by Part 5.2 of the 2021 MSGP, then the certification statement in section 7 of this SWPPP template must be re-signed in accordance with 2021 MSGP Appendix B, Subsection 11.A.
- For any other SWPPP modification, you should keep a log with a description of the modification, the name of the person making it, and the date and signature of that person. See 2021 MSGP Appendix B, Subsection 11.C.

SWPPP Modification	Name	Date	Does Modification Require Re-Signing SWPPP?
Minor clarification of bullets in Section 3.1.1, Section 3.1.2, and Section 4.1	Emma Larkin	9/1/2021	No

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SECTION 10

Section 10
Plan Availability

2021 MSGP Part 6.4

Your current SWPPP (with the exception of any confidential business or restricted information) must be made available to the public. You have three options to comply with the public availability requirements for the SWPPP: attaching your SWPPP to your NOI; providing a URL of your SWPPP in your NOI; or providing the following SWPPP information in your NOI:

- On-site industrial activities exposed to stormwater, including potential spill and leak areas;
- Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges;
- Stormwater control measures you employ to comply with the non-numeric technology-based effluent limits and any other measures taken to comply with the water quality based effluent limits; and
- Schedule for good housekeeping and maintenance and schedule for all inspections.

The Permittee has provided the required SWPPP information in the NOI. Should a member of the public or regulatory agency request a copy of the SWPPP from the Permittee's management, an electronic (.pdf) version of this plan will be provided.

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APPENDIX A

Appendix A
Site Figures

Legend

Site Boundary

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Based on USGS Topographic Map for Salen, MA Revised 1985. [Site Quad] Reading, MA Revised 1987. Contour Interval Equals 3m. Circles indicate 500-foot and half-mile radii

1:24,000

0 1,000 2,000

Feet

N

FIGURE 1
SITE LOCATION

Stormwater Pollution Prevention Plan
Peabody Ash Monofill
Farm Avenue
Peabody, Massachusetts

June 2021

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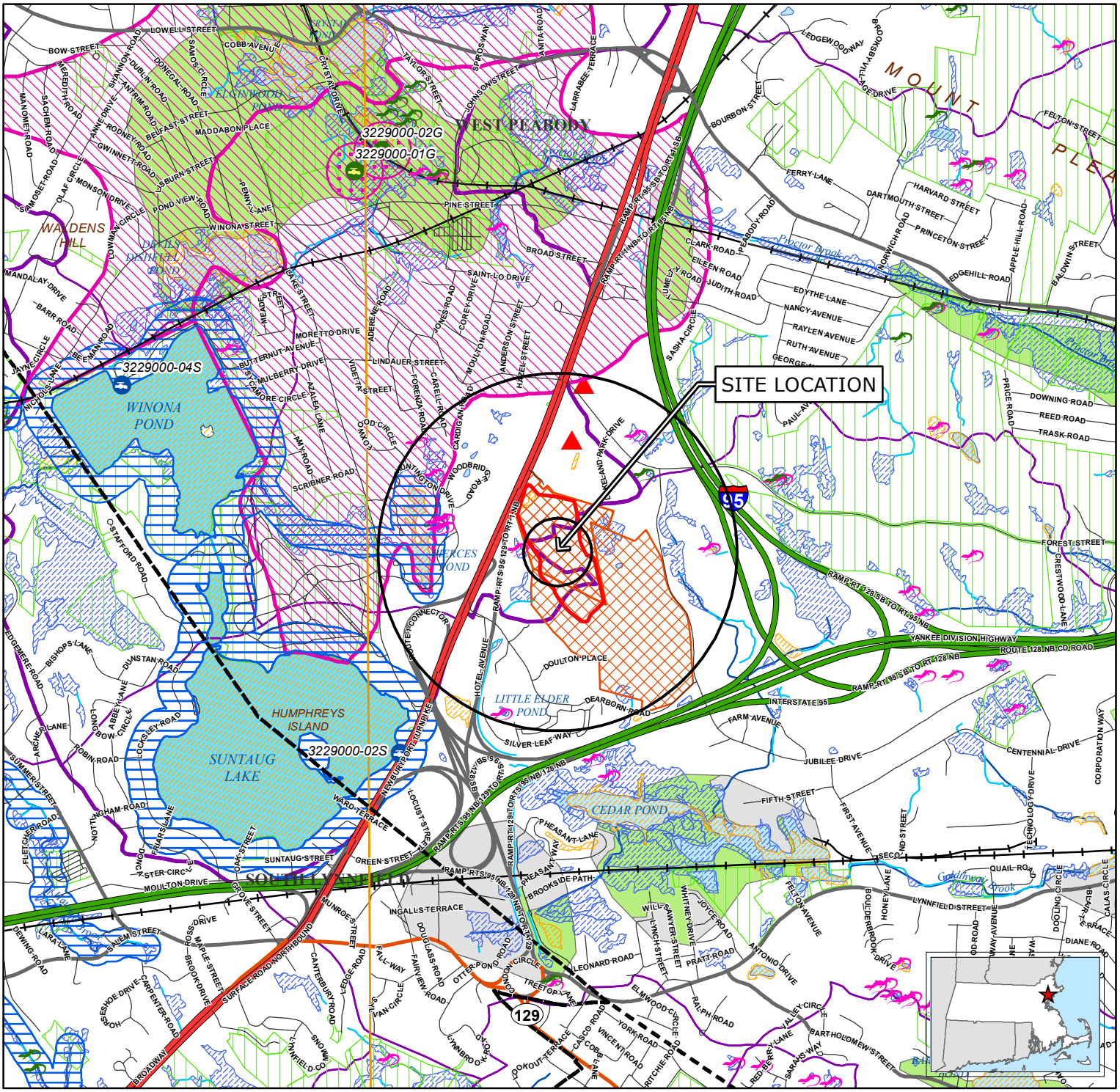

Legend

- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Non-Landfill Solid Waste Sites
- Proposed Well
- Emergency Surface Water
- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Highway
- Major Road - Collector
- Minor Street or Road
- Aquaducts
- Hydrologic Connections
- Stream/Intermittent Stream
- Powerline
- Pipeline
- Track or Trail
- Trains
- Public Surface Water Supply Protection Area (Zone A)
- DEP Approved Wellhead Protection Area (Zone I)
- DEP Approved Wellhead Protection Area (Zone II)
- DEP Interim Wellhead Protection Area (IWPA)
- Protected and Recreational Open Space
- Solid Waste Landfill
- Area of Critical Environmental Concern (ACEC)
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- EPA Designated Sole Source Aquifer
- Major Drainage Basin
- Sub Drainage Basin
- MassDEP Open Water
- MassDEP Inland Wetlands
- MassDEP Coastal Wetlands
- MassDEP Not Interpreted Wetlands
- Public Surface Water Supply (PSWS)
- Water Bodies
- Non-Potential Drinking Water Source Area - High Yield
- Non-Potential Drinking Water Source Area - Medium Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- County Boundary
- Town Boundary
- USGS Quadrangle Sheet Boundary
- Site Boundary

FIGURE 2
PRIORITY RESOURCES

Stormwater Pollution Prevention Plan
Peabody Ash Monofill
Farm Avenue
Peabody, Massachusetts

Data source: Bureau of Geographic Information (MassGIS), Commonwealth of Massachusetts, Executive Office of Technology
Circles indicate 500-foot and half-mile radii.
Data valid as of June 2021.

