

# **STORMWATER POLLUTION PREVENTION (SWPP) PLAN**

Prepared for

**MBTA RESERVOIR CARHOUSE  
400 CHESTNUT HILL AVENUE  
BROOKLINE, MASSACHUSETTS 02155-3336**

May 30, 2021

Prepared by



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Prepared for

**MBTA RESERVOIR CARHOUSE  
400 CHESTNUT HILL AVENUE  
BROOKLINE, MASSACHUSETTS 02445-4227**

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## **SWPP PLAN PREPARATION DATE:**

May 30, 2021

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**EXECUTIVE SUMMARY**

This Stormwater Pollution Prevention Plan (SWPP) Plan for the Massachusetts Bay Transportation Authority (MBTA) Reservoir Carhouse in Brookline, Massachusetts (referred to in this Plan as “the Facility”) meets the requirements of the United States Environmental Protection Agency (USEPA) Multi-Sector General Permit for Commonwealth of Massachusetts MAR050000. The Plan provides information on potential pollutant sources and Best Management Practices (BMPs) to minimize the potential for adverse impact to stormwater. This SWPP Plan is required for compliance with Federal and state laws and regulations.

The Clean Water Act (CWA) and associated U.S. Environmental Protection Agency (USEPA) and state regulations require permits for facilities that conduct specified regulated activities that may contaminate stormwater discharges. In the state of Massachusetts, primary responsibility for administering the stormwater pollution prevention program rests with the USEPA.

Federal regulation 40 CFR 122.26(b)(14) specifies which industrial facilities are potentially subject to Phase I of the National Pollutant Discharge Elimination System (NPDES) Stormwater Program. The definition uses either Standard Industrial Classification (SIC) code or narrative descriptions to characterize the activities into 11 categories. MBTA facilities with a SIC code of 4111, “Local and Suburban Transit,” are regulated under category “(viii) Transportation.” Under this category, only the portions of the facility that are either involved in vehicle maintenance (including vehicle and equipment fluid changes, mechanical repairs, parts cleaning, refinishing, painting and/or fueling, locomotive sanding, storage of vehicles and equipment waiting for repair or maintenance) and the storage of the related materials and waste materials (including fuel, batteries, tires, or oil) and equipment cleaning operations are considered and need permit coverage. Therefore, the Facility must obtain an industrial stormwater discharge permit; operate under a state-sponsored Industrial Stormwater Discharge General Permit, or complete and submit, if applicable, a stormwater No Exposure Certification (NEC).

The USEPA signed and issued the 2021 Multi-Sector General Permit (MSGP) for industrial stormwater discharges on January 15, 2021. The 2021 MSGP became effective on March 1, 2021 and replaced the 2015 MSGP. The USEPA issued a general National Pollutant Discharge Elimination System (NPDES) stormwater permit for industrial activities for Commonwealth of Massachusetts (NPDES Permit No. MAR053221). To apply for coverage under this general NPDES permit, the MBTA submitted a Notice of Intent (NOI) for the Facility to the USEPA. EPA requires an electronic submittal of the NOI using the USEPA’s NPDES eReporting Tool, NeT-MSGP, which is accessible through USEPA’s Central Data Exchange (CDX) at <https://cdxnodengn.epa.gov/net-msgp/action/login>.

Prior to the expiration of the current general permit, the MBTA submitted an NOI for the Facility to the USEPA in NeT and prepared this SWPP Plan to satisfy USEPA’s General Permit Number MAR050000. Copies of the current NOI form and general stormwater permit are included in Appendix A. Note that changes to information in the NOI (i.e., for all parameters, when benchmark monitoring or impaired waters monitoring is no longer required; or when 30-day follow-up monitoring is required because of a numeric effluent limit exceedance) must be addressed by submittal of a “Change NOI” in NeT. A copy of the Change NOI must be maintained in Appendix A.

To maintain compliance with the stormwater discharge regulations of 40 CFR 122.26 under the Clean Water Act, the following activities must be performed at the frequency indicated:

<b>INITIALLY</b>	<ul style="list-style-type: none"> <li>• Review Plan and sign the SWPP Plan Certification Statement (See Section 7.1).</li> <li>• Establish an SWPP Plan Implementation Team and assign responsibilities to ensure that the best management practices, inspections, and other requirements of the Plan will be implemented and maintained (See Section 1.4).</li> <li>• Post a sign to identify permit coverage (See Section 3.1)</li> <li>• Conduct SWPP training (See Section 3.11).</li> </ul>
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	<ul style="list-style-type: none"> <li>• Conduct an “Unauthorized Non-Stormwater Discharges” Assessment (See Section 2.2) and document findings on Form B.4 (See Appendix B).</li> </ul>
<b>MONTHLY</b>	<ul style="list-style-type: none"> <li>• Conduct inspections of discharge points, catch basins and control measures to observe evidence of spills, staining, corrosion, damage to equipment or containers and other conditions that could result in stormwater impact or noncompliance. Inspections are conducted and maintained electronically (See Section 4.1).</li> </ul>
<b>QUARTERLY</b>	<ul style="list-style-type: none"> <li>• Visually monitor stormwater discharges and record the observations as outlined on Form B.3, Quarterly Stormwater Discharge Quality Visual Assessment (See Appendix B).</li> <li>• Collect stormwater samples from the discharge of the Facility outfall as required by the stormwater permit for Indicator Monitoring. Submit the samples for laboratory analysis and review results against prior results (See Section 3.13).</li> </ul>
<b>ANNUALLY</b>	<ul style="list-style-type: none"> <li>• Conduct SWPP training and spill response-related training (for employees who may respond to spills and releases) for all personnel who engage in activities that may impact stormwater and document attendance. Document training on Form B.2, Employee Training Log (See Appendix B).</li> <li>• Collect stormwater samples from the discharge of the Facility stormwater outfall as required by the stormwater permit. Submit the samples for laboratory analysis. Submit the analytical results to the USEPA.</li> <li>• Submit an Annual Report to the USEPA.</li> <li>• Review and update the SWPP Plan. Document and review and evaluation on Form B.1: SWPP Plan Revision Log (See Appendix B). This includes changes to the SWPPP Team, emergency contact lists and phone numbers, and other changes. Maintain these records with the SWPP Plan.</li> </ul>
<b>AS NEEDED</b>	<ul style="list-style-type: none"> <li>• Implement and maintain all BMPs established in the SWPP Plan, presented in Section 3.</li> <li>• Conduct a non-stormwater discharge assessment. Document the findings on Form B.4, Non-Stormwater Discharge Monitoring/Assessment (See Appendix B).</li> <li>• Complete and maintain the spill discharge reporting log, Form B.2, List of Significant Spills or Leaks B.1, located in Appendix B of the Plan.</li> <li>• In the event of a spill or release, notify the appropriate state/federal/local agencies – see Section 3.7 and the Internal and External Contact Table.</li> <li>• Update the SWPPP whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants to waters of the State. Document changes on Form B.1, SWPP Plan Revision Log (See Appendix C).</li> <li>• Update Form A1, List of Significant Spills or Leaks (See Appendix B) and revise Section 4: Stormwater Control Measures within 14 calendar days of knowledge of a release equal to or in excess of a reportable quantity under 40 CFR 110.6, 117, 302.4, or 355, Appendix A.</li> <li>• Spill notification/investigation records will be completed and maintained as required (using Form A.1: Spill Discharge Reporting Form (See Appendix A).</li> <li>• Submit changes to information in the Notice of Intent (NOI) using a “Change NOI” in USEPA’s electronic National Pollutant Discharge Elimination System (NPDES) eReporting Tool (NeT) at <a href="http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-Multisector-General-Permit.cfm">http://water.epa.gov/polwaste/npdes/stormwater/Stormwater-eNOI-System-for-EPAs-Multisector-General-Permit.cfm</a>.</li> <li>• Submit a new NOI to the USEPA using NeT prior to expiration of the current General Permit (February 28, 2026). Note that some facilities may be required to submit an Endangered Species Act Criterion C Eligibly Form to the Agency at least 30 days prior to submittal of the NOI.</li> </ul>

Records related to the SWPPP must be kept with the SWPPP for a period of at least three years from the date that your coverage under this permit expires or is terminated.

