Stormwater Pollution Prevention Plan

for:

Upper Blackstone Water Pollution Abatement District
d.b.a.
Upper Blackstone Clean Water
50 Route 20
Millbury, MA 01527

SWPPP Contact(s):

Upper Blackstone Clean Water
Karla Sangrey, Engineer-Director/Treasurer
50 Route 20
Millbury, MA 01527
(508) 755-1286

SWPPP Preparation Date:

Revision	Date	Comments
1	03/01/2012	Initial
2	2/7/2020	Removed RTO Hydraulics, added $FeCl_3$ Tank, added Landfill BMP and General Cleanup
3	6/19/2020	Update for Impaired Waters, add attachment cover pages
4	8/10/2020	General review by Epsilon Associates - miscellaneous edits throughout; update of site plans
5	3/17/2021	Changed Impaired Waters Monitoring Parameter to Dissolved Oxygen. Remove footer link because of website posting. 2021 MSGP Update.
6	10/25/2022	Add BiSulfite tank and Micro-C Tank. Update attachments. Added links.

Contents

SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information

Facility Information

Name of Facility: Upper Blackstone Clean Water

Street: 50 Route 20

City: Millbury State: MA ZIP Code: 01527

County or Similar Subdivision: Worcester County

Permit Tracking Number:

Latitude/Longitude

Latitude: 1. 42 º 12 ' 41" N (degrees, minutes, seconds)

Longitude: 1. 71 º 47 ' 27" W (degrees, minutes, seconds)

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale:_____) ☐ EPA Web site ☐ GPS

☒ Other (please specify): Google Earth

Is the facility located in Indian Country? ☐ Yes ☒ No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."

Not Applicable

Is this facility considered a Federal Facility? ☐ Yes ☒ No

Estimated area of industrial activity at site exposed to stormwater: 90 (acres)

Discharge Information

Does this facility discharge stormwater into an MS4? ☐ Yes ☒ No

If yes, name of MS4 operator: _____

Name(s) of water(s) that receive stormwater from your facility Blackstone River (final endpoint of discharge)

Are any of your discharges directly into any segment of an "impaired" water? ☒ Yes ☐ No

If Yes, identify name of the impaired water:

Blackstone River - Confluence of Middle River and Mill Brook (downstream of the railroad spur bridge west of Tobias Boland Way), Worcester to Fisherville Pond Dam (NATID: MA00577), Grafton. (through a portion of Fisherville Pond formerly segment MA51048)(Segment ID MA51-03)

Identify the pollutant(s) causing the impairment:

Segment requires a Total Maximum Daily Load (TMDL), pollutants are[1]:

- Debris (TMDL not required)(Non-pollutant)
- Flow Regime Modification (TMDL not required)(Non-pollutant)

[1] Reference: MassDEP's current Integrated Lists of Waters & Related Reports, available at: https://www.mass.gov/lists/integrated-lists-of-waters-related-reports

- Physical substrate habitat alterations (TMDL not required)(Non-pollutant)
- Trash (TDML not required)(Non-pollutant)
- Algae
- Ambient Bioassays - Chronic Aquatic Toxicity
- Benthic Macroinvertebrates
- Dissolved Oxygen
- Escherichia coli (E. Coli)
- Fish Bioassessments
- Flocculant Masses
- Lead
- Nutrient/Eutrophication Biological Indicators
- Odor
- Oil and Grease
- Other Organics
- Phosphorus (Total)
- Scum/Foam
- Sedimentation/Siltation
- Turbidity

For pollutants identified, which do you have reason to believe will be present in your discharge?
Dissolved Oxygen, E. Coli, Lead, Phosphorus (Total), Oil and Grease, TSS, and Turbidity based on previous results (see Attachment M)

For pollutants identified, which have a completed TMDL? None

Do you discharge into a receiving water designated as a Tier 2 (or Tier 2.5) water? ☐ Yes ☒ No

Are any of your stormwater discharges subject to effluent guidelines? ☐ Yes ☒ No

If Yes, which guidelines apply? N/A

Primary SIC Code or 2-letter Activity Code: TW, (LF-Outfall 004) (refer to Appendix D of the 2021 MSGP)

Identify your applicable sector and subsector:
Sector T subsector T1 (All Outfalls); Sector L subsector L1 (Outfall 004 only); Sector L subsector L2 (Outfall 004 only)

1.2 Contact Information/Responsible Parties

Facility Operator/Owner:

Name: Upper Blackstone Clean Water
Address: 50 Route 20
City, State, Zip Code: Millbury, MA 01527
Telephone Number: (508) 755-1286

SWPPP Contact:

Name: Karla Sangrey
Telephone number: 508-755-1286 ext. 19 (direct), 774-696-9763 (mobile)

1.3 Stormwater Pollution Prevention Team

Staff Title	Individual Responsibilities
Engineer-Director/Treasurer	Overall Management and Implementation of SWPPP
Compliance Engineer	Inspections, Comprehensive Site Compliance Evaluation and Reporting
Maintenance Manager	Inspections, Spill Prevention and Control
Lab Manager	Quarterly Visual Assessments

1.4 Activities at the Facility

Upper Blackstone Clean Water (referred to as "the Upper Blackstone" within this Plan) is a municipal water treatment facility, including an on-site ash landfill, located on approximately 90 acres off of Route 20 in Millbury, Massachusetts. The facility serves the Upper Blackstone member communities of Worcester, Auburn, Rutland, Holden, Millbury, West Boylston, and the Cherry Valley Sewer District in Leicester. The Upper Blackstone also accepts trucked liquid sludge and septage from other Massachusetts communities; the facility also treats wastewater generated on site (i.e., from building drains and from the ash landfill leachate collection system). Also located on the site are MassDEP's Richard Alden Training Center and the City of Worcester's catch basin cleaning and street sweeping storage areas.

Route 20 and the Massachusetts Turnpike (I-90) surround the facility to the south; the Providence and Worcester rail line and the Blackstone River are limiting boundaries to the east; the Greenwood Street Solar Farm (formerly the Greenwood Street Landfill) operated by the City of Worcester is located to the north; the Schnitzer Steel metal recycling facility is adjacent to the northwest; and other residential and commercial developments exist to the west.

The plant provides preliminary, primary, and advanced secondary treatment and disinfection for an average flow of about 30 million gallons per day (mgd). The Upper Blackstone is permitted for an average daily flow of 56 mgd, and has a peak design capacity of 160 mgd. It discharges treated water via an effluent channel which proceeds off-site through State property and ultimately discharges to the Blackstone River approximately 2,000 feet south of the facility boundary[2]. The principal components of the wastewater treatment facility (along with the associated stormwater pollutants and potentially impacted outfalls) are listed in Section 2.1.

Site stormwater drainage is generally directed to two drainage channels at the eastern property boundary (an earthen channel, and the 2,000-foot long effluent channel referenced above), which each ultimately discharge to the Blackstone River.

[2] *Note:* The facility holds a separate NPDES permit for the treated water discharge, which describes the water treatment process in more extensive detail. This Plan and the associated Multi-Sector General Permit cover facility stormwater discharges only.

1.5 General Location Map

A copy of the general location map for the facility is included as **Attachment A**.

1.6 Site Map

Site maps for the facility are included as **Attachment B**. To cover all stormwater-related infrastructure, three maps are provided:

- Map 1: Northern portion of the Upper Blackstone - includes the ash landfill, and the areas bordering the adjacent solar farm and metal recycling facility;
- Map 2: Southern portion of the Upper Blackstone - includes the water treatment equipment, incinerators/RTOs, and associated infrastructure (material delivery areas, storage tanks, etc.);
- Map 3: Off-site stormwater discharge path - depicts the effluent channel route from the southern facility boundary through State property and ultimately to the Blackstone River.

SECTION 2: POTENTIAL POLLUTANT SOURCES

2.1 Industrial Activity and Associated Pollutants

The exposed industrial activities conducted on site, along with the potential associated stormwater pollutants and affected outfalls for each activity, are listed below. Outfalls 001-004 are further described in Section 3.4 of this Plan and shown on the Site Maps (**Attachment B**).

Note: The wastewater treatment processes (screening, aeration, etc.) do not discharge to the stormwater outfalls during normal operation. The Upper Blackstone holds a separate NPDES permit for the treated water discharge, but these processes are listed below for completeness, in the unlikely event a process upset occurs that causes a discharge to the stormwater system.