June 2021

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C-0810

Legend

Site Boundary

1:6,000

0 250 500

Feet

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Based on MassGIS Color Orthophotography (2019)

FIGURE 3
ORTHOPHOTOGRAPH

Stormwater Pollution Prevention Plan
Peabody Ash Monofill
Farm Avenue
Peabody, Massachusetts

June 2021

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C-0810

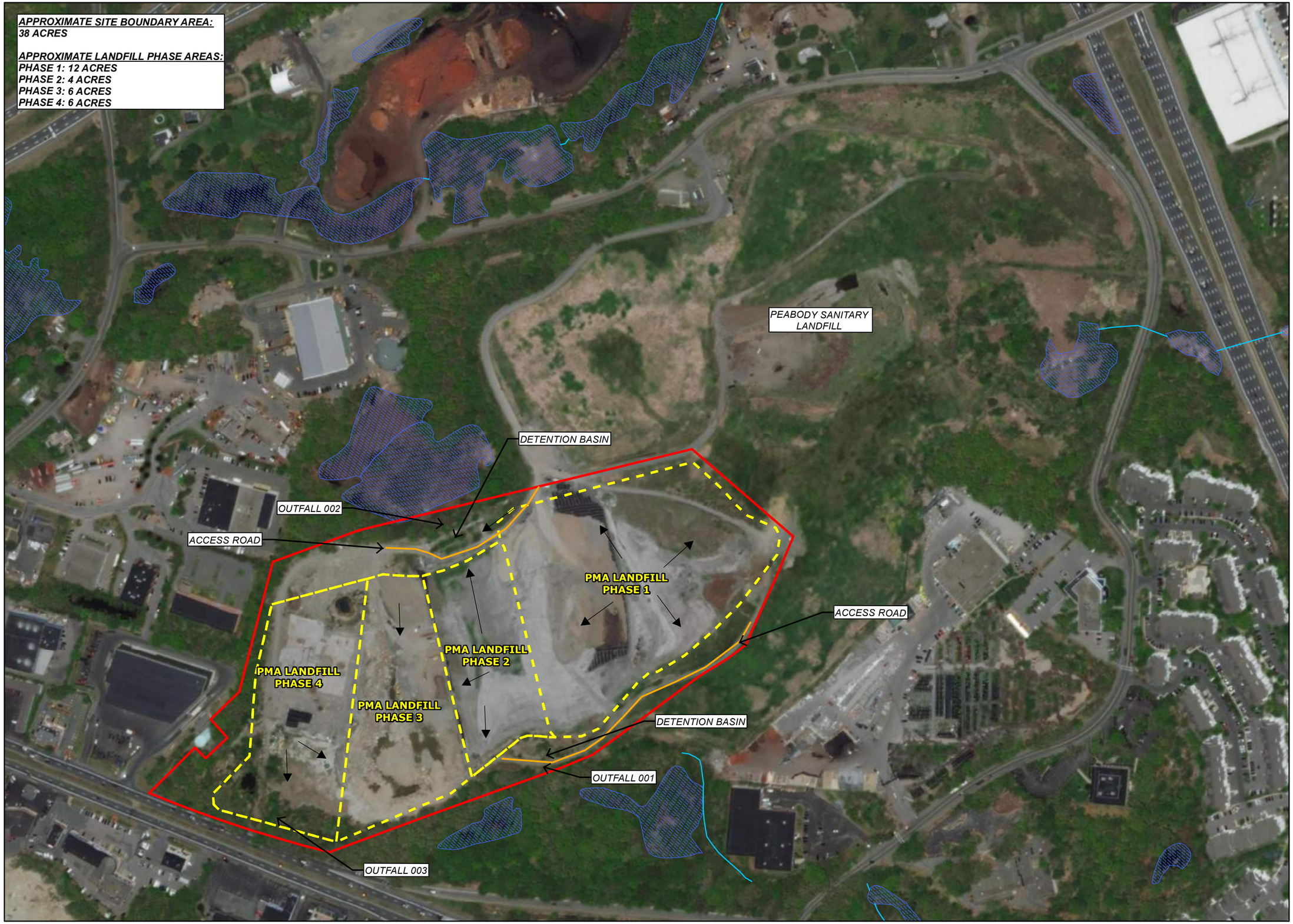

FIGURE 4
SITE PLAN

LEGEND

- Flow Direction
- Access Roads
- Hydrologic Connections
- MassDEP Inland Wetlands
- PMA Landfills Phases
- Site Boundary

LOCUS MAP

0 150 300
Feet
1:3,600

NOTES

1. Based on MassGIS Color Orthophotography (2019)
2. Phase 1 and Phase 2 are the active areas of the landfill.

Stormwater Pollution Prevention Plan
Peabody Ash Monofill
Farm Avenue
Peabody, Massachusetts

August 2021

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APPENDIX B

Appendix B
Quarterly Visual Assessment Forms

FORM 1 - QUARTERLY VISUAL ASSESSMENT LOG

Name of Sampler (s): _____
Signature of Sampler (s): _____

Visual Assessment Period (Check One):
☐ 1st Quarter (January through March)
☐ 2nd Quarter (April through June)
☐ 3rd Quarter (July through September)
☐ 4th Quarter (October through December)

Weather conditions during sampling: _____

Nature of discharge: _____Runoff; _____Snowmelt; _____Other
If other explain: _____

Sample taken within first 30 minutes of Discharge: _____Yes; _____No
If no explain why: _____

Quality of sample:

	Outfall #001
Date of Sample	
Time of Sample	
Date of Assessment	
Time of Assessment	
Color	
Odor	
Clarity	
Floating Solids	
Settled Solids	
Suspended Solids	
Foam	
Oil Sheen	
Other	

Probable sources of any observed stormwater contamination: _____
_____
_____

Any corrective action required as a result of quarterly visual assessment: ___Yes; ___No
If yes explain: _____
_____
_____

Name of Assessor (s): _____
Signature of Assessor (s): _____

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APPENDIX C

Appendix C
Facility Inspection Forms

FORM 2 –ROUTINE INSPECTION LOG

Date of Inspection: _____ **Time of Inspection:** _____
Name of Inspector (s): _____
Signature of Inspector (s): _____

Weather conditions during inspection: _____

Any discharges occurring at time of inspection: ☐ Yes ☐ No
If Yes explain: _____

Any previously unidentified discharges of pollutants from the site: ☐ Yes ☐ No
If Yes explain: _____

Any control measures needing maintenance or repairs: ☐ Yes ☐ No
If Yes explain: _____

Any failed control measures that need replacement: ☐ Yes ☐ No
If Yes explain: _____

Any incidents of Noncompliance observed: ☐ Yes ☐ No
If Yes explain: _____

Any additional control measures needed to comply with the permit requirements: ☐ Yes ☐ No
If Yes explain: _____

In and around catch basin and outfalls		
Catch basin / Outfalls free of debris	☐ Yes	☐ No
Any discharges	☐ Yes	☐ No
Any sheen or chemical odors evident on effluent	☐ Yes	☐ No
General Cleanliness of area	☐ Good	☐ Bad
Comments (Note specific outfall comment is for):		

Additional Comments:

_____
_____
_____
_____

FORM 3 –WEEKLY INSPECTION LOG

Month: _____

Stormwater inspections should be completed on a weekly basis. **In the event that any unsatisfactory conditions are observed, please include a note in the section below and contact supervisor to develop a corrective action plan.**

	Week 1	Week 2	Week 3	Week 4	Week 5
Date					
Time					
Inspector					
Active Applications Areas	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Material Storage Areas	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Stabilization Measures	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Stormwater Structural Control Measures	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Leachate Collection System	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Equipment and Vehicle Travel Routes	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Sediment and Erosion Control	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory	☐ Satisfactory ☐ Unsatisfactory
Notes:					

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APPENDIX D

Appendix D
Training Documentation

TRAINING RECORD

The operating personnel indicated below have been instructed in regard to the purpose, content, and implementation of the SWPP Plan. By their signature, they indicate their review and understanding of this Plan and have received appropriate interpretation and instruction for its implementation.