# 1. FACILITY DESCRIPTION AND CONTACT INFORMATION

## 1.1 Facility Information

Name of Facility:	MBTA Reservoir Carhouse
Street:	400 Chestnut Hill Avenue
City, State, ZIP:	Brookline, Massachusetts 02445-4227
County or Similar Subdivision:	Norfolk
Permit Tracking Number:	NPDES Permit Number MAR053221
Primary SIC (Or 2-letter Activity) Code:	4111
Applicable sector and subsector:	P1
Latitude/Longitude:	
Latitude:	42.335611
Longitude:	-71.148386
Method for determination:	<input type="checkbox"/> Topographic Map <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Other (Google Earth Pro and www.gps-coordinates.net)
Horizontal Reference Datum:	<input checked="" type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input type="checkbox"/> WGS 84
Indian Reservation?	This Facility is not located in Indian Country
Federal Operator of the Facility?	The Facility Operator is not a department, agency or instrumentality of the executive, legislative and judicial branches of the Federal government of the United States
Estimated area of industrial activity at site exposed to stormwater:	3.7 acres (estimated)

## 1.2 Facility Discharge Information

Does Facility discharge stormwater into a municipal separate storm sewer system (MS4):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If "Yes," name of MS4 Operator:	The City of Brookline Water and Sewer Department and Boston Water and Sewer Commission (BWSC)
Name(s) of surface water(s) that receive stormwater from Facility:	Village Creek to Leverett Pond to Muddy River (MA72-11)
Number of outfalls	One (Outfall 001)
Are any receiving waters impaired?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Name of impaired receiving water(s):	Muddy River
Identify pollutant(s) causing impairment(s):	Bottom Deposits, (Flow Regime Modification, Non-Native Aquatic Plants, Physical substrate habitat alterations, DDT in Fish Tissue, Dissolved Oxygen, Escherichia Coli (E. Coli), Odor, Oil and Grease, PCBs In Fish Tissue, Phosphorus, Total, Turbidity, Unspecified Metals in Sediment
Has a Total Maximum Daily Load (TMDL) been completed for any of the identified pollutants?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, list the TMDL pollutants	E. Coli
Pollutants which require annual monitoring	<ul style="list-style-type: none"> <li>• Phosphorus (Total)</li> <li>• Nitrogen (Total)</li> <li>• Oil And Grease (Total Recoverable)</li> <li>• Turbidity</li> </ul>
Which pollutants may be present in Facility stormwater discharges?	Phosphorus, Oil and Grease, and Turbidity
Does Facility discharge stormwater into a Tier 2, Tier 2.5 or Tier 3 receiving water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are any stormwater discharges subject to effluent limitation guidelines (ELGs)?	No
If "Yes," which guidelines apply?	NA



### 1.3 Contact Information/Responsible Parties

<b>Facility Operator Name:</b>	<b>MBTA</b>				
Facility Address:	400 Chestnut Hill Avenue				
City:	Brookline	State:	MA	Zip:	02445-4227
Telephone:	(617) 222-5885	E-Mail:	Environmental@mbta.com		
<b>Facility Owner Name:</b>	<b>MBTA</b>				
Operator Address:	10 Park Plaza - Room 6720				
City:	Boston	State:	MA	Zip:	02116
Telephone:	(617) 222-4376	E-Mail:	Environmental@mbta.com		
SWPP Plan Contact Name (Primary):	Michael Bianchi				
Telephone:	(617) 222-5885	E-Mail:	mbianchi@mbta.com		
SWPP Plan Contact Name (Alternate):	Cosette DeCoste				
Telephone:	(617) 780-4056	E-Mail:	cdecoste@mbta.com		

### 1.4 Stormwater Pollution Prevention Team

The SWPP Team is responsible for overseeing development of and any modifications to the SWPP Plan, implementing and maintaining control measures/BMPs, and taking corrective actions when required. Each SWPP Team member must have ready access to the 2021 MSGP, the most updated copy of the facility SWPP Plan, and other relevant documents. Facility staff members are assigned the following responsibilities:

- The Facility Manager is responsible for overall facility compliance, including document and records management, stormwater inspection, hazardous material storage, mobile fueling operations, and tank maintenance, coordination of plan development and updates, plan implementation, and designation of team members
- The Facility Supervisor assists the Facility Manager with Plan implementation and conducts inspections, oversees preventative maintenance and good housekeeping, updates program, recommends changes in operations, equipment, layout, and use of materials, and prepares reports
- Designated Maintenance Personnel are responsible for practicing preventative maintenance and good housekeeping measures, assigning with BMPs implementation and cleanup procedures, and performing required inspections and repairs

A list of SWPP Team member names is provided in the following table:

TABLE 1.1: SWPP TEAM MEMBERS	
Team Member Names	Responsibilities
Michael Bianchi	Reporting upset conditions observed on-site
Cosette DeCoste Christine Lentini Mark Lombardo	Conducting monthly facility compliance inspections and assisting in coordinating/conducting quarterly and annual facility stormwater inspections
Terra Environmental	Conduct quarterly visual stormwater inspections and effluent sampling

### 1.5 Site / Facility Description

The Facility is located at 400 Chestnut Hill Avenue in Brookline, Massachusetts (near Cleveland Circle). Refer to Figure 1, “Facility Aerial Map” and Figure 2, “Facility Location Map” for the general site location. The Facility layout, approximate site boundary and abutters are shown in Figure 3, “Site Map.” The Facility is located on approximately 4.5 acres of land and is abutted to the north by residential and commercial buildings on Beacon Street; to the south by the Riverside Station and single-family homes; to the east by apartments/condominiums along Strathmore Road; and Chestnut Hill Avenue, commercial properties and a ballpark to the west. The Chestnut Hill Reservoir is located 0.2 miles west of the Facility.

The Facility on-site features and improvements include:

- Two-story Carhouse Building
- Yardmaster Hut and Operator’s Lobby, located north of the Building
- Emergency Generator Shed and Electrical Sub-Station, located near the southeast corner of the Facility
- Miscellaneous trailers and storage containers east of the Carhouse
- A small employee parking lot west of the Building and a larger parking area east of the Building
- A small area that extends south and east of the Substation that is used for additional dry storage

The 40,000-square foot Carhouse Building is located near the center of the 4.5-acre property. The Building contains three (3) track inspection pits, two lift areas for track and truck repair and a parts storage area. The north side of the building is used for offices and parts storage. A separate train Wash Bay is attached to the south side of the Building. Train tracks run parallel to the north and south sides of the Building and can loop to either side around via connecting tacks located east of the employee parking area.

The Facility is connected to City Water and the MWRA sewer systems. The Carhouse is heated by oil stored in a 6,000-gallon underground storage tank (UST) located southeast of the Building. The Operator’s Lobby is also heated by oil in four 275-gallon aboveground storage tanks (ASTs).

Note that the Facility is not located within ½ mile of water supply project areas, Areas of Critical Environmental Concerns (ACECs) or Habitats for Species of Special Concern or Threatened or Endangered Species.

### 1.6 Site Drainage

The topography of the facility is sloped from Chestnut Hill Avenue to the west employee parking lot, at which point the topography levels off and becomes relatively flat. The entire surface, which is either paved or consists of rail track ballast, is graded to direct stormwater runoff to on-site storm drains. Stormwater, collected by a series of storm drains located throughout the asphalt-paved areas, is directed into a subsurface drain line. The drain line enters the BWSC 76-inch storm drain culvert through a catch basin located at the east end of the Facility. The drain line’s point of entry in the catch basin is several feet below grade and at least ten feet above the actual

culvert. Stormwater in the culvert flows to the east. According to Marc Besio, Engineer for the Brookline Water and Sewer Department (617-730-2170), the stormwater enters the municipal separate storm sewer system (MS4) and travels east of the Facility, enters Village Brook, flowing into Leverett Pond and ultimately discharging into the Muddy River, located more than two miles east of the Facility.

**Outfall 001**, located near the Facility entrance on the east side of the Site is the final sampling point prior to discharging stormwater runoff off site to the MS4 on Strathmore Road. The stormwater drainage area, referred to as Discharge Area 001, consists of approximately 3.7 acre of impervious surface. This outfall, which is a stormwater catch basin, is identified for the purpose of complying with the permit inspection and monitoring requirements because the connections of the underground stormwater drainage system to the MS4 are not accessible or are unsuitable for collecting stormwater samples that are representative of the site.

## **1.7 General Site Location Map**

A Site Location Map and Aerial Map are included in Figures 1 and 2 of the SWPP Plan.

## **1.8 Site Map**

A Site Plan is included in Figure 3 of the SWPP Plan.



## 2. POTENTIAL POLLUTANT SOURCES

The Facility is a maintenance facility that performs running or light repairs (those that can be completed within 24 hours of vehicle arrival). The Facility has the capability to repair emergency vehicle trucks, change out HVAC units, replace windows, and perform body repairs. Vehicles are swept every night while more intensive cleaning, such as washing the floors or window cleaning is done in accordance with a cleaning contract that the MBTA has with an outside vendor.

Preventative maintenance inspections are either mileage or time based. The preventative maintenance activities include lubrication, calibration adjustments, and replacement of air filters, brake pads/shows, and pantograph carbon strips. Most activities are conducted inside the Carhouse. Note that stormwater is not impacted by vehicle cleaning activities. These activities are conducted in an enclosed Wash Bay and the water is discharged to an oil water separator and treatment system, which is connected to the MWRA sewer system. Vehicle fueling is not conducted at the Facility, as the Green Line trains are electric powered and emergency vehicle trucks serviced on site are fueled at other MBTA locations.

.This Section describes all Facility areas where industrial materials or activities are exposed to stormwater:

- Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by products, final products, and waste products.
- Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal or conveyance of any raw material, intermediate product, final product or waste product.
- For structures located in areas of industrial activity, the structures themselves are potential sources of pollutants. This could occur, for example, when metals such as aluminum or copper are leached from the structures as a result of acid rain.