Exposed Industrial Activity	Potential Associated Stormwater Pollutants	Outfall
Ash Landfill – General	Landfill Cover (varies)	004
Ash Landfill – Ash Unloading	Combustion Ash	004
Ash Landfill – Grit Unloading	Grit (Sediment)	004
Wastewater Treatment – Screening Process	Partially Treated Wastewater	002
Wastewater Treatment – Aerated Grit Storage Tanks	Grit (Sediment)	002
Wastewater Treatment – Aerated Grit Loading	Grit (Sediment)	002
Septage Receiving	Untreated Septage	002
Headworks Building Emergency Generator Operation	No. 2 Fuel Oil, Lubrication Oil	002
Headworks Building Emergency Generator Fuel Deliveries (Tanker Truck)	No. 2 Fuel Oil, Vehicle Fluids	002
Municipal Waste Storage	Trash, Debris	002
Salt Storage	Salt	002
Salt Delivery and Loading	Salt, Vehicle Fluids	002
Disinfection Building Emergency Generator Operation	No. 2 Fuel Oil, Lubrication Oil	002, 003
Disinfection Building Emergency Generator Fuel Deliveries (Tanker Truck)	No. 2 Fuel Oil, Vehicle Fluids	002, 003
Sodium Hypochlorite Delivery (Tanker Truck)	Sodium Hypochlorite, Vehicle Fluids	002, 003
Sodium Bisulfite Delivery (Tanker Truck)	Sodium Bisulfite, Vehicle Fluids	002, 003
Magnesium Hydroxide Delivery (Tanker Truck)	Magnesium Hydroxide, Vehicle Fluids	003
Wastewater Treatment – Chlorine Contact Tanks	Partially Treated Wastewater	003
Wastewater Treatment – Final Settling Tanks	Partially Treated Wastewater	001, 002, 003
Electrical Transformers	Mineral Oil (non-PCB)	001, 002, 003
Access Roads – General Vehicular Traffic	Dust, Sand, Vehicle Fluids, Transported Materials (if any)	All (001–004)
Access Roads – Salt Spreading	Road Salt (NaCl), Vehicle Fluids	All (001–004)
Walkway De-Icing	Commercial De-Icer (varies)	All (001–004)

(Continued on next page)

Exposed Industrial Activity	Potential Associated Stormwater Pollutants	Outfall
Wastewater Treatment – Primary Settling Tanks	Partially Treated Wastewater	001
Wastewater Treatment – Aeration Tanks	Partially Treated Wastewater	001
Sludge Delivery (Tanker Truck)	Sludge (from Wastewater)	001
Sludge Holding Tanks	Sludge (from Wastewater), Vehicle Fluids	001
Ferric Chloride Delivery (Tanker Truck)	Ferric Chloride, Vehicle Fluids	001
Ferric Chloride Storage Tank	Ferric Chloride	001
Liquid Polymer Delivery (Tanker Truck)	Liquid Polymer, Vehicle Fluids	001
Micro-C Delivery (Tanker Truck)	Micro-C Vehicle Fluids	001
Incineration – Ash Loading Garage	Combustion Ash, Vehicle Fluids	001
Incineration – Regenerative Thermal Oxidizers (RTOs)	Windblown Combustion Smoke	All (001–004)
Incineration – No. 2 Fuel Oil Delivery (Tanker Truck)	No. 2 Fuel Oil, Vehicle Fluids	001
Vehicle Refueling – Fuel Storage Tank	Gasoline, Diesel Fuel Oil	001
Vehicle Refueling – Fuel Dispensing	Gasoline, Diesel Fuel Oil, Vehicle Fluids	001
Vehicle Refueling – Fuel Delivery (Tanker Truck)	Gasoline, Diesel Fuel Oil, Vehicle Fluids	001
Photovoltaic (Solar Panel) Installation	None	N/A
*As-Needed Fire Fighting / Fire Hydrant Flushing	None	N/A
*Uncontaminated condensate from air conditioners, coolers/chillers, other compressors, and from the outside storage of refrigerated gases or liquids	None	N/A
*Irrigation/Landscape drainage (using pesticides, herbicides, and fertilizers applied in accordance with approved labeling)	Commercial pesticides, herbicides, fertilizers (varies)	All (001–004)
*Pavement wash waters where no detergents or hazardous cleaning products are used	None	N/A
*External building / structure washdown / power wash water that does not use detergents or hazardous cleaning products and the appropriate control measures have been implemented to minimize discharges of mobilized solids and other pollutants	None	N/A

* Designated as an authorized non-stormwater discharge under Section 1.2.2 of the MSGP

2.2 Spills and Leaks

The Upper Blackstone reports that no significant spills or leaks have occurred in the 3 years prior to the preparation of this SWPPP that could contribute pollutants to stormwater discharges, as described in Part 6.2.3.3 of the MSGP.

2.3 Unauthorized Non-Stormwater Discharges Documentation

In accordance with Section 6.2.3.4 of the MSGP, the Upper Blackstone conducted an evaluation for the presence of unauthorized non-stormwater discharges, and found no indication that such discharges occur:

- Date of evaluation: February 23, 2021
- Description of the evaluation criteria used: Reviewed facility plans and conducted a site walk.
- List of the outfalls or onsite drainage points that were directly observed during the evaluation: Outfalls 001-004 as shown on the Site Map.
- Different types of non-stormwater discharge(s) and source locations: The Upper Blackstone is a wastewater treatment plant that discharges approximately 30 mgd of treated wastewater to the Blackstone River. All floor drains are connected to the wastewater treatment system by discharge to the facility headworks.
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified: No action was deemed necessary.

2.4 Salt Storage

The Upper Blackstone uses road salt (NaCl) and walkway deicers (commercially available products with variable ingredients) to promote safety at the facility. The minimum quantities necessary for safety are used.

A salt storage shed is located north of the final settling tanks, which completely covers the road salt stored on-site and prevents precipitation and stormwater runoff from contact with the contained materials. The shed is built on a 6-inch high pad. Approximately 100 tons of road salt is purchased each year. During delivery, the salt is offloaded onto the ground adjacent to the salt shed because the delivery truck is too large to offload into the shed. After the salt is offloaded a backhoe is used to move the salt into the shed. When salt is needed the backhoe is used to fill the salt truck.

2.5 Historical Sampling Data Summary

Under the previous permit term, the Upper Blackstone was subject to the 2015 Multi-Sector General Permit. Historical analytical results available are included as **Attachment M** and contain analytical results for 11 monitoring events in 2015, 9 monitoring events in 2016, 10 monitoring events in 2017, 11 monitoring events in 2018, 4 monitoring events in 2019, and 7 monitoring events in 2020. A review of the historical analytical results shows that E. Coli, Total Lead, Total Phosphorus, Oil and Grease (Total Recoverable), Total Suspended Solids, and Turbidity have been present in at least one monitoring event, however these were not associated with any numerical limits and did not indicate the presence of any new pollution sources. (Refer to Section 4 of this Plan for monitoring details for the current permit term.)

SECTION 3: STORMWATER CONTROL MEASURES

3.1 Minimize Exposure

The Upper Blackstone uses a combination of engineered controls and best management practices to minimize stormwater pollution and to control erosion and sediment. These are summarized in the table below. Other than the ash landfill, normal plant operations are not a potentially significant cause of erosion and sedimentation since the undeveloped portions of the site are well vegetated.

Industrial Activity	Control Measure
Ash landfill	● The landfill is equipped with a leachate collection system that transfers the leachate to the water treatment system headworks. ● Inactive Landfill ash is covered with soil, meeting or exceeding MassDEP's RCS-1 standard, and then seeded. ● Active Landfill ash is covered with daily cover material. ● Silt fences or staked hay bales are used downgradient of exposed soils. ● Filter boxes are used with nearby catch basins. ● Mulching and reseeding of disturbed areas are conducted as soon as possible. ● Records are kept of the types and quantities of waste disposed in each cell of the landfill (per Section 8.L.8 of the MSGP).
Water treatment (general)	● Treatment processes are isolated from the stormwater system - conducted indoors or within appropriately sized holding tanks to prevent overflow. ● Treated water is ultimately discharged in accordance with a site-specific NPDES permit. ● Selected equipment is equipped with biofilters and emissions are limited in accordance with MassDEP air permit. ● Oil-containing aeration blowers are in a covered area, and the facility maintains an SPCC Plan containing procedures for regular inspections and spill response.
Water treatment chemical storage	● With the exception of the ferric chloride, 1 of the Bisulfite tanks and 1 of the Micro-C Tanks all water treatment chemical storage tanks (sodium hydroxide, liquid polymer, Micro-C, sodium hypochlorite, sodium bisulfite, magnesium hydroxide, and collected sludge) are confined indoors. ● The outdoor ferric chloride tank, outdoor bisulfite tank, and the outdoor Micro-C tank are equipped with secondary containment.
Facility-wide indoor drainage	● The indoor drains throughout the facility are routed to the water treatment system headworks.
Emergency generators	● The emergency generator fuel tanks are equipped with secondary containment (double walled design). ● Oil storage and deliveries are managed in accordance with the SPCC Plan. ● Emissions are limited by the MassDEP air permit.
Vehicle fueling	● The outdoor vehicle fueling tank is equipped with secondary containment (double walled design), submerged fill, and a vapor balance system. Emissions are limited by the MassDEP air permit. ● The facility maintains a SPCC Plan that contains procedures for regular inspections and oil spill response. ● The dispensing system is equipped with vapor recovery, in accordance with the MassDEP air permit.