Instructor's Name(s): _____

Course Title: Stormwater Pollution Prevention Plan Training

Course Date: _____

Personnel Name	Personnel Signature

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APPENDIX E

Appendix E
Corrective Action and AIM Documentation

FORM 4 – Corrective Action Documentation

Type Condition or Triggering Event:

☐ Unauthorized Release or Discharge[1]
☐ Effluent Limitation Exceedance
☐ Inadequate Stormwater Control Measures
☐ Violation of Sector-Specific Requirements
☐ Visual Evidence of Stormwater Pollution[2]
☐ Other _____

Description of Condition:

_____
_____
_____

For Spills and Leaks:

Description of Spill or Leak:

_____
_____

Material: _____

Date/Time: _____

Amount: _____

Location: _____

Cause of Spill: _____

Discharge to Water of the U.S.: ☐ Yes ☐ No

Date Condition or Trigger Event was Identified:

_____

Actions Taken within 14 Days: ☐ Yes ☐ No

If No explain: _____
_____

Description of Actions Taken:

_____
_____
_____
_____

45 Day Extension[3] (If Applicable):

_____
_____
_____

Name of Preparer (s): _____
Signature of Preparer (s): _____

[1] Spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the United States

[2] e.g. color, odor, floating solids

[3] If applicable, document rationale provided to EPA for extension of 45 day timeframe

FORM 5 – AIM Documentation

Date Trigger Event was Identified: _____

AIM Triggering Event:

☐ Four quarterly annual average exceeds benchmark threshold

☐ A single sample exceeds benchmark threshold by more than four times the value

☐ Sample exceeds benchmark threshold after implementing AIM measures

Pollutant(s) Exceeded and Results:

	Sample 1	Sample 2	Sample 3	Sample 4	Average Result	Benchmark Value
Date						
Iron						

AIM Level Triggered:

☐ **AIM Level 1** AIM trigger event has occurred

☐ **AIM Level 2** Parameter is over threshold after implementing AIM Level 1 measures

☐ **AIM Level 3** Parameter is over threshold after implementing AIM Level 2 measures

Description of AIM Response Action Taken:

_____

_____

_____

_____

Exception from AIM Requirements and Continued Benchmark Monitoring (If Applicable):

☐ **Solely Attributable to Natural Background Pollutant Levels**

Attach supporting rational and applicable data

☐ **Due to Run-On**

Attach documentation and concurrence from EPA Regional Office

☐ **Due to An Abnormal Event**

Attach supporting documentation

☐ **Demonstrated to Not Result in An Exceedance of Facility-Specific Value Using National Recommended Water Quality Criteria in Lieu of Applicable MSGP Benchmark Threshold (For Aluminum and Copper Benchmark Parameters Only)**

Attach documentation and concurrence from EPA Regional Office

☐ **Demonstrated Not to Result in Any Exceedance of Water Quality Standards**

Attach supporting rational and applicable data

Name of Preparer (s): _____

Signature of Preparer (s): _____

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APPENDIX F

Appendix F
Laboratory Results Documentation

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APPENDIX G

Appendix G
Sector Specific Fact Sheet

Industrial Stormwater

Fact Sheet Series

Sector L: Landfills and Land Application Sites

U.S. EPA Office of Water
EPA-833-F-06-027
February 2021

What is the NPDES stormwater permitting program for industrial activity?

Activities, such as material handling and storage, equipment maintenance and cleaning, industrial processing or other operations that occur at industrial facilities are often exposed to stormwater. The runoff from these areas may discharge pollutants directly into nearby waterbodies or indirectly via storm sewer systems, thereby degrading water quality.

In 1990, the U.S. Environmental Protection Agency (EPA) developed permitting regulations under the National Pollutant Discharge Elimination System (NPDES) to control stormwater discharges associated with eleven categories of industrial activity. As a result, NPDES permitting authorities, which may be either EPA or a state environmental agency, issue stormwater permits to control runoff from these industrial facilities.

What types of industrial facilities are required to obtain permit coverage?

This fact sheet specifically discusses stormwater discharges from landfills and land application sites. Facilities and products in this group fall under the following categories, all of which require coverage under an industrial stormwater permit:

- Landfills
- Land application sites
- Open dumps that receive or have received industrial waste

These include sites subject to regulation under Subtitle D of the Resource Conservation and Recovery Act (RCRA) including municipal solid waste landfills (MSWLFs), industrial solid nonhazardous waste landfills, and industrial waste land application sites.

What does an industrial stormwater permit require?

Common requirements for coverage under an industrial stormwater permit include development of a written stormwater pollution prevention plan (SWPPP), implementation of control measures, and submittal of a request for permit coverage, usually referred to as the Notice of Intent or NOI. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and control measures that will be implemented at your facility to minimize the discharge of these pollutants in runoff from the site. These control measures include site-specific best management practices (BMPs), maintenance plans, inspections, employee training, and reporting. The procedures detailed in the SWPPP must be implemented by the facility and updated as necessary, with a copy of the SWPPP kept on-site. The industrial stormwater permit also requires collection of visual, analytical, and/or compliance monitoring data to determine the effectiveness of implemented BMPs. For more information on EPA's industrial stormwater permit and links to State stormwater permits, go to **www.epa.gov/npdes/stormwater** and click on "Industrial Activity."

What pollutants are associated with activities at my facility?

Pollutants conveyed in stormwater discharges from landfills and land application sites will vary. There are a number of factors that influence to what extent industrial activities and significant materials can affect water quality.

- Geographic location
- Topography
- Hydrogeology
- Extent of impervious surfaces (e.g.,, concrete or asphalt)
- Type of ground cover (e.g., vegetation, crushed stone, or dirt)
- Outdoor activities (e.g., material storage, loading/unloading, vehicle maintenance)
- Size of the operation
- Type, duration, and intensity of precipitation events

Factors such as these will interact to influence the quantity and quality of stormwater runoff. At landfill and land application sites, runoff carrying suspended sediments and the commingling of runoff with uncontrolled leachate are the two primary sources of pollutants in stormwater. In addition, sources of pollutants other than stormwater, such as illicit connections, spills, and other improperly dumped materials, may increase the pollutant loading discharged into receiving waters. Other potential sources of pollutants at landfills and land application sites include those from ancillary areas and areas which are not directly associated with landfill or land application activities (e.g., vehicle maintenance, truck washing). These activities may be subject to permit requirements separate from those required of landfills and land application sites.

Municipal Solid Waste Landfills (MSWLFs). The wastes disposed of in MSWLFs are variable and may include household waste (including household hazardous waste which is excluded from RCRA hazardous waste regulation), nonhazardous incinerator ashes, commercial wastes, yard wastes, tires, white goods, construction wastes, municipal and industrial sludges, asbestos, and other industrial wastes. Industrial process wastes represent a small percent of the total wastestream (although most MSWLFs currently or have previously accepted industrial wastes and are therefore subject to stormwater permitting requirements). MSWLFs that operated prior to the implementation of RCRA hazardous waste management requirements in 1980 may have received wastes that would have been classified as hazardous wastes under current RCRA requirements.