For each area identified, this section identifies industrial activities, potential pollutants, spills and leaks, unauthorized non-stormwater discharges, salt storage, stormwater sampling data and descriptions of control measures.

### 2.1 Potential Pollutants Associated with Industrial Activity or Spills / Leaks

Stormwater runoff from the Facility discharges to an MS4 stormwater system. Control measures have been implemented at the facility to minimize pollutant discharges to stormwater. A pollutant is defined by the USEPA as dredged spoil, solid waste, filter backwash, sewage, garbage, sewage sludge, chemical wastes, biological materials, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water.

Table 1 (below) describes the industrial activities and materials that may be exposed to stormwater, areas with a potential for spills and/or leaks to contribute to stormwater pollution, associated pollutants, a history of past leaks and/or spills associated with these activities/areas and the potentially impacted outfall.

The Facility has not experienced a significant spill of oil or hazardous materials within the past three (3) years in areas that are exposed to stormwater or that otherwise drain to a stormwater conveyance system. Note that 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.

Significant spills or releases will be documented in Appendix A of this Plan on Form A.1, “List of Significant Spills or Leaks.” This table and any associated spill forms/information will be kept with the SWPP Plan.

TABLE 2.1: INDUSTRIAL ACTIVITIES WITH A POTENTIAL FOR EXPOSURE TO STORMWATER							
Materials, Activities or Structures	Associated Pollutants	Likelihood of Stormwater Contact			Past Significant Spill or Leak		Potential Outfall Impacted
		<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Solid Waste Dumpster	Oil, Particulate	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Metal Parts Storage (Covered)	Oil, Metals	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Vehicle Storage Areas	Diesel, Gasoline, Oil, Transmission Fluid, Grease	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Fuel UST and Loading/Unloading Activities	Oil	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Interior Facility Heating Oil / Vehicle Maintenance ASTs and Loading/Unloading Activities	Oil	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Interior Vehicle Washing, using soaps/detergents	Soap/Detergents and Oil	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input checked="" type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001
Miscellaneous Exterior Hazmat Storage	Oil, Gasoline	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	001

## 2.2 Unauthorized Non-Stormwater Discharges Documentation

Discharges of wash water from vehicle, equipment or tank cleaning operations is specifically prohibited for Section P Facilities. These types of discharges must be covered under an individual National Pollution Discharge Elimination System (NPDES) permit or discharged to the sewer system under a sewer use permit. Other options include wash water recycling or containment and off-site disposal. Facility wash water is generated from exterior washing of busses in the enclosed Wash Alley. The rinse water from the system is collected in trench drains and sent to the oil/water separator, prior to being discharged to the municipal sewer system under the MWRA sewer use permit. Wash water is also generated from the interior vehicle washing which is performed inside the maintenance building. The wash water discharges to MWRA and does not come along with stormwater.

There must be no unauthorized stormwater discharges from the Facility. Stormwater permit outfalls must be evaluated and potentially tested for the presence of non-stormwater discharges. As a result, the Facility must perform and document an evaluation of its outfall at the facility during dry weather conditions.

A non-stormwater discharge assessment can be performed by conducting a visual assessment of Facility outfalls during dry weather conditions and to document the observations. As a rule, the discharge points should be dry during a period of extended dry weather. Note that additional testing (such as dye testing) may be necessary to verify the origin of any non-stormwater discharge observed in the stormwater conveyance system during dry weather.

Several non-stormwater discharges are allowable under the stormwater permit program in Massachusetts. Authorized non-storm discharges include the following:

- Discharges from emergency/unplanned fire-fighting activities
- Fire hydrant flushings
- Potable water, including water line flushings
- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids
- Irrigation drainage and landscaping water provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling
- Pavement wash waters where no detergents or hazardous cleaning products are used, and the wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities, or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants
- Routine external building washdown/power wash water that does not use detergents or hazardous cleaning products
- Uncontaminated ground water or spring water
- Foundation or footing drains where flows are not contaminated with process materials
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower

The above discharges are either not applicable to the Facility or occur infrequently.

To document that the Facility has no unauthorized stormwater discharges, an evaluation must be documented on Form B.4, Non-Stormwater Discharge Monitoring/Assessment. Any identified non-stormwater discharge (other than the authorized discharges mentioned above) observed during this evaluation must be corrected and eliminated.

## **2.3 Salt**

There are no bulk salt storage piles at the Facility. Although salt is used at the Facility for deicing during the winter months, it is managed in small wooden containment units on the exterior of the Facility to eliminate any stormwater pollution resulting from on-site storage.

## **2.4 Sampling Data Summary**

Sector-specific stormwater sampling/monitoring, such as numeric effluent limitation guidelines (ELGs) or water quality-based effluent limitations (benchmark sampling), is not required for Sector P Facilities. However, the 2021 MSGP requires Indicator Monitoring (IM) on a quarterly basis for pH, Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS). In addition, stormwater from the Facility discharges via the MS4 to Village Brook, flowing into Leverett Pond and ultimately discharging into the Muddy River, which is designated as “water quality impaired” by the MassDEP. For these monitoring requirements, refer to Sections 3.15 and Sections 3.16, respectively. Also refer to Section 4.4 for general sampling requirements.

### 3. STORMWATER CONTROL MEASURES

In accordance with Part 2 of the Permit, Facilities must design, install and implement stormwater control measures to (1) minimize exposure, (2) comply with applicable water quality-based benchmarks or effluent limits and (3) meet applicable non-numeric effluent limits. Note that Criterion #2 is not applicable because there are no benchmarks or effluent limits for Sector P Facilities.

#### 3.1 Signage to Identify Permit Coverage

A sign must be posted to communicate to the public that the Facility has permit coverage under the 2021 MSGP. The sign must be in a publicly accessible location, in close proximity to the Facility containing a font large enough to be viewed from a public right-of-way. The sign must also be periodically reviewed and maintained to ensure that it remains legible, visible, and factually correct. At minimum, the sign must include:

- The following statement: “[Name of facility] is permitted for industrial stormwater discharges under the U.S. EPA’s Multi-Sector General Permit (MSGP)”;
- The Facility NPDES ID number;
- A contact phone number for obtaining additional facility information
- An1.3.5.4 One of the following:
  - (a) The Uniform Resource Locator (URL) for the SWPPP (if available), and the following statement: “To report observed indicators of stormwater pollution, contact (optional: include facility point of contact and] EPA at: [include the applicable MSGP Regional Office contact information found at <https://www.epa.gov/npdes/contact-us-stormwater#regional>) or
  - (b) The following statement: “To obtain the Stormwater Pollution Prevention Plan (SWPPP) for this facility or to report observed indicators of stormwater pollution, contact [optional: include facility point of contact and] EPA at (include the applicable MSGP Regional Office contact information found at <https://www.epa.gov/npdes/contact-us-stormwater#regional>)

Note that public signage is not required where other laws or local ordinances prohibit such signage, in which case the Facility SWPPP would provide a brief explanation for why a sign could not be posted and a reference to the law or ordinance.

The Facility sign is located at the entrance to the Facility and is visible from Strathmore Road.

#### 3.2 Non-Numeric Technology-Based Effluent Limits

The objectives of the Facility stormwater control measures are to minimize exposure and comply with other non-numeric technology-based effluent limits. Non-numeric technology-based effluent limits include the following:

- Minimize exposure to stormwater
- Implement good housekeeping measures
- Conduct routine preventative maintenance and inspections
- Provide spill prevention and response procedures
- Implement erosion and sediment controls
- Manage runoff
- Manage salt storage piles or piles containing salt
- Conduct employee training
- Identify non-stormwater discharges
- Control dust generation and vehicle tracking of materials
- Comply with numeric effluent limitations



Stormwater control measures can be both structural and non-structural. Most of the stormwater control measures implemented at the Facility are non-structural and consist of Best Management Practices (BMPs) described below.

### **3.3 Minimize Exposure**

The following exposure control measures are in place at the Facility to minimize the potential for stormwater pollution:

- Petroleum products, chemicals, products and wastes (hazardous and non-hazardous) are stored either in double-walled aboveground storage tanks (ASTs), within an exterior enclosure, or stored inside the Facility. These products, chemicals or minor spills resulting from use would not be exposed to stormwater
- All maintenance/repair operations are performed indoors where spills and releases would be directed to floor drains that are connected to oil/water separators, which discharge to the sanitary sewer.

### **3.4 Good Housekeeping**

The following good housekeeping control measures include the following BMPs:

- Petroleum products, chemicals, and waste containers are kept closed when not in use
- Debris and trash observed around the Facility is removed as soon as possible
- Spill kits are accessible and near areas where releases could occur, such as product loading and unloading areas, outside petroleum and chemical storage areas and the bus parking area
- Materials are stored in the original purchased containers that are chemically compatible, Steel containers, if stored temporarily outside, are kept on pallets to prevent corrosion (which can result when containers come into contact with ground moisture)

### **3.5 Maintenance**

The following maintenance control measures and BMPs are conducted during routine inspections:

- Monthly inspections are performed by designated Facility personnel to identify potential spills and other conditions that have the potential for stormwater exposure. The Environmental Compliance Officer is responsible for verifying that the inspections are carried out by reviewing the completed inspection forms
- Quarterly SWPP Plan inspections are performed by a SWPP Team member or designee to observe the effectiveness of the control measures

### **3.6 Spill Prevention Measures**

In addition to the BMPs described above, additional spill prevention measures have been implemented for aboveground storage tanks (ASTs) and USTs stored outside the Facility, which have the greatest potential to impact stormwater in the event of a spill or release.