Incineration process	• The Incinerators (except for the RTO/Exhaust System), associated fuel oil tanks, sludge tanks, and Schwing sludge pumps (containing hydraulic oil) are confined indoors. • Emissions from the RTOs exhaust are limited by the MassDEP air permit. • Oil storage and deliveries are managed in accordance with the SPCC Plan. • The sludge delivery area includes trenched drains leading to the Sludge Holding Tank building. • The Sludge Processing Filter building contains a designated spill containment room, used to store spill absorbent materials and other equipment used for minor spill response.
Incineration ash management	• Ash generated at the incinerator building is stored and loaded indoors at the ash garage. • Hot water is added to the ash to minimize dust. • Ash transfer procedures are followed (see **Section 3.2**). • Regular ash system maintenance is conducted (see **Section 3.2**).
Septage receiving	• The Septage Receiving facility is equipped with quick-disconnect hook-ups • The truck bays drain to the grit chamber.
Screening and grit management	• Screenings and grit are loaded indoors into roll-off containers for transport to the on-site landfill.
Catch basin cleaning	• Performed each spring and as needed with a Vac Truck. The cleanings are then deposited in the Landfill.
Water treatment chemical delivery	• Chemical delivery procedures are followed (see **Section 3.2**). • The sodium hypochlorite and sodium bisulfite fill pipes are located in a diked drainage area with a catch basin and a shut-off valve
Access Roads – General Vehicular Traffic	• Regular roadway maintenance is conducted (see **Section 3.2**). • Bollards and curbs are installed in selected locations to protect tanks and other equipment
Access Roads – Salt Spreading	• Minimum salt quantities necessary for safety are used.
Portable Container Storage	• Drums are confined indoors, primarily in the sludge processing building. • Oil storage and deliveries are managed in accordance with the SPCC Plan. • All containers are plainly labeled to encourage proper handling and facilitate rapid response if spills or leaks occur. • All fuel cans have a spring closing lid and spout covers that can close automatically.
Natural Gas-Fired Boiler	• The boilers are confined indoors. • Emissions are limited by the MassDEP air permit.
Municipal Solid Waste	• Trash is picked up regularly for off-site disposal. • Dumpsters are kept covered when not in use. • Solid waste is managed in accordance with applicable regulations, including separate waste streams for garbage and recyclables such as cardboard.
Salt Storage	• Salt is stored in a completely covered shed, on a 6-inch high pad.
Soil Storage	• Stockpiled soil is kept covered. • Only soil meeting or exceeding MassDEP's RCS-1 standard is used.
Electrical Transformers	• Oil-containing transformers are managed in accordance with the SPCC Plan. • Selected transformers are located in a covered area.
Miscellaneous Construction Projects	• All current and proposed construction contracts at the site contain or will contain appropriate specifications for erosion and sediment control and for general environmental protection (including compliance with Conservation Commission regulations where applicable).

3.2 Maintenance Schedule

Preventive maintenance includes the regular inspection and maintenance of storm water controls. It also includes inspection, testing, and maintenance of facility equipment to prevent breakdowns or failures that could cause a release of pollutants; as well as good housekeeping practices to maintain a clean and orderly environment. These activities are performed on a regular basis at the Upper Blackstone as summarized in the table below. (Note: Additional activities may be specified by the facility's SPCC Plan implemented separately; see **Section 3.3**).

Frequency	Inspection / Maintenance Activity
Each Ash Transfer to Landfill	Ensure applicable delivery BMPs are followed, including: • Truck tires are washed (with wash water leading to building drains rather than stormwater system). • Ash is wetted down.
Each Chemical Delivery	Ensure applicable delivery BMPs are followed, including: • The Upper Blackstone personnel as well as the truck driver supervise each delivery. • Scheduled during daylight hours (8am-3pm) and during good weather conditions (no precipitation). • Catch basin covers are used (rubber mats). • Containment pallets are used beneath fill pipes. • Fill port drainage area shutoff valves are used (for sodium hypochlorite and sodium bisulfite deliveries).
Daily	Sweeping of the Ash Garage.
Daily	Daily Cover is applied to the Ash Landfill.
Weekly	Ash Landfill Inspection (see **Attachment F**).
Weekly	Cleaning of Ash Garage and Conditioning Areas.
Weekly	Spill Prevention Checklist (see **Attachment D**).
Quarterly	BMP Inspection Checklist (see **Attachment E**).
Annually	SWPPP Training (see **Section 3.8**).
Annually	Update SWPPP no later than 45 days after the final routine facility inspection for the year. (see Section 6.4.1 of the MSGP).
Annually	Ash screw and spray system cleaning.
Annually (spring), and whenever sediment/debris accumulates	Street sweeping of roadways and parking lots.
Annually (spring), and whenever sediment/debris accumulates	Catch basin cleaning (Note: Pursuant to Section 2.1.2.3 of the MSGP, cleaning of catch basins is required when the depth of debris reaches two-thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe.)

3.3 Spill Prevention and Response

The potential is low for spills of materials stored at the facility to affect the storm drain system because they are primarily stored inside or under cover to prevent potential contact with stormwater run-off. Of greater concern are spills occurring during the loading, unloading or transport of chemicals, fuel, septage, liquid sludge, screenings and grit, and incinerator ash. Most of the process chemicals, as well as fuel oil, septage,

and liquid sludge, are delivered by tank truck. As described throughout Section 3 of this SWPPP, the facility has implemented a variety of engineered controls, best management practices, and inspection procedures to ensure sufficient spill control.

The facility also maintains other plans (available separately on site) with additional spill prevention procedures outside the scope of this SWPPP, including:

- In accordance with federal regulations (40 CFR 112), the SPCC Plan applies to the storage and handling of petroleum products at the facility. It covers the prevention of spills, response procedures if a spill should occur, and employee training.
- A site-specific NPDES permit regulates the water treatment processes and off-site discharge of treated water.

Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a federal reportable quantity occurs during a 24-hour period, the National Response Center (NRC) must be notified at (800) 424-8802 as soon as the facility has knowledge of the discharge. Federal reportable quantities for each substance are listed in EPA's "List of Lists" document, available at: https://www.epa.gov/epcra/consolidated-list-lists-under-epcracerclacaa-ss112r-august-2020-version

State requirements may also necessitate reporting of spills or discharges. State reportable quantities for each substance are listed by MassDEP at: https://www.mass.gov/service-details/oil-hazardous-material-list. As detailed therein, notification must be made as soon as possible to the Millbury Fire Department at (508) 865-5328 and to MassDEP's spill hotline at (888) 304-1133.

If additional support is required, contact information for other internal and external contacts is provided in the facility's SPCC Plan. The Upper Blackstone relies primarily on outside clean-up contractors for emergency response to large spills.

3.4 Management of Runoff

Stormwater runoff throughout the developed area of the site (approx. 50 acres) is channeled to four separate outfalls (001-004) as described below and depicted on the site maps (**Attachment B**). The remaining site area (approx. 40 acres) consists of undeveloped parcels to the west of the developed area.

All four outfalls (001-004) are subject to Industrial Sector "T" of the MSGP (Treatment Works). Discharge from Outfall 004 is also representative of runoff from the Ash Landfill; therefore Outfall 004 is additionally subject to Industrial Sector "L" of the MSGP (Landfills, Land Application Sites, and Open Dumps).

Outfall 001

Outfall 001 collects runoff from approximately 10 acres of the southern portion of the site, primarily using catch basins and below grade piping. This area of the site includes the administration building, vehicle refueling area, sludge holding tanks, sludge processing/incinerator building, and the southern access road.

Outfall 001 consists of a below-grade culvert south of the final setting tanks. Drainage then proceeds off-site (outside the Upper Blackstone's control) to a detention pond located on State property opposite Route 20. The detention pond's contents then lead to a concrete effluent channel, where it is mingled with the

discharge from Outfalls 002 and 003 and is ultimately discharged to the Blackstone River at a point approximately 1,500 feet south of the Upper Blackstone's property line.

In 2012 a segment of the drainage to Outfall 001 was relocated by the use of three manholes. One of the new manholes was installed with a sump which relieved some of the storm water pollution and clogging issues.