Industrial landfills, most of which are privately owned, only receive wastes from industrial facilities such as factories, processing plants, and manufacturing sites. These facilities may also receive hazardous wastes from very small quantity hazardous waste generators. Included in these waste streams are some PCB contaminated wastes. The Toxic Substances Control Act PCB disposal regulations allow limited categories of PCB materials to be disposed of in RCRA Subtitle D landfills. Because wastes generated by industrial facilities vary considerably, both between and within industries, the wastes disposed of at industrial landfills can be highly variable. For example, the industrial nonhazardous waste category includes wastes from the pulp and paper industry, the organic chemical industry, the textile manufacturing industry, and a variety of other industries. Consequently, these waste streams may vary in chemical composition and/or physical form.

Land application sites receive wastes (primarily wastewaters and sludges) from facilities in virtually every major industrial category. Similar to landfills, the variability in types of waste that are land applied precludes any general characterization of the materials that may be exposed to stormwater. Typically, individual land applications will only dispose of wastes with specific characteristics. However, the criteria for selection are site-specific depending on type of process used and the soil characteristics. Waste application techniques are dependent on waste characteristics, cover crop and soil characteristics.

Stormwater discharges from landfills and land application sites often contain high TSS levels because of the extensive land disturbance activities associated with landfill operations. Suspended solids can adversely affect fisheries by covering the bottom of a stream or lake with a blanket of material that

may destroy spawning grounds or the bottom fauna upon which fish feed. In addition, while they remain in suspension, suspended solids can increase turbidity, reduce light penetration, and impair the photosynthetic activity of aquatic plants.

The activities, pollutant sources, and associated pollutants detailed in Table 1A and 1B are commonly found at landfills and land application sites. It is important to note that the occurrence and levels of pollutants other than TSS in stormwater discharges are dependent on the types of wastes deposited/applied and facility design and operation (including use of stormwater management/treatment practices).

Table 1A. Common Activities, Pollutant Sources, and Associated Pollutants at Landfills

Activity	Pollutant Source	Pollutant
Cover crop management	Applied chemicals	Fertilizers, pesticides, and herbicides
Outdoor chemical storage	Exposure of chemical material storage areas to precipitation	Various chemicals stored
Waste transportation	Waste tracking on-site and haul road, solids transport on wheels and exterior of trucks or other equipment	TSS, total dissolved solids (TDS), turbidity, floatable
Leachate collection	Uncontrolled leachate (commingling of leachate with runoff or run-on)	Iron, TSS, biochemical oxygen demand (BOD), ammonia, alpha terpineol, benzoic acid, p-Cresol, phenol, zinc, pH
Landfill operations	Exposure of waste at open face	BOD, TSS, TDS, turbidity
Exposed soil from excavating cells/trenches	Erosion	TSS, TDS, turbidity
Exposed stockpiles of cover material		
Inactive cells with final cover but not finally stabilized		
Daily or intermediate cover placed on cells or trenches		
Haul roads (including vehicle tracking of sedimentation)		
Vehicle/equipment maintenance	Fueling activities	Diesel fuel, gasoline, oil
	Parts cleaning	Solvents, oil, heavy metals, acid/alkaline wastes
	Waste disposal of oily rags, oil and gas filters, batteries, coolants, degreasers	Oil, heavy metals, solvents, acids
	Fluid replacement including hydraulic fluid, oil, transmission fluid, radiator fluids, and grease	Oil and grease, arsenic, lead, cadmium, chromium, chemical oxygen demand (COD), and benzene

Table 1B. Common Activities, Pollutant Sources, and Associated Pollutants at Land Application Sites

Activity	Pollutant Source	Pollutant
Cover crop management	Applied chemicals	Fertilizers, pesticides, and herbicides
Outdoor chemical storage	Exposure of chemical material storage areas to precipitation	Various chemicals stored
Waste transportation	Waste tracking on-site and haul road, solids transport on wheels and exterior of trucks or other equipment	TSS, total dissolved solids (TDS), turbidity, floatable

Table 1B. Common Activities, Pollutant Sources, and Associated Pollutants at Land Application Sites (continued)

Activity	Pollutant Source	Pollutant
Vehicle/equipment maintenance	Fueling activities	Diesel fuel, gasoline, oil
	Parts cleaning	Solvents, oil, heavy metals, acid/alkaline wastes
	Waste disposal of oily rags, oil and gas filters, batteries, coolants, degreasers	Oil, heavy metals, solvents, acids
	Fluid replacement including hydraulic fluid, oil, transmission fluid, radiator fluids, and grease	Oil and grease, arsenic, lead, cadmium, chromium, chemical oxygen demand (COD), and benzene

Note: Activities may have additional pollutant sources that contain PFAS and can come into contact with stormwater discharges. Per- and polyfluoroalkyl substances (PFAS) are a group of man-made chemicals that include PFOA, PFOS, GenX, and many other chemicals.

What BMPs can be used to minimize contact between stormwater and potential pollutants at my facility?

A variety of BMP options may be applicable to eliminate or minimize the presence of pollutants in stormwater discharges from landfills and land application sites. You will likely need to implement a combination or suite of BMPs to address stormwater runoff at your facility. Your first consideration should be for pollution prevention BMPs, which are designed to prevent or minimize pollutants from entering stormwater runoff and/or reduce the volume of stormwater requiring management. Prevention BMPs can include regular cleanup, collection and containment of debris in storage areas, and other housekeeping practices, spill control, diversions, and employee training. It may also be necessary to implement treatment BMPs, which are engineered structures intended to treat stormwater runoff and/or mitigate the effects of increased stormwater runoff peak rate, volume, and velocity. Treatment BMPs are generally more expensive to install and maintain and include oil-water separators, sedimentation ponds, and proprietary filter devices.

BMPs must be selected and implemented to address the following:

Good Housekeeping Practices

Good housekeeping is a practical, cost-effective way to maintain a clean and orderly facility to prevent potential pollution sources from coming into contact with stormwater. It includes establishing protocols to reduce the possibility of mishandling materials or equipment and training employees in good housekeeping techniques. Good housekeeping practices must include a schedule for regular pickup and disposal of waste materials such as oils and fluids and routine inspections of drums, tanks, and containers for leaks and structural conditions. Practices also include containing and covering garbage, waste materials, and debris. Involving employees in routine monitoring of housekeeping practices has proven to be an effective means of ensuring the continued implementation of these measures.

Specific good housekeeping practices for landfills and land application sites include providing protected storage areas for pesticides, herbicides, fertilizers, and other significant materials, vehicle maintenance areas, and recycled materials areas if present. Additionally, a preventative maintenance program should be developed that addresses:

- The maintenance of containers used for outdoor chemical/significant materials/recyclables storage to prevent leaking
- All elements of leachate collection and treatment systems to prevent exposure of leachate to stormwater
- The integrity and effectiveness of any intermediate or final cover

Industrial facilities can conduct activities that use, store, manufacture, transfer, and/or dispose of PFAS containing materials. Successful good housekeeping practices to minimize PFAS exposure to stormwater could include inventorying the location, quantity, and method of storage; using properly designed storage and transfer techniques; providing secondary containment around chemical storage areas; and using proper techniques for cleaning or replacement of production systems or equipment.

Minimizing Exposure

Where feasible, minimizing exposure of potential pollutant sources to precipitation is an important control option. For landfills and land application sites, this measure is again most applicable to areas other than the active disposal/application sited although minimizing disturbance in these areas is important as well. Minimizing exposure prevents pollutants, including debris, from coming into contact with precipitation and can reduce the need for BMPs to treat contaminated stormwater runoff. It can also prevent debris from being picked up by stormwater and carried into drains and surface waters. Examples of BMPs for exposure minimization include covering materials or activities with temporary structures (e.g., tarps) when wet weather is expected or moving materials or activities to existing or new permanent structures (e.g., buildings, silos, sheds). Another example could include locating PFAS-containing materials and residues away from drainage pathways and surface waters.