Facility ASTs and USTs spill prevention measures include the following:

- Monthly visual inspections are performed on exposed piping systems

Product delivery, loading and unloading of bulk petroleum products, chemicals and wastes can result in significant spills and releases to stormwater and outfall in the event of a transfer hose or pump failure. Additional measures taken to minimize and/or prevent stormwater impact include:

- Standard procedure requires that the oil delivery trucks have automatic shut-off valves
- During deliveries, the delivery truck operator must use dry shut-off valves or use a pail to catch drips when breaking hose connections
- All delivery drivers must use appropriate spill prevention/containment procedures, including the placement of absorbent pads and 5-gallon buckets under fill pipes and vent pipes before off-loading begins

### **3.7 Spill Response Procedures**

Spill absorbent pads and other response equipment are maintained at the Facility. Additional as-needed spill equipment is available. A variety of spill response and emergency equipment for containment and cleanup of oil or hazardous material spills include, but are not limited to the following:

- Containment booms, dikes, or pillows
- Spark-proof shovel
- Buckets/drums
- Reeled caution tape
- Chemical splash goggles
- Protective coveralls and aprons
- Gloves
- Vinyl overboots
- Barricades with warning signs ("Danger Chemical Spill")
- Hazardous material labels
- Guidebook/instruction manual

During actual spill events involving petroleum products, chemicals and waste materials, the appropriate response shall be based on spill volume estimates, the severity of the material (the physical/chemical risk involved), the location/impact of the spill, and the tools/resources available. Communication and coordination is essential, not only among MBTA personnel, but with outside parties who may be called in to assist in the response or control the spill. Spill response procedures are required. MBTA personnel will be knowledgeable of the location of the nearest communication system (i.e., telephone, cellular telephone, or walkie-talkie).

Any person who observes a spill or leak will immediately notify the Operations Control Center with information on the nature and location of the spill. Operations Control Center, acting as the Primary Emergency Coordinator, will implement oversight responsibilities and established notification protocols. Note that in the event that the Operations Control Center is unavailable, an Alternate Emergency Coordinator will be called.

Upon arrival, the Emergency Coordinator will immediately assess the spill. Based on the initial assessment, the Emergency Coordinator will:

- Move all non-emergency response personnel away from the spill and isolate/secure the incident area
- Assess the need for evacuation and implement evacuation procedures (if necessary)
- Contact external contacts with details of the initial assessment and a spill contractor, as necessary
- Determine the need for release notification and notify the required authorities within the required time frame as determined necessary
- Complete all containment and cleanup activities, serving as a liaison with the spill contractor
- Assign other necessary duties, based on an assessment of the incident

A table of internal and external emergency contacts is provided below:

<b>TABLE 3.1: INTERNAL AND EXTERNAL CONTACTS LIST</b>			
<b>Contact</b>	<b>Location</b>	<b>Telephone</b>	<b>When to Contact</b>
<b>Internal Contacts</b>			
SPCC/Emergency Coordinator – Primary (Operations Control Center)	High Street Boston, MA	(617) 222-5278	Immediately for any oil spill that poses an emergency or potential emergency condition
SPCC/Emergency Coordinator – Alternate	High Street Boston, MA	(617) 222-5608	Immediately for any oil spill that poses an emergency or potential emergency condition
MBTA Police	240 Southamptn Street Boston, MA	(617) 222-1212	Immediately for any oil spill that poses an emergency or potential emergency condition
MBTA Environmental Department	10 Park Plaza Boston, MA	(617) 222-4376 Environmental Hotline	Immediately for any oil spill that poses an emergency or potential emergency condition
<b>External Contacts</b>			
National Response Center	NA	(800) 424-8802	Immediately for any federal reportable quantity of oil
MassDEP Emergency Response Section	Northeast Regional Office (NERO) 205B Lowell Street Wilmington, MA 01887	(888) 304-1133	Immediately, when an oil creates an oily sheen on water or within two (2) hours of a spill of ten (10) gallons or greater
Massachusetts Water Resources Authority (MWRA) Sewer Operations Control Center	2 Griffin Way Boston, MA 02150	(617) 305-5940 (24-Hour Hotline)	Immediately for releases to the MWRA system
Fire / Police Department		911	Immediately
Ambulance		911	In the event of non-minor injuries

All reportable spills and releases of significant materials will be documented and records retained as part of the SWPP Plan. Spill reports will include the date, time and location of the incident, estimated volumes and contents of the spill/release, weather conditions, response procedures, parties notified and any recommended revisions to the BMP program, operating procedures and/or equipment needed to prevent recurrence.

### 3.8 Erosion and Sediment Control

Catch basins are inspected on a quarterly basis during visual assessments and routine inspections for debris, sediment buildup or any evidence of blockage. If found, corrective measures will be implemented in accordance with procedures described in Section 6 of the Plan.

### 3.9 Management Runoff

Paved areas of the Facility are graded to direct runoff into catch basins that connect to the stormwater drainage system. This system connects to the MS4, which travels east of the Facility, enters Village Brook, flowing into Leverett Pond and ultimately discharging into the Muddy River.

There are no salt storage piles or bulk storage of salt at the Facility. See Section 2.4.

### 3.10 Dust Generation and Vehicle Tracking of Industrial Materials

Train parking, vehicle traffic and Facility activities occur on paved portions of the site or inside the Facility; therefore, dust generation and tracking is nominal.

### 3.11 Employee Training

Training is required for Stormwater Pollution Prevention team members identified in Section 1.4 and those Facility personnel who engage in activities that may impact stormwater. These individuals will receive initial and annual refresher training as needed in the area of stormwater pollution prevention and response. The Facility Manager is responsible for ensuring that the stormwater training is conducted.

The initial and annual refresher training must include the following information:

- An overview and contents of the SWPP Plan
- Oil and chemical storage locations
- Spill response procedures, good housekeeping, maintenance requirements, and material management practices
- The location of all controls on the site required by this permit, and how they are to be maintained
- Monitoring and inspections requirements
- Emergency and spill response procedures
- Reporting and documentation

See Form C.2, the Employee Training Log, located in Appendix C of the Plan.

### 3.12 Sector-Specific Non-Numeric Effluent Limits

The non-numeric or technology-based effluent limits for Sector P Facilities include the following (see Part 8, Subpart P of the 2021 MSGP):

- Implement BMPs and control measures described in Sections 3.2 through 3.5 to minimize stormwater exposure during Facility operations presented in Table 2.1
- Provide employee stormwater training at least once a year

### 3.13 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

Sector P Facilities are not subject to numeric effluent limitation guidelines (ELGs).

### 3.14 Water Quality-Based Effluent Limitations

There are no water quality-based effluent limitations (benchmark sampling) for Sector P Facilities.

### 3.15 Indicator Monitoring

All Sector P Facilities are required to conduct indicator monitoring (IM) of stormwater discharges for three the following parameters:

- pH (Method Number 150.1)
- Total Suspended Solids (Method Number 160.2/2540D)
- Chemical Oxygen Demand (Method Number 5220D)

Note that IM is “report-only” and is neither benchmark monitoring nor an effluent limitation. Indicator monitoring parameters do not have thresholds or baseline values for comparison, nor do they necessarily trigger follow-up action. The data is intended to be used as a baseline and to help identify any issues before they become potential water quality problems. Evaluating the IM data over time for fluctuating values or unusual trends can help determine if any additional best management practices or revisions to the SWPPP are necessary. It is important to note that IM is a permit condition and failure to conduct IM is a permit violation. Additionally, the requirement to control stormwater discharge as necessary such that the receiving water of the United States will meet applicable water quality standards still applies.

Stormwater discharge IM for pH, TSS, and COD must be conducted each quarter, beginning in the first full quarter of permit coverage. Samples must be analyzed consistent with 40 CFR Part 136 analytical methods.

Note that IM for 16 individual priority pollutant Polycyclic Aromatic Hydrocarbons (PAH) is also a requirement for Sector P Facilities with stormwater discharges from paved surfaces that are sealed or re-sealed with coal-tar sealcoat where industrial activities are located. This requirement does not apply to the Facility.