Outfall 002

Outfall 002 collects runoff from approximately 20 acres of the central portion of the site primarily using catch basins and below grade piping. This area of the site includes the screening and grit facilities, northern access road, and associated paved areas.

Outfall 002 consists of a below-grade culvert northeast of the final setting tanks, leading to a 2,000-foot southbound concrete effluent channel. This effluent channel proceeds off-site and also collects discharge from Outfalls 001 and 003. It ultimately discharges to the Blackstone River at a point approximately 1,500 feet south of the Upper Blackstone's property line.

In 2009, rehabilitation of the drain line from the inlet to Outfall 002 was conducted. Rehabilitation included:

- Monolithic surface lining of all 6 existing drain manholes;
- Installation of a new drain manhole immediately upstream of Outfall 002;
- New frame and covers for select manholes;
- Cured-in-place pipe lining for select areas;
- Mortar plugging of select lateral pipe lines.

Outfall 003

Outfall 003 collects runoff following overland ground contours from approximately one-half acre of the eastern portion of the site. This area of the site includes part of the final settling tanks, the magnesium hydroxide facility, chlorine contact tanks, and associated paved areas.

Outfall 003 consists of a drainage swale in an undeveloped area, where the stormwater either infiltrates into the ground or flows overland towards the 2,000-foot southbound concrete effluent channel. This effluent channel proceeds off-site and also collects discharge from Outfalls 001 and 002. It ultimately discharges to the Blackstone River at a point approximately 1,500 feet south of the Upper Blackstone's property line.

Outfall 004

Outfall 004 collects runoff from approximately 20 acres of the northern portion of the site, using a series of swales leading to a detention pond. This area of the site includes the ash landfill and the solar panel installation. There are no impervious areas on this portion of the site.

Outfall 004 consists of the detention pond outlet channel (southeast of the ash landfill), which leads to an earthen effluent channel. This effluent channel proceeds southbound for roughly 600 feet and then discharges directly to the Blackstone River via a below-grade culvert at the eastern property line.

Trench Drains and Leachate

There are trench drains located at the delivery area for liquid sludge and the septage receiving facilities. These drains are connected to their respective facility buildings and the drainage is routed back into the wastewater treatment process. The ash landfill is also equipped with a leachate system leading to the water treatment system headworks. These streams are therefore unconnected to the facility's stormwater outfalls (001-004).

3.5 Flood Mitigation

Per section 2.1.1.8 of the MSGP, the Upper Blackstone must consider implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures that can help to minimize impacts from stormwater discharges from major storm events such as hurricanes, storm surge, extreme/heavy precipitation, and flood events. If the Upper Blackstone may be exposed to or has previously experienced such major storm events, additional stormwater control measures that may be considered include, but are not limited to:

- Reinforce materials storage structures to withstand flooding and additional exertion of force;
- Prevent floating of semi-stationary structures by elevating to the Base Flood Elevation (BFE) level or securing with non-corrosive device;
- When a delivery of exposed materials is expected, and a storm is anticipated within 48 hours, delay delivery until after the storm or store materials as appropriate (refer to emergency procedures);
- Temporarily store materials and waste above the BFE level;
- Temporarily reduce or eliminate outdoor storage;
- Temporarily relocate any mobile vehicles and equipment to higher ground;
- Develop scenario-based emergency procedures for major storms that are complementary to regular stormwater pollution prevention planning and identify emergency contacts for staff and contractors; and
- Conduct staff training for implementing your emergency procedures at regular intervals.

The Upper Blackstone's stormwater system has not been significantly affected by previous storm events, however, FEMA maps indicate that roughly the eastern half of the facility (nearest the Blackstone River) is located within a Flood Hazard Area. The facility will be vigilant for any future impacts that may occur in this area.

3.6 Routine Weekly Inspections

In accordance with Section 8.L.7.1 of the MSGP, operating landfills must be inspected at least once every 7 days. The inspection must focus on areas of landfills that have not yet been finally stabilized; active land application areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatment systems; and locations where equipment and waste trucks enter and exit the site. The inspection must also ensure that sediment and erosion control measures are operating properly. An inspection form for this purpose is provided in **Attachment F** of this SWPPP.

The facility also conducts a weekly inspection of the spill control equipment and infrastructure throughout the site. This inspection form is provided in **Attachment D** of this SWPPP.

3.7 Routine Quarterly Inspections

In accordance with Section 3.1 of the MSGP, facility inspections must be conducted at least once each calendar quarter, during normal operating hours. At least once each calendar year, the inspection must be conducted during a period when a stormwater discharge is occurring. Inspections must be performed by a member of the Upper Blackstone Pollution Prevention Team.

A site-specific inspection form is provided in **Attachment E** of this SWPPP, which lists the facility's stormwater control measures, activities that may be exposed to stormwater and other information required by the MSGP. Any corrective action required as a result of a quarterly facility inspection must be performed consistent with Section 5.1 of the MSGP (see also **Section 7** of this Plan).

In general, the inspector must examine or look out for the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks and other containers;
- 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;
- Control measures needing replacement, maintenance or repair.

3.8 Employee Training

All members of the Upper Blackstone Pollution Prevention Team receive annual training on this SWPPP, including the following topics:

- An overview of what is in the SWPPP;
- The location of all controls on site required by this permit, and how they are to be maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements;
- When and how to conduct inspections, record applicable findings, and take corrective actions;
- Petroleum product management;
- Process chemical management;
- Spill prevention and controls;
- Fueling procedures;
- General good housekeeping practices;
- Proper procedures for using fertilizer, herbicides, and pesticides.

The Engineer-Director/Treasurer is the member of the Pollution Prevention Team who ensures all members of the Pollution Prevention Team are trained in their respective functions.

SECTION 4: SCHEDULES AND PROCEDURES FOR MONITORING

Stormwater monitoring/reporting activities required under the MSGP are summarized in the table below, and further detailed in the following subsections.

Frequency	Monitoring / Reporting Activity	Outfalls
Quarterly	Visual Assessment (with at least one assessment per year capturing snowmelt)	All (001-004)
Annual	Impaired Waters Monitoring; submit DMR Report within 30 days of receiving lab results	All (001-004)
Quarterly	Indicator Monitoring (Industrial Sector T Subsector T1); submit DMR Report within 30 days of receiving lab results	All (001-004)
Quarterly	Indicator Monitoring (Industrial Sector L Subsector L2); submit DMR Report within 30 days of receiving lab results	004
Quarterly	Benchmark Monitoring (Industrial Sector L Subsector L1); submit DMR Report within 30 days of receiving lab results	004
Annual by Jan. 30	Submit Annual Summary Report	All (001-004)

Note: As cited in the footnotes (a and b) for Table 8.L-3 of the MSGP, the Annual Effluent Limitation Guidelines (ELG's) for the Landfill are not required because the landfill is operated in conjunction with other onsite industrial operations and the Landfill receives only wastes generated from onsite.

Note: All SWPPP records will be kept for a period of at least three years from the date that coverage under the 2021 MSGP expires or is terminated.

4.1 General Sampling Procedures

All samples will be collected consistent with procedures in Section 4 of the MSGP, summarized as follows:

- Samples will be collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample will be collected as soon as practicable after the first 30 minutes and documentation will be provided as to why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from the site;
- Typically, sampling will be conducted during a storm event after at least 72 hours (3 days) from the previous discharge. However, the 72-hour (3-day) storm interval will not apply if documentation can show that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period;
- For each monitoring event, except snowmelt monitoring, the Upper Blackstone must identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, the facility must identify the date of the sampling event;
- When adverse weather conditions prevent the collection of samples during the quarter, a substitute sample will be taken during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included with SWPPP records. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds,

electrical storms, or situations that otherwise make sampling impractical, such as extended frozen conditions.

4.2 Quarterly Visual Assessments

Quarterly Visual Assessments are conducted at all four outfalls in accordance with Section 3.2 of the MSGP, summarized as follows:

- A Quarterly Visual Assessment Form, included as **Attachment G**, will be used to document each assessment.
- At least one quarterly visual assessment per year must capture snowmelt discharge.
- Samples will be collected by a member of the Upper Blackstone Pollution Prevention Team in a clean, clear glass, or plastic containers, and examined in a well-lit area.
- The inspector must visually inspect or observe the sample for the following water quality characteristics:
    - Color
    - Odor
    - Clarity (diminished)
    - Floating solids
    - Settled solids
    - Suspended solids
    - Foam
    - Oil sheen; and
    - Other obvious indicators of stormwater pollution.
- The visual assessment findings are not submitted to EPA, unless specifically requested. However, the findings are summarized in the annual report (see Section 4.5). Whenever the visual assessment shows evidence of stormwater pollution, corrective action procedures are initiated as described in **Section 7** of this Plan.