Erosion and Sediment Control

BMPs must be selected and implemented to limit erosion on areas of your site that are likely to experience erosion, such as access roads, application areas, and active and recently reclaimed landfill areas. Erosion control BMPs such as seeding and mulching prevent soil from becoming dislodged and should be considered first along with diverting uncontaminated surface flows away from disturbed areas. Sediment control BMPs such as silt fences, sediment ponds, and stabilized entrances trap sediment after it has eroded. Sediment control BMPs should be used to back-up erosion control BMPs.

Landfill construction creates constant changes in the contours of the facility resulting in changing patterns of stormwater run-on and runoff. Controlling erosion of landfill slopes is among the primary concerns of the landfill operator. Practices generally include a combination of temporary controls (straw bales, silt fences, etc.) in active disposal areas and permanent controls (recontouring, revegetation, etc.) in areas where waste disposal has been completed.

Specific sediment and erosion practices for landfills and land application sites include providing temporary stabilization and placing geotextiles on the inactive portions of stockpiles. This should be done for:

- Materials stockpiled daily for immediate and final cover
- Inactive areas of the landfill or open dump
- Any landfill or open dump area with final covers but where vegetation has yet to establish itself
- Where waste application has been completed at land application sites but final vegetation has not yet been established

Management of Runoff

Your SWPPP must contain a narrative evaluation of the appropriateness of stormwater management practices that divert, infiltrate, reuse, or otherwise manage stormwater runoff so as to reduce the discharge of pollutants. Appropriate measures are highly site-specific, but may include, among others, vegetative swales, collection and reuse of stormwater, inlet controls, snow management, infiltration devices, and wet retention measures. Incorporating treatment like granular activated carbon may be helpful to remove certain pollutants like PFAS.

A combination of preventive and treatment BMPs will yield the most effective stormwater management for minimizing the offsite discharge of pollutants via stormwater runoff. Though not specifically outlined in this fact sheet, BMPs must also address preventive maintenance records or logbooks, regular facility inspections, spill prevention and response, and employee training.

All BMPs require regular maintenance to function as intended. Some management measures have simple maintenance requirements, others are quite involved. You must regularly inspect all BMPs to ensure they are operating properly, including during runoff events. As soon as a problem is found, action to resolve it should be initiated immediately.

Implement BMPs, such as those listed below in Table 2 for the control of pollutants at landfills and land application sites, to minimize and prevent the discharge of pollutants in stormwater. Identifying weaknesses in current facility practices will aid the permittee in determining appropriate BMPs that will achieve a reduction in pollutant loadings. BMPs listed in Table 2 are broadly applicable to landfills and land application sites; however, this is not a complete list and you are recommended to consult with regulatory agencies or a stormwater engineer/consultant to identify appropriate BMPs for your facility.

Table 2A. BMPs for Potential Pollutant Sources at Landfills and Land Application Sites

Pollutant Source	BMPs
Application of fertilizers, pesticides, and herbicides	❑ Observe all applicable Federal, State, and local regulations when using these products. ❑ Strictly follow recommended application rates and methods (i.e., do not apply in excess of vegetative requirements). ❑ Have materials such as absorbent pads easily accessible to clean up spills. ❑ Inspect and maintain all containers used to prevent leaking. ❑ Implement employee training program for proper application and spill prevention. ❑ Store drums and containers indoors when possible.
Chemical material storage areas	❑ Store drums, including empty or used drums, in secondary containment with a roof or cover (including temporary cover such as a tarp that prevents contact with precipitation). ❑ Provide secondary containment, such as dikes or portable containers, with a height sufficient to contain a spill (the greater of 10 percent of the total enclosed tank volume or 110 percent of the volume contained in the largest tank). ❑ Locate material storage areas away from high traffic areas and surface waters. ❑ Inspect storage tanks and piping systems (pipes, pumps, flanges, couplings, hoses, and valves) for failures or leaks and perform preventive maintenance. ❑ Clearly label drums with their contents. ❑ Maintain an inventory of fluids to identify leakage. ❑ Properly dispose of chemicals that are no longer in use. ❑ Store and handle reactive, ignitable, or flammable liquids in compliance with applicable local fire codes, local zoning codes, and the National Electric Code. ❑ Provide drip pads/pans where chemicals are transferred from one container to another to allow for recycling of spills and leaks. ❑ Have materials such as absorbent pads easily accessible to clean up spills. ❑ Develop and implement spill plans or spill prevention, containment, and countermeasure (SPCC) plans, if required for your facility. ❑ Provide transfer of PFAS containing materials and their proper collection and disposal methods in the event of a release from their container. ❑ Train employees in spill prevention and control and proper materials management.
Exposure of waste at open face (Landfills only)	❑ Minimize the area of exposed open face as much as is practicable. ❑ Divert flows around open face using structural measures such as dikes, berms, swales, or pipe slope drains. ❑ Maintain the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary to minimize the effects of settlement, sinking, and erosion). ❑ Regularly inspect erosion and sediment controls.

Table 2A. BMPs for Potential Pollutant Sources at Landfills and Land Application Sites (continued)

Pollutant Source	BMPs
Exposure of waste at open face (Landfills only)	❑ Minimize the area of exposed open face as much as is practicable. ❑ Divert flows around open face using structural measures such as dikes, berms, swales, or pipe slope drains. ❑ Maintain the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary to minimize the effects of settlement, sinking, and erosion). ❑ Regularly inspect erosion and sediment controls.
Waste tracking and solids transport on wheels and exterior of trucks or other equipment from on-site/offsite or haul roads.	❑ Clean wheels and exterior of trucks or other equipment as necessary to minimize waste tracking (but contain any wash waters). ❑ Establish procedures such as rumble strips and gravel apron to minimize offsite tracking
Uncontrolled leachate	❑ Divert flows around site using structural measures such as dikes, berms, or swales. ❑ Frequently inspect leachate collection system and landfill for leachate leaks. ❑ Maintain landfill cover and vegetation. ❑ Maintain leachate collection system. ❑ Maintain all elements of leachate collection and treatment systems to prevent commingling of leachate with stormwater.
Erosion from: Excavating cells/ trenches Stockpiles of cover material Inactive cells with final cover but not finally stabilized Daily or intermediate cover placed on cells or trenches Haul roads	❑ Implement structural controls such as dikes, swales, silt fences, filter berms, sediment traps and ponds, outlet protection, pipe slope drains, check dams, and terraces to convey runoff, to divert stormwater flows away from areas susceptible to erosion, and to prevent sediments from entering water bodies. ❑ Confine stockpiling to areas outside of drainage pathways and away from surface waters ❑ Stabilize soils with temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles ❑ Leave vegetative filter strips along streams. ❑ Keep as much vegetation as possible when building roads and seed as necessary and appropriate. ❑ Construct vegetated swales along road. ❑ Stabilize haul roads and entrances to landfill with gravel or stone. ❑ Clean wheels and body of trucks or other equipment as necessary to minimize sediment tracking (but contain any wash waters). ❑ Frequently inspect all stabilization and structural erosion control measures and perform all necessary maintenance and repairs.
Vehicle/equipment fueling	Stationary fueling areas ❑ Conduct fueling operations (including the transfer of fuel from tank trucks) on an impervious or contained pad or under a roof or canopy where possible. Covering should extend beyond spill containment pad to prevent rain from entering. ❑ When fueling in uncovered area, use a concrete pad (asphalt is not chemically resistant to the fuels being handled). ❑ Use drip pans where leaks or spills of fuel can occur and where making and breaking hose connections. ❑ Use fueling hoses with check valves to prevent hose drainage after filling. ❑ Use spill and overflow protection devices.