### 3.16 Water Quality Standards

The Facility ultimately discharges stormwater to the Muddy River, which is designated as “water quality impaired” by the MassDEP. Annual stormwater monitoring for the following water quality parameters are required:

- Phosphorus, Total (Method Number 365. 1; 365.2; 365. 3)
- Nitrogen, Total (Method Number 351. 1; 351.2; 353. 2)
- Oil and Grease, Total Recoverable (Method Number 1664 Rev. A or B)
- Turbidity (Method Number 180.1)

Monitoring is required annually in the first year of permit coverage and again in the fourth year of permit coverage as follows, unless a pollutant is detected causing an impairment, in which case annual monitoring must continue. The first annual sample must be taken in the first year of permit coverage, which begins in the first full quarter following May 30, 2021. All pollutants causing impairments must be monitored, using a standard analytical method, provided one exists (see 40 CFR Part 136), once at each discharge point (except substantially identical discharge points) discharging stormwater to impaired waters without an EPA-approved or established TMDL.

- If monitoring results indicate the monitored pollutant is not detected (or is within the acceptable range for a given parameter for the waterbody to meet its designated use), monitoring for that pollutant can be discontinued for the next two years; however, monitoring for that pollutant must resume in year four of permit coverage.
- If monitoring results indicate that the monitored pollutant is detected in your stormwater discharge (or is outside the acceptable range for a given parameter). Monitoring must be continued until no longer detected through year four of permit coverage

Annual monitoring must resume in your fourth year of permit coverage for another year for a sub-set of parameters monitored for in the first monitoring year. In the fourth year of permit, monitoring must be conducted for all pollutants causing impairment(s) that are associated with your industrial activity.

## 4. SCHEDULES AND PROCEDURES FOR MONITORING

This Section provides information on monthly facility inspections, quarterly visual stormwater assessments, quarterly site inspections, corrective actions and recordkeeping.

### 4.1 Monthly Facility Compliance Inspections

Monthly inspections are conducted by designated MBTA personnel to observe evidence of spills, staining, corrosion, damage to equipment or containers and other conditions that could result in environmental impact or noncompliance. These inspections also serve to observe the implementation of stormwater BMPs and document maintenance or operational deficiencies in the following areas:

- Areas where industrial materials or activities are exposed to stormwater
- Areas identified in the Plan and those that are potential pollutant sources identified in Table 2.1
- Areas where spills and leaks have occurred in the past three years
- Discharge points and catch basins
- Control measures (See Sections 3.2 through 3.5)
- Offsite 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

In addition to the monthly inspections, MassDEP hazardous waste regulations (310 CMR 30.0000) require Large Quantity Generators (LQGs) and Small Quantity Generators (SQGs) of hazardous waste and/or waste oil to conduct weekly inspections of containers and accumulation areas. The purpose of these inspections is to observe the condition and management of containers, verify that proper signage and labeling is in place and to ensure there is adequate spill containment materials nearby.

Note that the results of these inspections are conducted and uploaded electronically. As such, a hard-copy inspection checklist is not included in the Plan.

### 4.2 Quarterly Visual Assessment of Stormwater Discharges

During normal daylight Facility operating hours, a member of the Facility SWPP Team or designee must perform a quarterly visual assessment of its stormwater discharges. The facility is required to perform and document a visual examination of the stormwater discharged from Facility Outfall 001 on a quarterly basis (i.e., four times per year) during a storm event. The location of the outfall is shown on Figure 3, Site Plan. Note that the outfall is accessed by a stormwater catch basin (the last catch basin that all on-site stormwater catch basins flow into, prior to discharge to the municipal MS4 system), located on the southeast portion of the Site. The assessments must be conducted once in each of the following three-month periods: January through March, April through June, July through September, and October through December.

Stormwater should be collected in a clear clean sample containers (or clear ziplock bags), and the sample should be visually inspected for observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators or stormwater pollution. The observations must be documented on Form B.3 in Appendix B, and the completed forms should be maintained on-site in the SWPP Plan.

Samples must be collected from a measurable storm event that produces an actual discharge and that is preceded by at least 72 hours in which no stormwater discharge has occurred. Sampling should begin within 30 minutes of a storm event discharge. If it is not possible to collect the sample within the first 30 minutes of a storm event discharge, the sample must be collected as soon as practicable. In the case of snowmelt, the motoring must be performed at any time that a measurable discharge occurs.

Corrective action must be implemented to address any unauthorized discharges or lack of BMP implementation/maintenance identified during a visual assessment. Corrective action documentation must be promptly initiated and corrective action completed within 14 days of the inspection.

### **4.3 Monitoring**

The stormwater from the Facility discharges via the MS4 to the Muddy River (by way of the Village Brook and Leverett Pond), which has been identified by MassDEP as impaired for Phosphorus, Nitrogen, Oil and Grease, and Turbidity. As such, monitoring for this pollutant is required during one of the quarterly monitoring events each year (i.e. once per year). In addition, IM monitoring for pH, Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) is required quarterly.

The stormwater discharge from Outfall 001 must be sampled and analyzed annually during a representative storm event. A representative storm event is one that produces an actual discharge and that is preceded by at least 72 hours (three full days) in which no stormwater discharge has occurred. Sampling should begin within 30 minutes of a qualifying storm event discharge (greater than 0.1 inches of rain). If it is not possible to collect the sample within the first 30 minutes of a storm event discharge, the sample must be collected as soon as practicable. In the case of snowmelt, the monitoring must be performed at any time that a measurable discharge occurs.

Arrangements must be made with a laboratory in advance of sampling. Sampling containers provided by the laboratory must be used for collecting samples. The sampling containers must be appropriately labeled and transported on ice to the laboratory with a completed chain-of-custody form. Since some stormwater monitoring parameters have short holding times, the samples must be sent to the laboratory for analysis as soon as possible. Required analytical parameters, sampling frequency, and holding times are included in the following table:



<b>Table 4.1: ANALYTICAL PARAMETERS FOR STORMWATER MONITORING</b>				
<i>Monitoring and Sample Location</i>	<i>Parameter (units)</i>	<i>Schedule</i>	<i>Sample Type</i>	<i>Holding Time</i>
<b>Indicator Monitoring</b> Outfall 001	pH	Quarterly	Grab	ASAP (preserved with ice)
	Chemical Oxygen Demand (COD)			28 days (preserved with H <sub>2</sub> SO <sub>4</sub> to pH<2 and ice)
	Total Suspended Solids (TSS)			7 days (preserved with ice)
<b>Annual Monitoring</b> Outfall 001	Nitrogen, Total	Annually	Grab	28 days (preserved with H <sub>2</sub> SO <sub>4</sub> to pH < 2 and ice)
	Phosphorus, Total			28 days (preserved with H <sub>2</sub> SO <sub>4</sub> to pH < 2 and ice)
	Oil and Grease, Total Recoverable			28 days (preserved with HCl or H <sub>2</sub> SO <sub>4</sub> to pH < 2 and ice)
	Turbidity			48 hours

While Indicator monitoring is for internal use only, the analytical results of annual monitoring must be submitted to the USEPA using the agency’s Net Discharge Monitoring Report (DMR) system (available at [www.epa.gov/netdmr](http://www.epa.gov/netdmr)) no later than 30 days after receiving the laboratory results. The parameters required to be monitored and the frequency should be prepopulated on the electronic DMR form based on the information provided by the NOI included in Appendix C.

#### 4.4 Recordkeeping

All inspections will be documented and include at a minimum, the following information:

- Date of inspection
- Name of inspector
- Areas inspected
- Deficiencies or problems identified and individuals notified
- Corrective actions to be taken

Completed inspection forms must be signed by an SWPP Team Member. A follow-up report may also be completed by a SWPP Team Member to document and track the completion of the corrective action(s), if required. Copies of the SWPP Plan (including any modifications made during the term of a permit), inspection records, corrective actions, all required reports and certifications, and records of all monitoring data must be kept for a period of at least three years after the permit expires or is terminated.



## 5. DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

The following is a description of the immediate actions to be taken by facility personnel in the event of a discharge to navigable waters or adjoining shorelines.

### 5.1 Documentation Regarding Endangered Species

The MBTA evaluated for the potential effects of stormwater discharges and discharge-related activities on endangered and threatened species and critical habitat. A report generated by the U.S. Fish and Wildlife Service (FWS) Information, Planning, and Consultation (IPaC) System that documents the action area and the query results is included in Appendix E. In addition, the MBTA has reviewed species and critical habitat information on the National Marine Fisheries Service (NMFS) website.

The research identified the potential for endangered or threatened species or their critical habitat in the action area (Northern Long-eared Bat). The MBTA Reservoir Maintenance Facility meets Criterion C Eligibility Requirements of the MSGP since there are no discharge-related activities planned to occur during permit coverage that could adversely affect this federally-listed endangered species or its critical habitat in the action area. Documentation from the IPaC System, which confirms Criterion C Eligibility Requirements is included in Appendix C.

### 5.2 Documentation Regarding Historic Properties

Section 106 of the National Historic Preservation Act (NHPA) requires Federal agencies to take into account the effects of Federal “undertakings”, such as the issuance of this permit, on historic properties that are either listed or eligible for listing on the National Register of Historic Places. The facility meets the eligibility requirements for Criterion A of the MSGP, which states “There is no potential of an adverse effect on historic properties because there will be no new subsurface control measures (which includes stormwater conveyances) constructed or installed.”