- Per 3.2.4.1 of the MSGP, when adverse weather conditions prevent the collection of stormwater discharge sample(s) during the quarter, take a substitute sample during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included in the SWPPP records as described in Part 6.5 of the MSGP. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, electrical storms, or situations that otherwise make sampling impractical, such as extended frozen conditions.

- Per 3.2.4.2 of the MSGP, if the facility is located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate) or in an area where freezing conditions exist that prevent discharges from occurring for extended periods, then your samples for the quarterly visual assessments may be distributed during seasons when precipitation more regularly occurs.

- Per 6.5.6 of the MSGP, a description of any deviation from the schedule for visual assessments and the reason for the deviation will be documented. The documentation is located in **Attachment M** (Historical Stormwater Monitoring Analytical Results).

4.3 Annual Impaired Waters Monitoring

- As described in Section 4.2.5 of the MSGP, the facility must monitor annually in the first year (2021) and again in the fourth year (2024) of permit coverage all pollutants for which the waterbody is impaired and for which a standard analytical method exists at each outfall discharging stormwater to impaired waters without an EPA-approved or established TMDL. Unless a pollutant is detected that causes an impairment in which case annual monitoring must continue throughout the permit coverage for that pollutant until it is no longer detected. The first annual sample must be taken in the first full quarter following May 30, 2021.

- Per section 4.2.5.1 of the MSGP, except where otherwise directed by EPA, if the pollutant of concern for the impaired waterbody is suspended solids, turbidity, or sediment/sedimentation, you must monitor for Total Suspended Solids (TSS).

- Allowable monitoring methods are listed in 40 CFR 136.3[3], and additional Massachusetts-specific guidance is provided by U.S. EPA's guidance document "Parameters and Methods Operators Discharging into Massachusetts Waters"[4].

- The portion of the Blackstone River to which the facility discharges (Segment ID# MA51-03) is designated as Impaired for the parameters listed at MassDEP's current Integrated Lists of Waters & Related Reports[5]. These parameters (none of which have a TMDL) are summarized below, along with the associated monitoring method for each parameter.

- Per 6.5.6 of the MSGP, a description of any deviation from the schedule for monitoring and the reason for the deviation will be documented. The documentation is located in **Attachment M** (Historical Stormwater Monitoring Analytical Results).

[3] https://ecfr.io/Title-40/Section-136.3
[4] https://www3.epa.gov/region1/npdes/stormwater/assets/pdfs/msgp-2015-part-624-parameters-ma.pdf
[5] https://www.mass.gov/lists/integrated-lists-of-waters-related-reports

Annual Impaired Waters Monitoring (All Sectors)(Outfalls 1-4)		
Pollutant Causing Impairment	**Monitoring Parameter**	**Allowable Monitoring Method(s)**
Debris	N/A	N/A ("non-pollutant")
Flow Regime Modification	N/A	N/A ("non-pollutant")
Physical substrate habitat alterations	N/A	N/A ("non-pollutant")
Trash	N/A	N/A ("non-pollutant")
Algae	N/A	N/A (no analytical method listed)
Ambient Bioassays - Chronic Aquatic Toxicity	N/A	N/A (no analytical method listed)
Benthic Macroinvertebrates	N/A	N/A (no analytical method listed)
Dissolved Oxygen	Dissolved Oxygen	Hach Method 10360
Escherichia Coli (E. Coli)	E. Coli	EPA Method 1103.1 EPA Method 1603
Fish Bioassessments	N/A	N/A (no analytical method listed)
Flocculant Masses	N/A	N/A (no analytical method listed)
Lead	Total Lead	EPA Method 200.7 EPA Method 200.8 EPA Method 200.9
Nutrient/Eutrophication Biological Indicators	Phosphorus, Total	EPA Method 365.1 EPA Method 365.2 EPA Method 365.3
Odor	N/A	N/A (no analytical method listed)
Oil and Grease	Oil & Grease (Total Recoverable)	EPA Method 1664 Rev. A or B
Other Organics	N/A	N/A (no analytical method listed)
Phosphorus, Total	Phosphorus, Total	EPA Method 365.1 EPA Method 365.2 EPA Method 365.3
Scum/Foam	N/A	N/A (no analytical method listed)
Sedimentation/Siltation	Total Suspended Solids	EPA Method 160.2
Turbidity	Total Suspended Solids	EPA Method 160.2

Results must be submitted to EPA within 30 days of receiving full laboratory results, using EPA's electronic NetDMR system.

With the exception of the first year (2021) and the fourth year (2024) of permit coverage, if the pollutant(s) for which the water body is impaired are not detected above natural background levels in the discharge, and it is documented that the pollutant(s) are not expected to be present above natural background levels in the discharge then impaired waters monitoring is no longer required for those pollutant(s). To support a determination that the pollutant's presence is caused solely by natural background sources, the following documentation is required to be kept on file with this SWPPP:

- An explanation of why it is believed that the presence of the pollutant causing the impairment in the discharge is not related to the activities at the facility;

- Data and/or studies that tie the presence of the pollutant causing the impairment in the discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on the site, or pollutants in run-on from neighboring sources that are not naturally occurring. However, the facility may be eligible to discontinue annual monitoring for pollutants that occur solely from these sources and should consult the appropriate EPA Regional Office for related guidance.

4.4 Indicator Monitoring and Benchmark Monitoring

- Indicator Monitoring is required for all Outfalls (001-004) as described in Section 4.2.1 and Sector T Subsector T1 of the MSGP each quarter where there is flow. Each Outfall will be tested for Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), and pH.

- Indicator Monitoring is required for Outfall (004) as described in Section 4.2.1 and Sector L Subsector L2 of the MSGP each quarter where there is flow. Outfall (004) will be tested for Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), and pH.

- As described in Section 4.2.2 and Sector L Subsector L1 of the MSGP, benchmark monitoring is required at Outfall 004, because the Ash Landfill meets the description of a non-hazardous waste landfill but is not subject to the effluent limitations in 40 CFR Part 445 Subpart B due to the landfill is operated in conjunction with other onsite industrial operations and the Landfill receives only wastes generated from onsite. The Ash Landfill is still receiving ash and has potential from trucks transporting ash or uncapped cells to produce contaminated stormwater discharges (as defined in Section 8.L.4.1 of the MSGP).

- The Upper Blackstone has no paved surfaces that will be sealed or resealed with coal-tar sealcoat during the permit term, therefore benchmark monitoring for Polycyclic Aromatic Hydrocarbons (PAHs) does not apply as described in Sector “L” and Sector “T” of the 2021 MSGP.

- Allowable monitoring methods are listed in 40 CFR 136.3. The Indicator and Benchmark Monitoring parameters to be monitored are summarized below, along with the associated monitoring method for each parameter.

- Per 4.1.5 of the MSGP, when adverse weather conditions as described in Part 3.2.4.1 of the MSGP prevent the collection of stormwater discharge samples according to the relevant monitoring schedule, the facility must take a substitute sample during the next qualifying storm event. Adverse weather does not exempt the facility from having to file a benchmark monitoring report in accordance with the sampling schedule. As specified in Part 7.4 of the MSGP, the facility must indicate in Net-DMR any failure to monitor during the regular reporting period.

- Per 4.1.6 of the MSGP, if the facility is located in areas where limited rainfall occurs during parts of the year (e.g., arid or semi-arid climates) or in areas where freezing conditions exist that prevent discharges from occurring for extended periods, the facility may distribute the required monitoring events during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from the facility. The facility must still collect the required number of samples. As specified in Part 7.4 of the MSGP, the facility must also indicate in Net-DMR that there was no monitoring for the respective monitoring period.

- Per 6.5.6 of the MSGP, a description of any deviation from the schedule for monitoring and the reason for the deviation will be documented. The documentation is located in **Attachment M** (Historical Stormwater Monitoring Analytical Results).

Indicator Monitoring and Benchmark Monitoring			
Monitoring Parameter	**Benchmark Monitoring Limit**	**Allowable Monitoring Method(s)**	**Outfalls**
Chemical Oxygen Demand (COD)	None	EPA Method 410.4, Rev. 2.0 (1993) Standard Method 5220 D-2011 ASTM D1252-06 (B) OIC COD Method. 1978 Hach Method 8000 USGS I-3561-85	All (001-004)
Total Suspended Solids (TSS)	None	EPA Method 160.2	All (001-004)
pH	None	EPA Method 150.2	All (001-004)
Total Suspended Solids (TSS)	100 mg/L	EPA Method 160.2	004

4.5 Annual Summary Report

Submit an Annual Report to EPA by January 30th for each year of permit coverage (starting Jan. 30, 2022) containing information generated from the past calendar year, using EPA's electronic NPDES reporting system. Include the following information:

- A summary of the past year's quarterly facility inspection documentation;
- A summary of the past year's quarterly visual assessment documentation;
- A summary of the past year's corrective action documentation (see Section 7 of this Plan). If corrective action is not yet completed at the time of submission of the annual report, the facility must describe the status of any outstanding corrective action(s). Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that the facility is in compliance with the permit;
- A signed certification statement.