Table 2A. BMPs for Potential Pollutant Sources at Landfills and Land Application Sites (continued)

Pollutant Source	BMPs
Vehicle/equipment fueling (continued)	Stationary fueling areas (continued) ❑ Keep spill cleanup materials readily available. Clean up spills and leaks immediately. ❑ Minimize/eliminate run-on onto fueling areas with diversion dikes, berms, curbing, surface grading or other equivalent measures. ❑ Collect stormwater runoff and provide treatment or recycling. ❑ Use dry cleanup methods for fuel area rather than hosing the fuel area down. Follow procedures for sweeping up absorbents as soon as spilled substances have been absorbed. ❑ Regularly inspect and perform preventive maintenance on storage tanks to detect potential leaks before they occur. ❑ Inspect the fueling area for leaks and spills. ❑ Provide curbing or posts around fuel pumps to prevent collisions during vehicle ingress and egress. ❑ Discourage "topping off" of fuel tanks. Mobile fueling areas ❑ Use drip pan under the transfer hose. ❑ Use fueling hoses with check valves to prevent hose drainage after filling. ❑ Ensure the fueling vehicle is equipped with a manual shutoff valve. ❑ Do not allow topping off of the fuel in the receiving equipment. ❑ Train personnel on fueling BMPs.
Vehicle/equipment maintenance	Good Housekeeping ❑ Eliminate floor drains that are connected to the storm or sanitary sewer; if necessary, install a sump that is pumped regularly. Collected wastes should be properly treated or disposed of by a licensed waste hauler. ❑ Use drip plans, drain boards, and drying racks to direct drips back into a fluid holding tank for reuse. ❑ Drain all parts of fluids prior to disposal. Oil filters can be crushed and recycled. ❑ Promptly transfer used fluids to the proper container; do not leave full drip pans or other open containers around the shop. Empty and clean drip pans and containers. ❑ Dispose of greasy rags, oil filters, air filters, batteries, spent coolant, and degreasers properly. ❑ Store batteries and other significant materials inside. ❑ Label and track the recycling of waste material (e.g., used oil, spent solvents, batteries). ❑ Maintain an organized inventory of materials. ❑ Eliminate or reduce the number of hazardous materials used and amount of waste by substituting nonhazardous or less hazardous materials. ❑ Clean up leaks, drips, and other spills without using large amounts of water. ❑ Prohibit the practice of hosing down an area where the practice would result in the exposure of pollutants to stormwater. ❑ Clean without using liquid cleaners whenever possible. ❑ Do all cleaning at a centralized station so the solvents stay in one area. ❑ If parts are dipped in liquid, remove them slowly to avoid spills. ❑ Do not pour liquid waste down floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

Table 2A. BMPs for Potential Pollutant Sources at Landfills and Land Application Sites (continued)

Pollutant Source	BMPs
Vehicle/equipment maintenance (continued)	Minimizing Exposure ❑ Perform all cleaning operations indoors or under covering when possible. Conduct the cleaning operations in an area with a concrete floor with no floor drainage other than to sanitary sewers or treatment facilities. ❑ If operations are uncovered, perform them on a concrete pad that is impervious and contained. ❑ Park vehicles and equipment indoors or under a roof whenever possible where proper control of oil leaks/spills is maintained and exposure to stormwater is prevented. ❑ Watch vehicles closely for leaks and use pans to collect fluid when leaks occur. Management of Runoff ❑ Use berms, curbs, or other diversion measures to ensure that stormwater runoff from other parts of the facility does not flow over the maintenance area. ❑ Collect the stormwater runoff from the cleaning area and provide treatment or recycle the runoff. Discharge vehicle wash or rinse water to the sanitary sewer (if allowed by sewer authority), wastewater treatment, a land application site, or recycle on-site. DO NOT discharge washwater to a storm drain or to surface water. Inspections and Training ❑ Inspect the maintenance area regularly for proper implementation of control measures. ❑ Train employees on proper waste control and disposal procedures.

What if activities and materials at my facility are not exposed to precipitation?

The industrial stormwater program requires permit coverage for a number of specified types of industrial activities. However, when a facility is able to prevent the exposure of ALL relevant activities and materials to precipitation, it may be eligible to claim no exposure and qualify for a waiver from permit coverage.

If you are regulated under the industrial permitting program, you must either obtain permit coverage or submit a no exposure certification form, if available. Check with your permitting authority for additional information as not every permitting authority program provides no exposure exemptions.

Where do I get more information?

For additional information on the industrial stormwater program see **www.epa.gov/npdes/stormwater/msgp**.

A list of names and telephone numbers for each EPA Region or state NPDES permitting authority can be found at **www.epa.gov/npdes/stormwatercontacts**.

References

Information contained in this Fact Sheet was compiled from EPA's past and current Multi-Sector General Permits and from the following sources:

♦ U.S. EPA, Office of Wastewater Management. *NPDES Stormwater Multi-Sector General Permit for Industrial Activities (MSGP)*.
www.epa.gov/npdes/stormwater/msgp

Tighe&Bond

APPENDIX H

Appendix H
Multi-Sector General Permit

A copy of the Multi-Sector General Permit can be found at the following address:

https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp

Tighe&Bond

APPENDIX I

Appendix I
Notice of Intent

NPDES FORM 3510-6	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0004

Permit Information

Master Permit Number: MAR050000

NPDES ID: MAR053687

Eligibility Information

State/territory where your facility is discharging: MA

Does your facility discharge to federally recognized Indian Country lands? No

Are you a *"Federal Operator"* as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? No

Which type of form would you like to submit? Notice of Intent (NOI)

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.2.1. and 1.2.2. will be discharged, they must be covered under another NPDES permit.

Yes

Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? No

- **Have stormwater discharges from your facility been covered previously under an NPDES permit?** Yes
  - **If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:** MAR053687
- **Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))**
  No

What is the legal name of the Operator as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? Peabody Monofill Associates

What is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)? PEABODY ASH MONOFILL

Operator Information

Operator Information

Operator Name: Peabody Monofill Associates

Operator Mailing Address

Address Line 1: 141 Cranberry Highway

Address Line 2:

City: West Wareham

ZIP/Postal Code: 02576

State: MA

County or Similar Division: Plymouth

Operator Point of Contact Information

First Name **Middle Initial** **Last Name:** Steven . Melloni

Title: Area Residuals Manager

Phone: 5082914408 **Ext.:**

Email: SMelloni@covanta.com

NOI Preparer Information

☑ **This NOI is being prepared by someone other than the certifier.**

First Name **Middle Initial** **Last Name:** Emma . Larkin

Organization: Tighe & Bond

Phone: 508-304-6361 **Ext.:**

Email: elarkin@tighebond.com

Facility Information

Facility Information

Facility Name: PEABODY ASH MONOFILL

Facility Address

Address Line 1: 40 FARM AVENUE

Address Line 2:

City: PEABODY

ZIP/Postal Code: 01960

State: MA

County or Similar Division: Essex

Latitude/Longitude for the Facility

Latitude/Longitude: 42.529412°N, 70.989232°W

Latitude/Longitude Data Source: Map

Horizontal Reference Datum: WGS 84

General Facility Information

What is the ownership type of the facility? Privately Owned Facility

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 25

Is your facility presently inactive and unstaffed? No

Exception for Inactive and Unstaffed Facilities: The requirement for indicator monitoring, impaired waters monitoring, and/or benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater.