## 6. CORRECTIVE ACTIONS

If a condition of non-compliance is identified during site inspections, stormwater assessment or monitoring activities, the condition must be identified and documented within 24 hours. These conditions include the following:

- Unauthorized discharges
- Leaks, spills or releases
- Control measures or BMPs that are not effective for preventing stormwater discharges
- Control measures that are not operated or maintained properly
- BMPs that are not being implemented

Any corrective action required to address non-compliance issues must be identified and documented within 14 days of the discovery of the non-compliance condition. Corrective actions may include revisions to the SWPP Plan and implementation of new stormwater management controls. Ideally, implementation of the correction(s) required to bring the Facility into compliance will be completed before the next qualifying stormwater event (or as soon as practicable). All revisions to the SWPP Plan will be recording in Form B.1: SWPP Plan Revision Log, located in Appendix B of the Plan.



## 7. SWPP PLAN CERTIFICATION

It is the policy of the MBTA to conduct operations at its Facility in an environmentally safe and responsible manner. This policy is intended to be implemented through compliance with environmental regulations, an active industrial hygiene and safety program, well-designed and maintained facilities, trained employees and detailed pollution prevention and emergency response planning. As such, the MBTA is committed to complying with the terms and conditions outlined and specific by the 2021 MSGP for Stormwater Discharges Associated with Industrial Activities, to which it is subject.

The goal of this SWPP Plan is to minimize the potential for pollution from Facility stormwater discharges from entering surface water by minimizing the pollutants contained in stormwater discharges. This SWPP Plan describes the systems to be used to achieve this goal. It is the responsibility of the Managers, Supervisors, employees, contractors, and emergency responders to be familiar with the SWPP Plan, to use the systems described in it, and in the event of an incident, to implement the appropriate response and notification procedures.

### 7.1 Certification Statement

The signature below constitutes MBTA Facility Management, Eligibility, and Non-Stormwater regulations and the 2021 USEPA NPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (MSGP).

## SWPP PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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 contained 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.

Name: Michael Bianchi Title: Superintendent of Rail Maintenance

Signature: *Michael Bianchi* Date: 6/10/21



## SWPP PLAN FIGRES AND ATTACHMENTS

**FIGURES:**

- 1: Site Location Map**
- 2: Site Aerial Map**
- 3: Site Plan**

**ATTACHMENT A: Spill Reporting**

- A.1: List of Significant Spills or Leaks
- A.2: Information Provided to the National Response Center in the Event of a Discharge

**ATTACHMENT B: Stormwater Checklists and Other Documentation**

- B.1: SWPP Plan Revision Log
- B.2: Employee Training Log
- B.3: Quarterly Stormwater Discharge Visual Assessment Form
- B.4: Non-Stormwater Discharge Monitoring / Assessment Form

**ATTACHMENT C: Endangered Species Information (Criterion C)**

**ATTACHMENT D: Stormwater Notice of Intent and MSGP Permit**

- D.1: Notice of Intent
- D.2: MSGP Permit

**FIGURES:**

- 1: Site Aerial Map
- 2: Site Location Map
- 3: Site Plan





**FIGURE 1: AERIAL MAP**

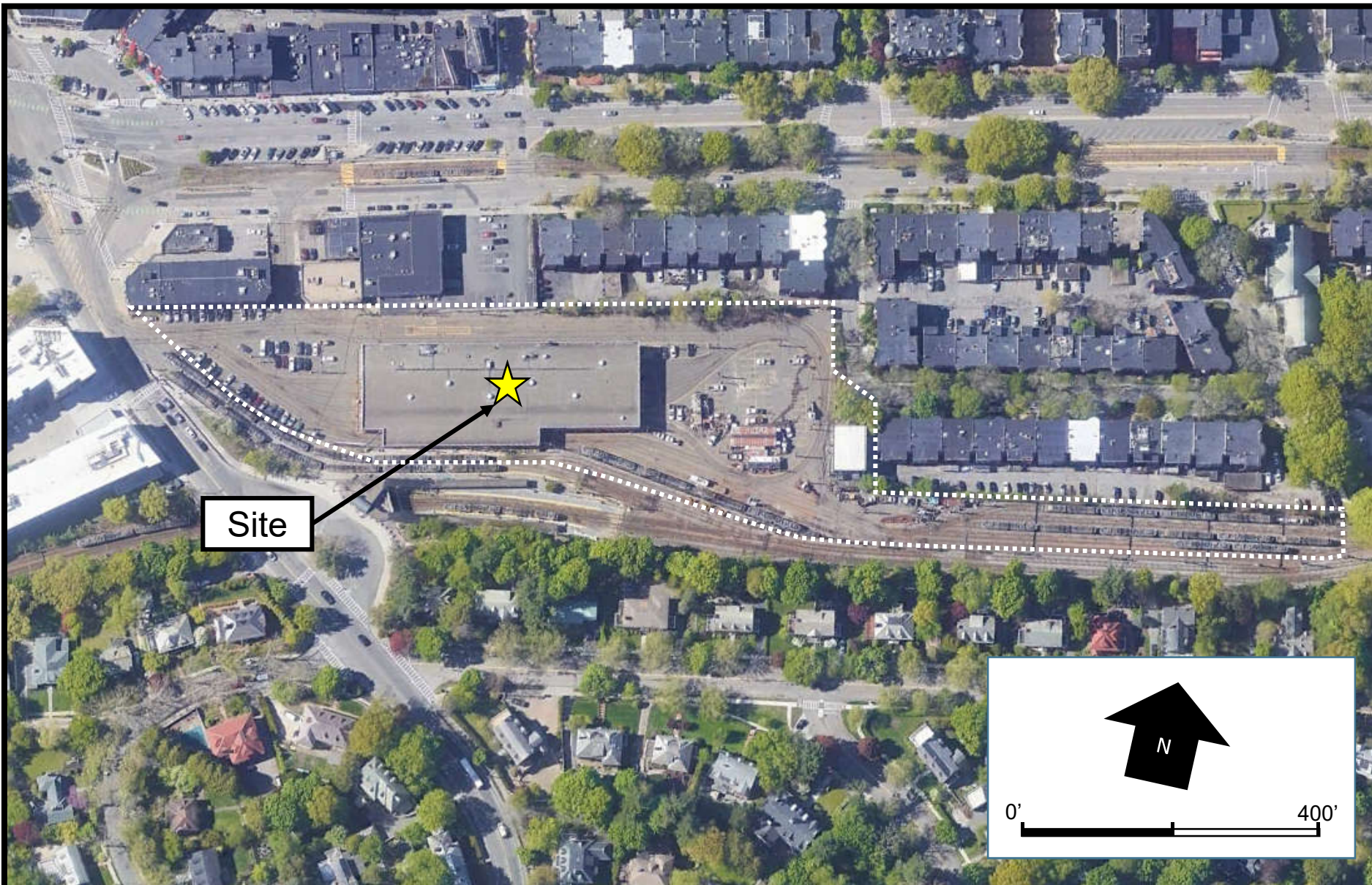
Credit: Google Maps/2021 MassGIS Commonwealth of Massachusetts EOE A

DRAWN BY: RGW / ATLAS – ATC GROUP SERVICES | FILE: SITE MAP

**Stormwater Pollution Prevention (SWPP) Plan**  
Massachusetts Bay Transit Authority (MBTA)  
Reservoir Carhouse  
400 Chestnut Hill Avenue  
Brookline, Massachusetts 02445-4227