SECTION 5: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

5.1 Documentation Regarding Endangered Species

A review of the U.S. Fish and Wildlife Services (FWS) tool at http://ecos.fws.gov/ipac/ indicated that one threatened species, the Northern Long-Eared Bat, may exist in proximity to the facility. This is a non-aquatic (terrestrial) species which would not feasibly be affected by the stormwater discharge. Furthermore, no listed critical habitats are located within the affected area. A review of U.S. National Marine Fisheries Service (NMFS) maps at http://www.nmfs.noaa.gov/pr/species/criticalhabitat.htm has also indicated that the facility is not in proximity to any NMFS-listed species.

FWS documentation regarding endangered species is included as **Attachment J**.

5.2 Documentation Regarding Historic Properties

The Massachusetts Historical Commission (MHC) was contacted in regard to stormwater discharges from the site that could affect historic properties. The MHC replied in a letter dated February 16, 2012, requesting project information be forwarded to the Blackstone Valley National Heritage Corridor Commission (BVNHCC) and the information was forwarded on February 23, 2012. BVNHCC replied in a letter dated March 28, 2012 and, in summary, stated “Based on the information provided, the Corridor Commission believes that the project is unlikely to affect resources within the Blackstone Canal National Register Historic District or other significant historic or archeological resources in the area.” Based on this response the site was listed under Criterion A of Section 1.1.4.6 of the 2015 MSGP. Also, BVNHCC requested to review the SWPPP. In response, a letter was sent from the Upper Blackstone to inform BVNHCC that a copy of the SWPPP is located at the Upper Blackstone. Documentation regarding historic properties is included as **Attachment K**.

During the upcoming permit term, the facility may conduct minor maintenance of the stormwater system that involves excavations of less than 1 acre. Per Appendix F of the 2021 MSGP, since the site is an existing facility and the site is not constructing or installing any new stormwater control measures that will disturb greater than 1 acre and during previous construction the property was revealed to be absent of historic properties then the site has met eligibility Criterion B of the MSGP.

SECTION 6: SWPPP 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 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Karla H. Sangrey Title: Engineer Director/Treasurer

Signature: Date: October 25, 2022

SECTION 7: SWPPP MODIFICATIONS, CORRECTIVE ACTIONS AND ADDITIONAL IMPLEMENTATION MEASURES (AIM)

Corrective action requirements are provided in Part 5 of the MSGP and are summarized below. Any corrective action-related documentation will be stored with this SWPPP.

7.1 SWPPP Modifications

When any of the following conditions occur or are detected during an inspection, monitoring or other means, or EPA informs the facility that any of the following conditions have occurred, this SWPPP will be reviewed and revised, as appropriate, (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of control measures) so that the effluent limits are met and pollutant discharges are minimized:

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by the MSGP to a water of the U.S.) occurs at the facility.
- A discharge violates a numeric effluent limit.
- The facility's control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in the MSGP.
- A required control measure was never installed, was installed incorrectly, or not in accordance with the MSGP, or is not being properly operated or maintained.
- Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).
- Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged.

7.2 Corrective Actions

7.2.1 Immediate Corrective Actions

If corrective action is needed, the facility must immediately take all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

Note: In this context, the term "immediately" requires the facility to, on the same day a condition requiring corrective action is found, take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action, the initiation of corrective action must begin no later than the following work day. "All reasonable steps" means that the facility has undertaken initial actions to assess and address the condition causing the corrective action, including, for example, cleaning up any exposed materials that may be discharged in a storm event (e.g., thorough sweeping, vacuuming) or

making arrangements (i.e., scheduling) for a new BMP to be installed at a later date. If it is concluded that a corrective action is, in fact, not necessary, this will be documented in the SWPPP.

7.2.2 Subsequent Corrective Actions

If the facility determines that additional actions are necessary beyond the Immediate Actions above, the facility must complete the corrective actions (e.g., install a new or modified control and make it operational, complete the repair) before the next storm event if possible, and within 14 calendar days from the time of discovery of the corrective action condition. If it is infeasible to complete the corrective action within 14 calendar days, the facility must document why it is infeasible to complete the corrective action within the 14-day timeframe. The facility must also identify the schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. If the completion of corrective action will exceed the 45 day timeframe, the facility may take the minimum additional time necessary to complete the corrective action, provided that the facility notifies the EPA Regional Office of the intention to exceed 45 days, the rationale for an extension, and a completion date, which must also be included in the corrective action documentation. Where corrective actions result in changes to any of the controls or procedures documented in the SWPPP, the SWPPP must be modified accordingly within 14 calendar days of completing corrective action work.

7.2.3 Corrective Action Documentation

The facility must document the existence of any of the Immediate or Subsequent conditions listed above within 24 hours of becoming aware of such condition. The facility is not required to submit the corrective action documentation to EPA, unless specifically requested to do so. However, the findings must be summarized in the annual report to EPA (**section 4.5** of this Plan). The following information must be included in the documentation:

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

The facility must also document the corrective actions taken or to be taken as a result of the conditions requiring SWPPP review and revision (or, for triggering events where it is determined that corrective action is not necessary, the basis for this determination) within 14 days from the time of discovery of any of those conditions. The facility must provide the dates when each corrective action was initiated and completed (or is expected to be completed). If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe and document the schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe. If the facility notified EPA regarding an extension of the 45-day timeframe, the facility must document the rationale for an extension.

7.3 Additional Implementation Measures (AIM)

Per part 5.2.2 of the MSGP, if an annual average exceeds a benchmark threshold based on the following events, the AIM requirements have been triggered for that benchmark requirement. The facility must follow the corresponding AIM-level responses and deadlines described in parts 5.2.3 (AIM Level 1), 5.2.4 (AIM Level 2), and 5.2.5 (AIM Level 3) of the MSGP. An annual average exceedance can occur if:

- The four-quarterly annual average for a parameter exceeds the benchmark threshold, or
- Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four times for a parameter. This result indicates an exceedance is mathematically certain.

7.3.1 AIM Level 1

The facility's status starts at baseline once the SWPPP is publicly available and 30 calendar days after EPA has notified the Upper Blackstone that it has received a completed NOI.

The facility's status changes from baseline to AIM Level 1 if quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has occurred.

<u>AIM Level 1 Responses</u>

If any of the triggering events in part 5.2.2 of the MSGP occur the facility must:

- Immediately review the facility SWPPP and the selection, design, installation, and implementation of the facility's stormwater control measures to ensure the effectiveness of the facility's existing measures and determine if modifications are necessary to meet the benchmark threshold for the applicable parameter, and
- After reviewing the SWPPP/stormwater control measures, the facility must implement additional measures, considering good engineering practices, that would reasonably be expected to bring the facility's exceedances below the parameter's benchmark threshold; or if it is determined that nothing further needs to be done with the stormwater control measures, then document per part 5.3 of the MSGP and include in the annual report why the facility personnel expect the existing control measures to bring the exceedances below the parameter's benchmark threshold for the next 12-month period.

<u>AIM Level 1 Deadlines</u>

- If any modifications to or additional control measures are necessary in response to AIM Level 1, the facility must implement those modifications or control measures within 14 days of receipt of laboratory results, unless doing so within 14 days is infeasible. If doing so within 14 days is infeasible, the facility must document per part 5.3 of the MSGP why it is infeasible and implement such modifications within 45 days.

<u>Continue Quarterly Benchmark Monitoring</u>

- After Compliance with AIM Level 1 responses and deadlines, the facility must continue quarterly benchmark monitoring for the next four quarters for the parameter that caused the AIM triggering

event at all affected stormwater discharge points, beginning no later than the next full quarter after compliance.

AIM Level 1 Status Update

- AIM Level 1 status will return to baseline status if the AIM Level 1 responses have been met and continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has not occurred after four quarters of monitoring. The facility may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per part 4.2.2.3 of the MSGP or if the facility has fulfilled all benchmark monitoring requirements per part 4.2.2.3 of the MSGP, then the facility may discontinue monitoring for that parameter for the remainder of the permit.
- AIM Level 1 status advances to AIM Level 2 status if the facility has completed AIM Level 1 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per 5.2.2 of the MSGP has occurred again for the same parameter.