If circumstances change during the permit term that affect your qualifications for this exception to monitoring requirements (i.e. industrial materials or activities exposure to stormwater or your facility's active/inactive and staffed/unstaffed status) you must submit a NOI notifying EPA of the change in circumstances.

Sector-Specific Information

Primary Sector: L

Primary Subsector: L1

Primary Activity Code: LF

Co-Located Sectors:

Co-Located Sector: L

Co-Located Subsector: L2

Co-Located Activity Code: LF

Discharge Information

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.2.1 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the authorized stormwater and non-stormwater discharges listed in Parts 1.2.1 and 1.2.2 will be discharged, they must be covered under another NPDES permit.

Yes

Federal Effluent Limitation Guidelines

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 445, Subpart A & B	Runoff from hazardous waste and non-hazardous waste landfills	L	02/28/2000	**Does your facility have any discharges subject to this effluent limitation guideline?** Yes

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? Yes

Other Discharge Information

Does your facility discharge into a Municipal Separate Sewer System (MS4)? Yes

➔ **If yes, provide the name of the MS4 operator:** South Essex Sewerage District

Receiving Waters Information

List all of the stormwater discharge points from your facility.

Discharge Point 001:

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1 -** All Landfill, Land Application Sites and Open Dumps	LF
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2 -** All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.529104°N, 70.990316°W

☐ **This discharge point is *Substantially Identical* to an existing discharge point.**

Receiving Water

GNIS Name:
n/a

Waterbody Name:
Unnamed Waterbody

Listed Water ID:
n/a

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Massachusetts Impaired Waters (IW) information and required monitoring parameters available at:

https://www.mass.gov/lists/integrated-lists-of-waters-related-reports (https://www.mass.gov/lists/integrated-lists-of-waters-related-reports)

https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf (https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf)

Where the Massachusetts monitoring guidance identifies one or more monitoring parameters that are different than the identified pollutant causing the impairment, indicate the monitoring parameter(s) as the pollutant(s) causing the impairment in the table below (select Yes for "Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL?" to display the pollutant table). Where the monitoring guidance indicates No Monitoring Required "NMR" for the pollutant causing the impairment, do not add a Cause of Impairment Group/Pollutant and delete any that were automatically populated in the table.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? No

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 002:

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1 -** All Landfill, Land Application Sites and Open Dumps	LF
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2 -** All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.529896°N, 70.987595°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 001

Receiving Water

GNIS Name:
n/a

Waterbody Name:
Unnamed Waterbody

Listed Water ID:
n/a

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Massachusetts Impaired Waters (IW) information and required monitoring parameters available at:

https://www.mass.gov/lists/integrated-lists-of-waters-related-reports (https://www.mass.gov/lists/integrated-lists-of-waters-related-reports)

https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf (https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf)

Where the Massachusetts monitoring guidance identifies one or more monitoring parameters that are different than the identified pollutant causing the impairment, indicate the monitoring parameter(s) as the pollutant(s) causing the impairment in the table below (select Yes for "Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL?" to display the pollutant table). Where the monitoring guidance indicates No Monitoring Required "NMR" for the pollutant causing the impairment, do not add a Cause of Impairment Group/Pollutant and delete any that were automatically populated in the table.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? No

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 003:

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

	Sector	Subsector	SIC/Activity Code
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1 -** All Landfill, Land Application Sites and Open Dumps	LF
☑	**L -** LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2 -** All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.531496°N, 70.990805°W

☑ **This discharge point is *Substantially Identical* to an existing discharge point.**

➔ **Substantially Identical to Discharge Point ID:** 001

Receiving Water

GNIS Name: n/a

Waterbody Name: Unnamed Waterbody

Listed Water ID: n/a

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit? No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Massachusetts Impaired Waters (IW) information and required monitoring parameters available at:

https://www.mass.gov/lists/integrated-lists-of-waters-related-reports (https://www.mass.gov/lists/integrated-lists-of-waters-related-reports)

https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf (https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2021-part-425-parameters-ma.pdf)

Where the Massachusetts monitoring guidance identifies one or more monitoring parameters that are different than the identified pollutant causing the impairment, indicate the monitoring parameter(s) as the pollutant(s) causing the impairment in the table below (select Yes for "Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL?" to display the pollutant table). Where the monitoring guidance indicates No Monitoring Required "NMR" for the pollutant causing the impairment, do not add a Cause of Impairment Group/Pollutant and delete any that were automatically populated in the table.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? No

Has a TMDL been completed for this receiving waterbody? No

SWPPP Information

Has the SWPPP been prepared in advance of filing this NOI, as required? Yes

SWPPP Contact Information:

First Name Middle Initial Last Name: Steven Melloni

Phone: 5082914408 **Ext.:**

Email: smelloni@covanta.com

SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following three options. Select one of the options and provide the required information.

Note: you are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

☐ **Option 1: Attach a current copy of your SWPPP to this NOI.**

☐ **Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).**

☑ **Option 3: Provide the following information from your SWPPP:**

A. Describe your onsite industrial activities exposed to stormwater and potential spill and leak areas.

e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams

```
Activities at the facility include ash and soil disposal within lined cells of the landfill with a leachate collection syste
ms.
The following activities are exposed to stormwater at the facility:
-Landfilling of ash and soils; and
-Unloading/Loading of Trucks.
```

B. List the pollutants(s) or pollutant constituent(s) associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or in any authorized non-stormwater discharges listed in Part 1.1.3.

```
Potential Pollutants include: Dust, Ash, Spillage of Cover Materials.
```

C. Describe the control measures you will employ to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2 Water Quality-Based Effluent Limitations (see Part 5.2.4).

```
Control Measures:
-Peabody Ash Monofill will maintain vegetative cover on the landfill side slopes with intermediate cover or final closure sy
stems;
-Routine inspection and maintenance of landfill cover soils will be conducted to minimize erosion and sedimentation of storm
water system structures;
-Spilled material will be collected and disposed of properly in an effort to minimize stormwater contamination; and
-The landfill is graded to contain contact water to within the landfill boundaries.
```

D. Provide a schedule for good housekeeping and maintenance (see Part 5.2.5.1) and a schedule for all inspections required in Part 4 (see Part 5.2.5.2).

```
Good Housekeeping:
-Shipping and receiving areas will be included as part of the routine inspection to limit potential spills;
-If an erosion or sediment problem is discovered through the regular inspections at the facility, Peabody Monofill Associate
s will take corrective actions at that time;
-The landfill area is included as part of the quarterly visual inspections and facility personnel continually monitor the ar
eas surrounding it to ensure that spilled materials are returned to the landfill;
-Repairs to outdoor equipment and stormwater control measures shall be carried out as soon as possible after problems are di
scovered;
-Inspections to outdoor equipment and control measures shall be performed on a frequent basis; and
-The landfill access roads and shipping and receiving areas are maintained and watered as necessary for dust control.

The inspection schedule is as follows:
-Inspections focusing on areas of landfills that have not yet been finally stabilized; areas used for storage of material an
d wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatmen
t systems, and locations where equipment and waste trucks enter and exit the site are conducted weekly.
-Routine Facility inspections are conducted quarterly and at least one round is conducted during a period when stormwater di
scharge is occurring.
-Stormwater visual assessments are conducted quarterly.
-Benchmark monitoring is required quarterly in the first and fourth year of permit coverage with additional monitoring if th
eir is exceedances.
-Indicator monitoring is required quarterly.
-Effluent limitations monitoring is required annually with additional monitoring if their is exceedances.
-An annual report is due each year by January 30th.
```

Endangered Species Protection Worksheet: Criterion C1

The following questions will help you determine your eligibility under Part 1.1.4 of the permit with respect to protection of Endangered Species Act (ESA) species and critical habitat(s). Please refer to Appendix E (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_e_-_procedures_relating_to_endangered_species_protection.pdf) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).