**ATLAS**  
ATLAS / ATC GROUP SERVICES  
10 State Street  
Woburn, Massachusetts 01821





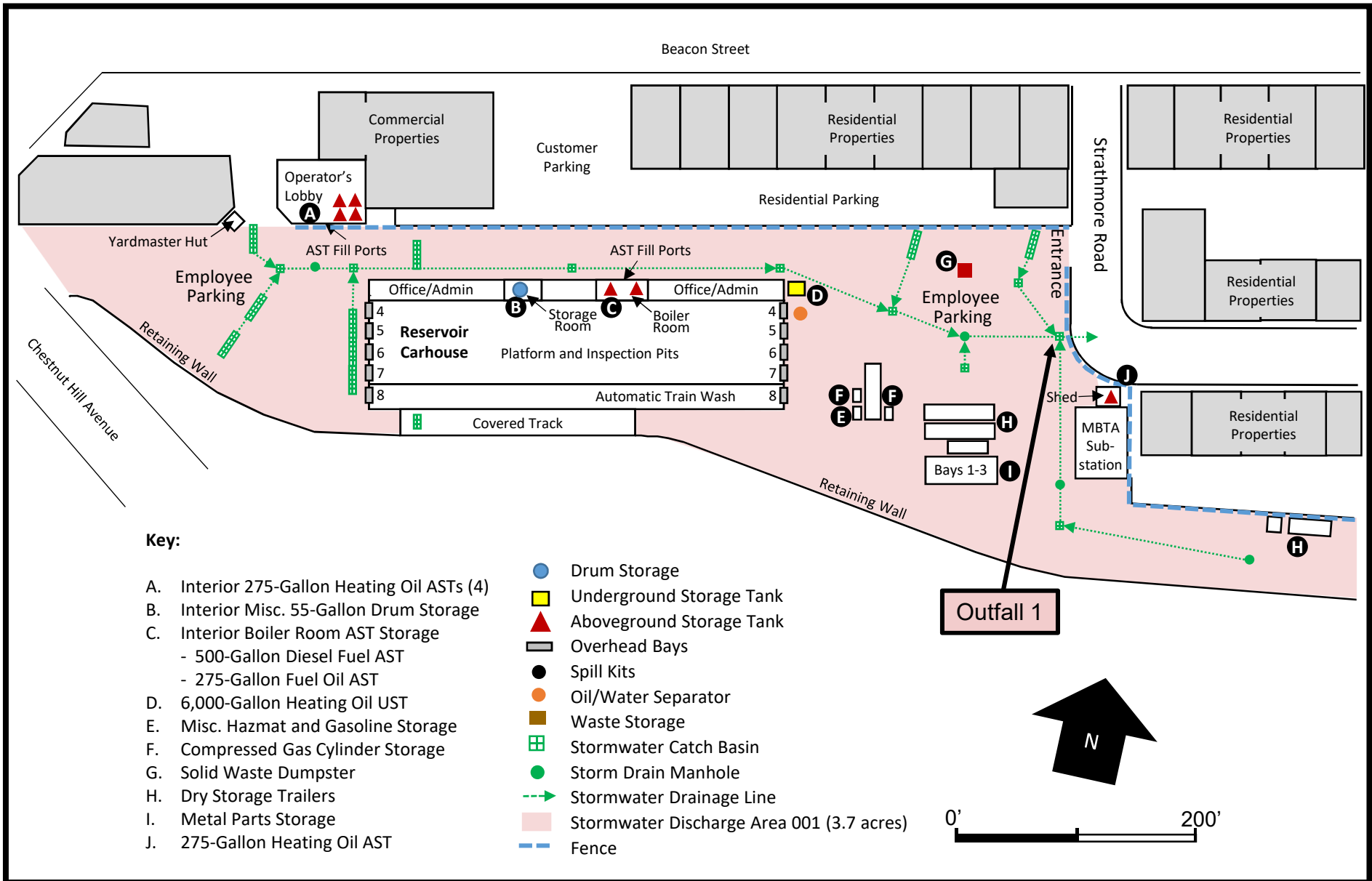
**FIGURE 2: SITE LOCATION MAP**

Credit: Google Maps/2021 MassGIS Commonwealth of Massachusetts EOEa

DRAWN BY: RGW / ATLAS – ATC GROUP SERVICES | FILE: SITE MAP

**Stormwater Pollution Prevention (SWPP) Plan**  
Massachusetts Bay Transit Authority (MBTA)  
Reservoir Carhouse  
400 Chestnut Hill Avenue  
Brookline, Massachusetts 02445-4227

**ATLAS**  
ATLAS / ATC GROUP SERVICES  
10 State Street  
Woburn, Massachusetts 01821



**FIGURE 3: SITE MAP**

Credit: Google Maps/2021 MassGIS Commonwealth of Massachusetts EOEa

DRAWN BY: RGW / ATLAS – ATC GROUP SERVICES

FILE: SITE MAP

**Stormwater Pollution Prevention (SWPP) Plan**  
 Massachusetts Bay Transit Authority (MBTA)  
 Reservoir Carhouse  
 400 Chestnut Hill Avenue  
 Brookline, Massachusetts 02445-4227

**ATLAS**  
 ATLAS / ATC GROUP SERVICES  
 10 State Street  
 Woburn, Massachusetts 01821



## **ATTACHMENT A: Spill Reporting**

A.1: List of Significant Spills or Leaks

A.2: Information Provided to the National Response Center in the Event of a Discharge

**ATTACHMENT A: SPILL REPORTING  
FORM A.1 — LIST OF SIGNIFICANT SPILLS OR LEAKS**

**Facility personnel will update this table whenever a significant Facility spill or leak occurs.** Significant spills are releases within a 24-hour period of hazardous substances in excess of reportable quantities which are set amounts of substances in pounds, gallons, or other units and are listed in 40 CFR 117 and 40 CFR 302. This table and any associated spill forms/information will be kept with the SWPP Plan.

Date	Location/Source	Spill or Leak?	Release Description			Response Procedure and Preventative Measures
			Type of Material	Quantity (gallons)	Reason for Release	
None						

**ATTACHMENT A: SPILL REPORTING  
FORM A.2 – INFORMATION PROVIDED TO THE NATIONAL RESPONSE CENTER IN THE  
EVENT OF A DISCHARGE**

In the event of a spill discharge to navigable waters or adjoining shorelines, the following information will be provided to the NRC (also see Section 3.6 of the SWPP Plan)

Facility Name:			
Facility Address:			
Discharge/Discovery Date:		Time:	
Name of reporting individual		Telephone No.	
Type of material discharged		Estimated total quantity discharged:	Gallons
Source of the discharge (specify):		Media affected (specify below checked media) <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other	
Actions taken:			
Damage or injuries <input type="checkbox"/> No <input type="checkbox"/> Yes (specify):		Evacuation needed? <input type="checkbox"/> No <input type="checkbox"/> Yes (specify):	
Organizations and individuals contacted	<input type="checkbox"/> National Response Center (800-424-8802) Time:		
	<input type="checkbox"/> MassDEP (888-304-1133) Time:		
	<input type="checkbox"/> Local / Other (specify) Time:		
	<input type="checkbox"/> Cleanup Contractor (specify) Time:		
	<input type="checkbox"/> Facility personnel (Specify) Time:		

**ATTACHMENT B: Stormwater Checklists and Other Documentation**

- B1: SWPP Plan Revision Log
- B.2: Employee Training Log
- B.3: Quarterly Stormwater Discharge Visual Assessment Form
- B.4: Non-Stormwater Discharge Monitoring / Assessment Form





**ATTACHMENT B: STORMWATER CHECKLISTS AND OTHER DOCUMENTATION  
B.3: QUARTERLY STORMWATER QUALITY VISUAL ASSESSMENT**

**INSTRUCTIONS.** Complete this form quarterly, during a qualifying rain event. One form must be completed for each stormwater discharge outfall. Corrective action is required if an inspection identifies an unauthorized discharge or BMPs that are not implemented or properly maintained. Identify and complete any required corrective action as soon as possible. Any corrective action that requires the implementation of a new BMP requires an update to the Plan. Revisions to the Plan must be documented on Form C.4. Retain the completed form with the SWPP Plan.

Outfall number:		Date & time collected:		
Nature of discharge (runoff or snowmelt):		Person collecting/examining sample:		
QUALITY	DESCRIPTION	YES	NO	CHARACTERISTICS
<b>Color</b>	Does the stormwater appear to be colored?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Odor</b>	Does the sample have an odor?	<input type="checkbox"/>	<input type="checkbox"/>	Describe Smell: <input type="checkbox"/> Petroleum <input type="checkbox"/> Solvent <input type="checkbox"/> Musty <input type="checkbox"/> Sewage <input type="checkbox"/> Other: _____
<b>Clarity</b>	Is the stormwater clear or transparent?	<input type="checkbox"/>	<input type="checkbox"/>	Describe Clarity: <input type="checkbox"/> Clear <input type="checkbox"/> Milky <input type="checkbox"/> Opaque
<b>Floating Solids</b>	Is there something floating on the surface of the sample?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Settled Solids</b>	Is there something settled on the bottom of the sample?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Suspended Solids</b>	Is there something suspended in stormwater sample?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Foam</b>	Is there foam or material forming on the sample surface?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Oil Sheen</b>	Can you see a rainbow effect or sheen on the water surface?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
<b>Other</b>	Are there any other indicators of stormwater pollution?	<input type="checkbox"/>	<input type="checkbox"/>	Describe:
Was discharge collected within the first 30 minutes of a discharge event that occurred at least 72 hours from the previous discharge event?		<input type="checkbox"/>	<input type="checkbox"/>	If no, explain why not:
<b>Description Corrective Action/SWPP Plan Modification</b>				<b>Dates</b>
				Initiated:
				Completed:
Name & Official Title (type or print)				Signed:
Signature				

**ATTACHMENT B: STORMWATER CHECKLISTS AND OTHER DOCUMENTATION  
B.4: NON-STORMWATER DISCHARGE MONITORING/ASSESSMENT**

Note: Corrective action documentation is required if an assessment identifies any unauthorized non-stormwater discharges. Initiate documentation within 24 hours of the inspection. Corrective Action must be completed within 14 days of the inspection. Retain completed C-4 Forms with the SWPPP. Any Corrective Action requiring a new BMP requires an update to Section 4-1. Revisions to the SWPPP must be documented on C.1.