7.3.2 AIM Level 2

- The facility's status changes from AIM Level 1 to AIM Level 2 if the continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has occurred.

AIM Level 2 Responses

If any of the triggering events in part 5.2.2 of the MSGP occur the facility must:

- Review the facility SWPPP and implement additional pollution prevention/good housekeeping SCMs, considering good engineering practices, beyond what the facility did in the AIM Level 1 responses that would reasonably be expected to bring the facility exceedances below the parameter's benchmark threshold. Refer to the MSGP sector-specific fact sheets for recommended controls found at [https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-fact-sheets-and-guidance].

AIM Level 2 Deadlines

- The facility must implement additional pollution prevention/good housekeeping SCMs within 14 days of receipt of laboratory results that indicate an AIM triggering event has occurred and document per part 5.3 of the MSGP how the measures will achieve benchmark thresholds. If it is feasible for the facility to implement a measure, but not within 14 days, the facility may take up to 45 days to implement such measure. The facility must document per part 5.3 of the MSGP why it was infeasible to implement such measure in 14 days. EPA may also grant the facility an extension beyond 45 days, based on an appropriate demonstration by the facility.

Continue Quarterly Benchmark Monitoring

After Compliance with AIM Level 2 responses and deadlines, the facility must continue quarterly benchmark monitoring for the next four quarters for the parameter that caused the AIM triggering event at all affected stormwater discharge points, beginning no later than the next full quarter after compliance.

AIM Level 2 Status Update

- AIM Level 2 status will return to baseline status if the AIM Level 2 responses have been met and continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has not occurred after four quarters of monitoring. The facility may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per part 4.2.2.3 of the MSGP or if the facility has fulfilled all benchmark monitoring requirements per part 4.2.2.3 of the MSGP, then the facility may discontinue monitoring for that parameter for the remainder of the permit.
- AIM Level 2 status advances to AIM Level 3 status if the facility has completed AIM Level 2 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per 5.2.2 of the MSGP has occurred again for the same parameter.

7.3.3 AIM Level 3

- The facility's status changes from AIM Level 2 to AIM Level 3 if the continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has occurred.

AIM Level 3 Responses

If any of the triggering events in part 5.2.2 of the MSGP occur the facility must:

- Install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures), except as provided in part 5.2.6 of the MSGP (AIM Exceptions). The controls or treatment technologies or treatment train the facility installs should be appropriate for the pollutants that triggered AIM Level 3 and should be more rigorous than the pollution prevention/good housekeeping-type stormwater control measures implemented under AIM Tier 2 in part 5.2.4 of the MSGP. The facility must select controls with pollutant removal efficiencies that are sufficient to bring the facility's exceedances below the benchmark threshold. The facility must install such stormwater control measures for the discharge point(s) in question and for substantially identical discharge points (SIDPs), unless the facility individually monitors those SIDPs and demonstrates that AIM Level 3 requirements are not triggered at those discharge points.

AIM Level 3 Deadlines

- The facility must identify the schedule for installing the appropriate structural source and/or treatment stormwater control measures within 14 days and install such measures within 60 days. If it is not feasible within 60 days, the facility may take up to 90 days to install such measures, documenting in the facility SWPPP per part 5.3 of the MSGP why it is infeasible to install the measure within 60 days. EPA may also grant the facility an extension beyond 90 days, based on an appropriate demonstration by the facility.

Continue Quarterly Benchmark Monitoring

After Compliance with AIM Level 3 responses and deadlines, the facility must continue quarterly benchmark monitoring for the next four quarters for the parameter that caused the AIM triggering event at all affected stormwater discharge points, beginning no later than the next full quarter after compliance.

AIM Level 3 Status Update

- AIM Level 3 status will return to baseline status if the AIM Level 3 response(s) have been met and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has not occurred after four quarters of monitoring. The facility may discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of permit coverage per part 4.2.2.3 of the MSGP or if the facility has fulfilled all benchmark monitoring requirements per part 4.2.2.3 of the MSGP, then the facility may discontinue monitoring for that parameter for the remainder of the permit.
- AIM Level 3 status will remain at Level 3 if the facility has completed the AIM Level 3 responses and the continued quarterly benchmark monitoring results indicate that an AIM triggering event per part 5.2.2 of the MSGP has occurred. The facility must continue quarterly benchmark monitoring for the next four quarters for the parameter that caused the AIM triggering event at all affected discharge points, beginning no later than the next full quarter after compliance. If the facility continues to exceed the benchmark threshold for the same parameter even after compliance with AIM Level 3, EPA may require the facility to apply for an individual permit.

7.3.4 AIM Exceptions

- Following the occurrence of an AIM triggering event per part 5.2.2 of the MSGP, at any point or tier level of AIM and following four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data), the facility may qualify for an exception below from AIM requirements and continued benchmark monitoring. Regardless if the facility qualifies for and claims an exception, the facility must still review the SCMs, SWPPP, and other on-site activities to determine if actions or modifications are necessary or appropriate in light of the benchmark exceedance. If claiming an AIM exception, the facility must follow the requirements to demonstrate that the facility qualifies for the exception as provided below. If the facility qualifies for an exception, then the facility is not required to comply with the AIM responses or the continuation of quarterly benchmark monitoring for any parameter for which the facility can demonstrate that the benchmark exceedance is:
    - Solely attributed to natural background pollutant levels
    - Due to run-on
    - Due to an abnormal event
    - Demonstrated to not result in any exceedance of water quality standards.

The following is a log to be updated anytime a corrective action is implemented:

Date of Corrective Action	Briefly described Corrective Action	Copy of Corrective Action Report Form included with SWPPP?

SWPPP ATTACHMENTS/LINKS

Attachment A – General Location Map

Attachment B – Site Maps

Attachment C – Notice of Intent (NOI)

Attachment D – Weekly Spill Prevention Control and Countermeasure Inspection Checklist

Attachment E – Quarterly NPDES SWPPP BMP Inspection Checklist

Attachment F – Weekly Landfill Inspection Checklist

Attachment G – MSGP Quarterly Visual Assessment Form

Link H – EPA MSGP Discharge Monitoring Report

Note: The DMR is to be submitted electronically by logging in at https://cdxnodengn.epa.gov/net-netdmr/ and using the Program Service NDMR-R1: NetDMR: EPA Region 01 - New Hampshire and Massachusetts.

Link I – EPA Annual Reporting Form

Note: The Annual Report is to be submitted electronically by logging in at https://cdx.epa.gov/cdx/Login and using the Program Service NETMSGP: NeT - Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity.

Attachment J – Endangered Species (https://ecos.fws.gov/ipac/)

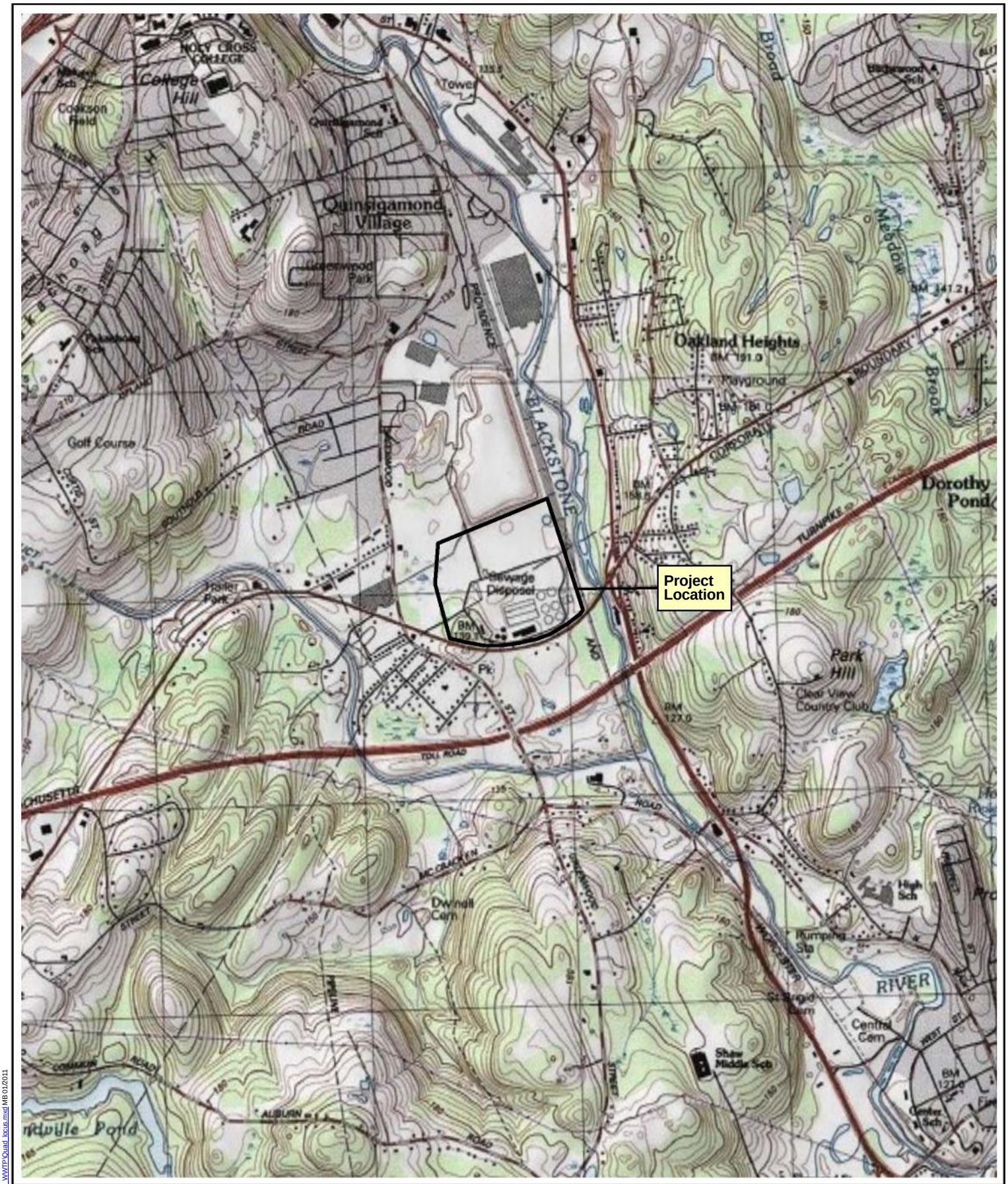
Attachment K – Massachusetts Historical Commission Documentation