Determine ESA Eligibility Criterion

Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP? No

Are your industrial activities the subject of a permit under section 10 of the ESA by the USFWS and/or NMFS, and this authorization addresses the effects of your facility's discharges and discharge-related activities on ESA-listed species and critical habitat?

No

You must determine whether species listed as either threatened or endangered under the Endangered Species Act, and/or their critical habitat are located in your facility's action area. ESA-listed species and critical habitat are under the purview of the NMFS and the USFWS.

Determine Your Action Area

Your "action area" (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) includes all areas to be affected directly or indirectly by the action and not merely the immediate area involved in the action, including areas beyond the footprint of the facility that are likely to be affected by stormwater discharges, discharge-related activities, and authorized non-stormwater discharges. You must select and confirm that all the following are true:

- **In determining my "action area", I have considered that discharges of pollutants into downstream areas can expand the action area well beyond the footprint of my facility and the discharge point(s). I have taken into account the controls I will be implementing to minimize pollutants and the receiving waterbody characteristics (e.g. perennial, intermittent, ephemeral) in determining the extent of physical, chemical, and/or biotic effects of the discharges. I confirm that all receiving waterbodies that could receive pollutants from my facility are included in my action area.**

  True

- **In determining my "action area", I have considered that discharge-related activities must also be accounted for in determining my action area. I understand that discharge-related activities are any activities that cause, contribute to, or result in stormwater and authorized non-stormwater point source discharges, and measures such as the siting, construction, and operation of stormwater controls to control, reduce, or prevent pollutants from being discharged. I understand that any new or modified stormwater controls that will have noise or other similar effects, and any disturbances associated with construction of controls, are part of my action area.**

  True

Provide a written description of your action area and explain your rationale for the extent of the action area drawn on your map. Click here for an example.

The action area for the Peabody Ash Monofill includes the facility property as well as two unnamed wetlands to the east and west of the facility. The limit of the action area reflects the approximate distance at which the discharge waters and pollutants would be expected to cause potential adverse effects to listed species and/or critical habitat because of practices and structural components in place to limit pollutant impacts to stormwater.

Attach a map of the action area for your facility. Mapping tool IPaC (the Information, Planning, and Consultation System) located at http://ecos.fws.gov/ipac/ (https://ecos.fws.gov/ipac/) or click here (/net-msgp/documents/action_area_example.pdf) for an example.

Name	Uploaded Date	Size
IPaC Map.pdf (attachment/713375)	05/24/2021	70.93 KB

Determine if ESA-listed species and/or critical habitat are in your facility's action area.

ESA-listed species and critical habitat are under the purview of the NMFS and the USFWS, and in many cases, you will need to acquire species and critical habitat lists from both federal agencies.

National Marine Fisheries Service (NMFS)

To obtain NMFS-listed species and critical habitat information, use the resources listed below:

General Resources:
- NOAA Fisheries, Regions Page (https://www.fisheries.noaa.gov/regions)

For the Northeastern U.S.:
- NOAA Fisheries Greater Atlantic Region ESA Section 7 Mapper (https://noaa.maps.arcgis.com/apps/webappviewer/index.html?id=1bc332edc5204e03b250ac11f9914a27)

For Puerto Rico:
- *Acropora* critical habitat map (https://www.fisheries.noaa.gov/resource/map/acropora-elkhorn-and-staghorn-coral-critical-habitat-map-and-gis-data)
- Green turtle critical habitat map (https://www.fisheries.noaa.gov/resource/map/green-turtle-critical-habitat-map-and-gis-data)
- Hawksbill Turtle critical habitat map (https://www.fisheries.noaa.gov/resource/map/hawksbill-turtle-critical-habitat-map-and-gis-data)

Western U.S.:
- West Coast Region Protected Resources App (https://www.webapps.nwfsc.noaa.gov/portal/apps/webappviewer/index.html?id=7514c715b8594944a6e468dd25aaacc9)

Pacific Islands:
- Contact the Pacific Islands Regional Office at (808) 725-5000 or pirohonolulu@noaa.gov (mailto:pirohonolulu@noaa.gov)

I have checked the webpages listed above and confirmed that: There are no NMFS-listed species and/or critical habitat in my action area.

U.S. Fish and Wildlife Service (USFWS)

To obtain FWS-listed species and critical habitat information, use the resources listed below:
- IPaC (the Information, Planning, and Consultation System) (https://ecos.fws.gov/ipac/)
- For instructions for using IPaC, click here.

I have checked the webpages listed above and confirmed that: There are FWS-listed species and/or critical habitat in my action area.

For FWS species, include the full printout from your IPaC query/Official Species List.

Name	Uploaded Date	Size
Species List_ New England Ecological Services Field Office (1).pdf (attachment/713376)	05/24/2021	184.79 KB

You may be eligible under **Criterion C.** You must assess whether your discharges and discharge-related activities are likely to adversely affect ESA-listed species or critical habitat, and whether any additional measures are necessary to ensure no likely adverse effects. In order to make a determination of your facility's likelihood of adverse effects, you must complete the Criterion C Eligibility fields below.

Criterion C Eligibility

Select which applies:

Criterion C1: Facility eligible for Criterion C in the 2015 MSGP with no change to ESA-listed species, critical habitat, or action area.
Your facility was eligible for Criterion C in the 2015 MSGP and there has been no change in your facility's action area and you have confirmed that there are no additional ESA-listed species or critical habitat under the jurisdiction of USFWS and/or NMFS in your action area since your certification under Criterion C in the 2015 MSGP. You must provide a description of the basis of this criterion selected on your NOI form and provide documentation supporting your eligibility determination in your SWPPP.

Select which applies:

I am seeking coverage under the MSGP as an existing discharger and there are no modifications to my facility.

Provide a basis statement providing the USFWS and/or NMFS resources consulted that helped you determine that there are no additional ESA-listed species and/or critical habitat have been listed by under the jurisdiction of the Services in your action area.

The following resources were consulted to support the selection of the criterion:
-U.S Fish and Wildlife Service (USFWS) - IPaC project planning tool; and
-National Marine Fisheries Service (NMFA) – NOAA online directory and the Greater Atlantic Region ESA Section 7 Mapper

Note: Any missing or incomplete information in this section may result in a delay of your coverage under the permit.

Historic Preservation: Criterion A

The following questions will help you determine your eligibility under Part 1.1.5 of the permit with respect to preservation of historic properties. You may still use the paper instructions in Appendix F (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_f_-_procedures_relating_to_historic_properties_preservation.pdf) of the MSGP in advance or in conjunction with answering the questions in this section of the form. For more information about your State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO), please visit the National Park Service (NPS) websites at:

- **State Historic Preservation Office (SHPO) (https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm)**
- **Tribal Historic Preservation Office (THPO) (https://www.nps.gov/history/tribes/Tribal_Historic_Preservation_Officers_Program.htm)**

Are you an existing facility that is resubmitting for certification under the 2021 MSGP? Yes

➔ **If you are an existing facility you should have already addressed National Historic Preservation Act (NHPA) issues. To gain coverage under the 2015 MSGP, you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts.**

Will you be constructing or installing any <u>new</u> stormwater control measures? No

You are eligible under **Criterion A**.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Steven Melloni

Certifier Title: Landfill Manager

Certifier Email: smelloni@covanta.com

Certified On: 05/28/2021 7:09 AM ET

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