<b>Non-Stormwater Discharge Monitoring/Assessment</b>		Completed by:		
		Title:		
		Date:		
<b>Outfall Directly Observed</b>	<b>Method Used to Test or Evaluate Discharge</b>	<b>Describe Results from Test for the Presence of Non-Stormwater Discharge</b>	<b>Identify Potential Significant Sources</b>	
	Visual observation after five (5) consecutive dry days			
<b>CORRECTIVE ACTION DOCUMENTATION</b>				
<b>Description of Issue</b>	<b>Description of Corrective Action</b>	<b>SWPPP Modifications</b>	<b>Date Initiated</b>	<b>Date Completed</b>
<b>CERTIFICATION</b>				
I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information contained therein. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information contained 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 fines and imprisonment for knowing violations.				
A. Name & Official Title (type or print)		B. Area Code and Telephone Number		
C. Signature		D. Date Signed		



**ATTACHMENT C: Endangered Species Information (Criterion C)**

# MBTA RESERVOIR CARHOUSE Norfolk and Suffolk counties, Massachusetts

PROJECT HOME

REGULATORY REVIEW

LOCAL OFFICE NEW ENGLAND ESFO -

## Regulatory review

The IPaC regulatory review process helps you to evaluate the potential impacts of your project on resources managed by the U.S. Fish and Wildlife Service. It walks you through the regulations that cover each protected resource and offers suggestions and assistance in designing your project.

### Endangered species

Endangered species are protected under the Endangered Species Act <sup>1</sup>.


**1 endangered species** is known to occur or may be affected by activities in this location.

[START ESA REVIEW](#)

### Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act <sup>2</sup> and the Bald and Golden Eagle Protection Act <sup>3</sup>.

**21 migratory birds** of conservation concern are expected to occur or may be affected by activities in this location.

 Contact the local U.S. Fish and Wildlife Service field office

There is currently no regulatory review process in IPaC for migratory birds. Please contact the local U.S. Fish and Wildlife Service field office to evaluate effects and authorize take.


### Facilities

U.S. Fish and Wildlife Service facilities are protected under the National Wildlife Refuge System Administration Act <sup>4</sup> and the National Fish Hatchery System <sup>5</sup>.

THERE ARE NO U.S. FISH AND WILDLIFE SERVICE REFUGES OR FISH HATCHERIES AT THIS LOCATION.

### Wetlands

Wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act <sup>6</sup>, or other State/Federal statutes.

 Wetland information is not available at this time



## 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 26, 2021

Consultation Code: 05E1NE00-2021-SLI-3549

Event Code: 05E1NE00-2021-E-10646

Project Name: MBTA RESERVOIR CARHOUSE

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](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://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

[www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html](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

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## Project Summary

Consultation Code: 05E1NE00-2021-SLI-3549

Event Code: 05E1NE00-2021-E-10646

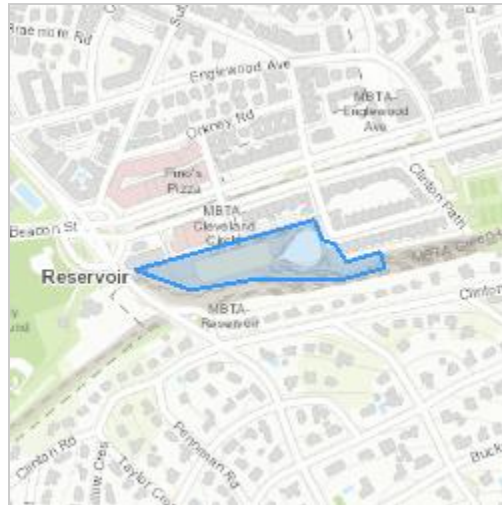
Project Name: MBTA RESERVOIR CARHOUSE

Project Type: \*\* OTHER \*\*

Project Description: Stormwater Pollution Prevention Plan

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.3356589,-71.14788221152304,14z>



Counties: Norfolk and Suffolk counties, Massachusetts

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## 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<sup>1</sup>, 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.

- 
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 <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## Critical habitats

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

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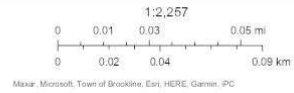


# MBTA / 400 Chestnut Hill Avenue and Village Brook

## Area of Interest (AOI) Information

Area : 8,039.7 acres

May 26 2021 11:34:36 Eastern Daylight Time





Evaluation conducted for 2021 MSGP

## 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

DISCLAIMER: Use of this App does NOT replace the Endangered Species Act (ESA) Section 7 consultation process; it is a first step in determining if a proposed Federal action overlaps with listed species or critical habitat presence. Because the data provided through this App are updated regularly, reporting results must include the date they were generated. The report outputs (map/tables) depend on the options picked by the user, including the shape and size of the action area drawn, the layers marked as visible or selectable, and the buffer distance specified when using the "Draw your Action Area" function. Area calculations represent the size of overlap between the user-drawn Area of Interest (with buffer) and the specified S7 Consultation Area. Summary table areas represent the sum of these overlapping areas for each species group.

## **ATTACHMENT D: Stormwater Notice of Intent and MSGP Permit**

D.1: Notice of Intent  
D.2: MSGP Permit



<p>NPDES FORM 3510-6</p>		<p>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSO CIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENER AL PERMIT</p>	<p>FORM Approved OMB No. 2040-0004</p>
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Permit Information

Master Permit Number: MAR050000

NPDES ID: MAR053221

## 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](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](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:

MAR053221

➔ 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](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](https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf))?

Massachusetts Bay Transportation Authority

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](https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf))?

MBTA RESERVOIR CARHOUSE

## Operator Information

## Operator Information

**Operator Name:** Massachusetts Bay Transportation Authority

## Operator Mailing Address

**Address Line 1:** 10 Park Plaza

**Address Line 2:** Suite 6720

**City:** Boston

**ZIP/Postal Code:** 02116

**State:** MA

**County or Similar Division:** Suffolk

## Operator Point of Contact Information

**First Name Middle Initial Last Name:** Cosette DeCoste

**Title:** Environmental Compliance Officer

**Phone:** 617-780-4056

**Ext.:**

**Email:** cdecoste@MBTA.com

## NOI Preparer Information

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

**First Name Middle Initial Last Name:** Robert G Watkins

**Organization:** ATC Group Services LLC - An Atlas Company

**Phone:** 978-761-8735

**Ext.:**

**Email:** bob.watkins@atcgs.com

## Facility Information

## Facility Information

**Facility Name:** MBTA RESERVOIR CARHOUSE

## Facility Address

**Address Line 1:** 400 CHESTNUT HILL AVE

**Address Line 2:**

**City:** BROOKLINE

**ZIP/Postal Code:** 02146

**State:** MA

**County or Similar Division:** Norfolk

## Latitude/Longitude for the Facility

Latitude/Longitude: 42.335611°N, 71.148386°W

Latitude/Longitude Data Source: Map

Horizontal Reference Datum: NAD 27

## General Facility Information

What is the ownership type of the facility? State Government

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 3.75

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: P

Primary Subsector: P1

Primary SIC Code: 4111

### 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.

There are no guidelines associated with the sector(s) selected in the Facility Information section above.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

## Other Discharge Information

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

➔ If yes, provide the name of the MS4 operator: The City of Brookline Water and Sewer Department and BWSC

## Receiving Waters Information

List all of the stormwater discharge points from your facility.

### Discharge Point 001: Catch basin near the Facility entrance on the east side of the Site

## Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
<input checked="" type="checkbox"/>	P - LAND TRANSPORTATION AND WAREHOUSING	P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4111

Latitude/Longitude: 42.3359°N, 71.1469°W

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

## Receiving Water

GNIS Name:  
n/a

Waterbody Name:  
Muddy River (MA72-11)

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 anti degradation 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? Yes

Cause of Impairment Group	Pollutant
TURBIDITY	Turbidity
NUTRIENTS	Phosphorus, total [as P]
OIL AND GREASE	Oil petroleum, total recoverable
NUTRIENTS	Nitrogen, total

Has a TMDL been completed for this receiving waterbody? Yes

TMDL ID	Cause of Impairment Group	Pollutant
32383	PATHOGENS	E. coli

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: Cosette DeCoste

Phone: 617-780-4056 Ext.:

Email: cdecoste@mbta.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](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).

Provide the web address URL (e.g. <http://www.example.com>): <https://www.mbta.com/sustainability/nature-conservation>

Option 3: Provide the following information from your SWPPP:

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](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 an other 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](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 is the footprint of the Facility and the Village Creek/Lev urret Pond/Muddy River discharge area, since stormwater is directed to a subsurface MS4, which discharges to Blacks Creek, approximately 2 miles east of the Facility.

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](/net-msgp/documents/action_area_example.pdf)) for an example.

Name	Uploaded Date	Size
 RESERVOIR NMFS S7 MAPPER 052621.pdf (attachment/715475)	05/26/2021	308.74 KB
 RESERVOIR NLEB LETTER 052621.pdf (attachment/715471)	05/26/2021	188.57 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) (<mailto:pirohonolulu@noaa.gov>)

I have checked the web pages 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
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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.**

I have used both the iPAC and NMFS Section 7 Mapper On-Line Program to make this determination.

**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](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](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 new 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:** Cosette M. DeCoste

**Certifier Title:** Environmental Compliance Officer

**Certifier Email:** cdecoste@mbta.com

**Certified On:** 05/27/2021 1:47 PM ET