Attachment L – EPA NPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp)

Attachment M – Historical Stormwater Monitoring Analytical Results

Attachment N – Routine Facility Inspection Reports

Attachment A



Basemap: NGS Topo US 2D (1:24,000)
Source: ESRI ArcGIS Online, USGS, and NGS
Coordinate System: NAD83 Mass. State Plane Mainland (meters)

N

0 1,000 2,000
Feet

Upper Blackstone Water Pollution Abatement District
Millbury, MA

Attachment A
General Location Map

CDM Smith

\\CDM038HG4D1\Project_bus\Upper_Blackstone_WWTP\Quad_locus.mxd MB 01/2011

Attachment B

SWPPP & SPCC SITE MAP 1 – UPPER BLACKSTONE CLEAN WATER (NORTHERN PORTION)

STORMWATER COLLECTION SYSTEM (SURFACE CULVERT)

STORMWATER COLLECTION SYSTEM (BELOW GRADE PIPING WITH CATCH BASINS)

ASH TRUCK ROUTE TO/FROM LANDFILL AREA

LECHATE COLLECTION SYSTEM (BELOW GRADE PIPING)

STORMWATER FLOW DIRECTION (SIGNIFICANT SLOPE)

APPROX. UBCW PROPERTY LINE

BLACKSTONE RIVER (ENDPOINT OF OUTFALLS 001-004)

SEE SWPPP FOR IMPAIRMENT / TMDL DETAILS

GREENWOOD LANDFILL LEACHATE

SCHNITZER STORMWATER

STORMWATER CATCH BASIN

B MAINTENANCE BUILDING

STORMWATER OUTFALL

T1 2 x TRANSFORMERS (188-GAL MINERAL OIL EACH)

T2 2 x TRANSFORMERS (293-GAL MINERAL OIL EACH) (UNDER DOME COVER)

T3 2 x TRANSFORMERS (344-GAL MINERAL OIL EACH)

T4 2 x TRANSFORMERS (293-GAL MINERAL OIL EACH) (UNDER DOME COVER)

T5 2 x TRANSFORMERS (352-GAL MINERAL OIL EACH)

D1 ~5-10 x 55-GAL DRUMS - GEAR & WASTE OIL (SLUDGE HOLDING TANKS BLDG)

D2 ~5 x 55-GAL DRUMS - GEAR & WASTE OIL (PRIMARY SETTLING TANKS BLDG)

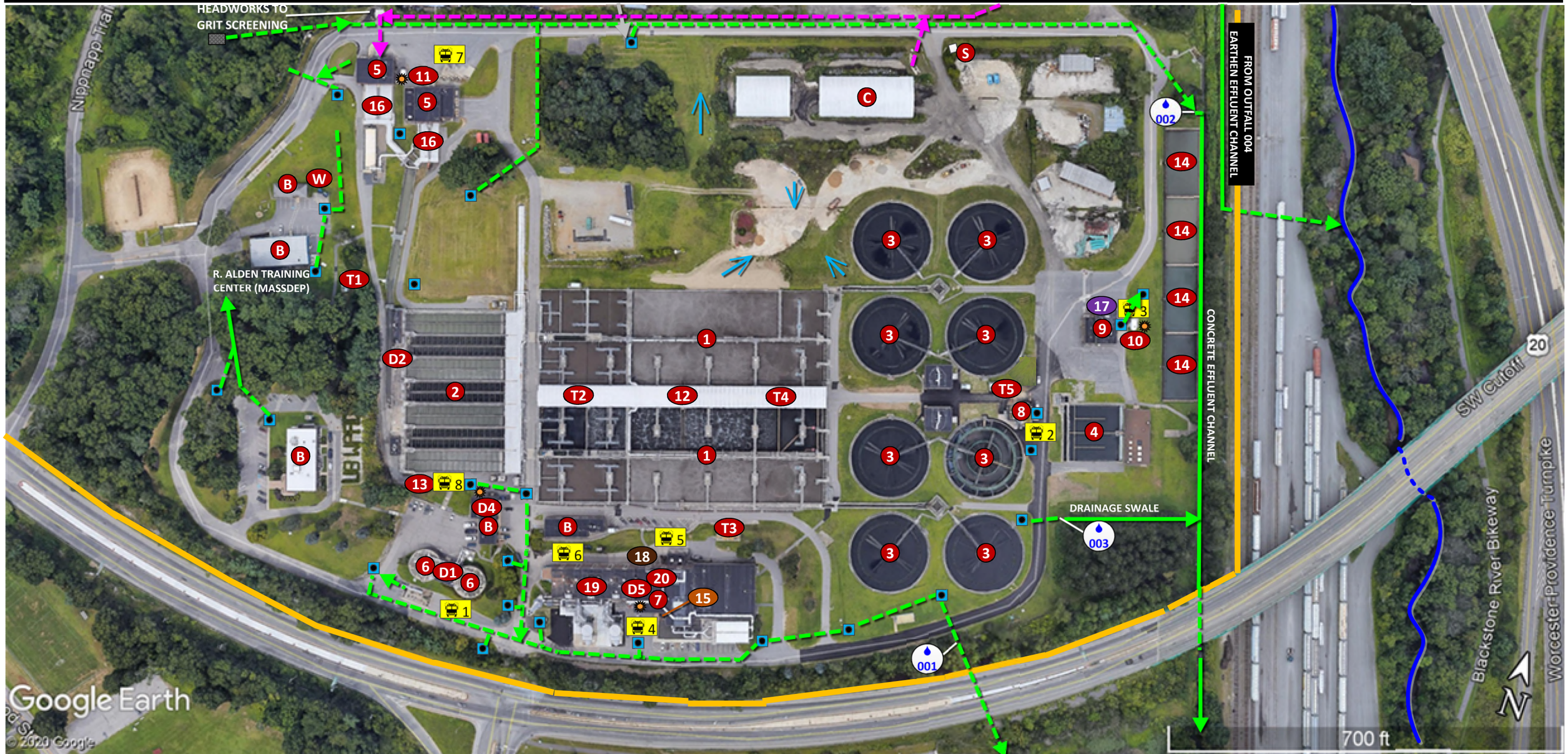
D3 ~5-10 x 55-GAL DRUMS - GEAR, AUTO, & WASTE OIL (BRG GARAGE)

D4 ~1-5 x 55-GAL DRUMS - GEAR, AUTO, & WASTE OIL (MAINT BLDG)

D5 ~40-60 x 55-GAL DRUMS - HYDRAULIC, GEAR, & WASTE OIL (FILTER BLDG)

TOTAL AREA WITHIN UBCW PROPERTY LINE (NORTHERN AND SOUTHERN MAPS) = APPROX. 90 ACRES (APPROX. 10% IMPERVIOUS)

SWPPP & SPCC SITE MAP 2 – UPPER BLACKSTONE CLEAN WATER (SOUTHERN PORTION)

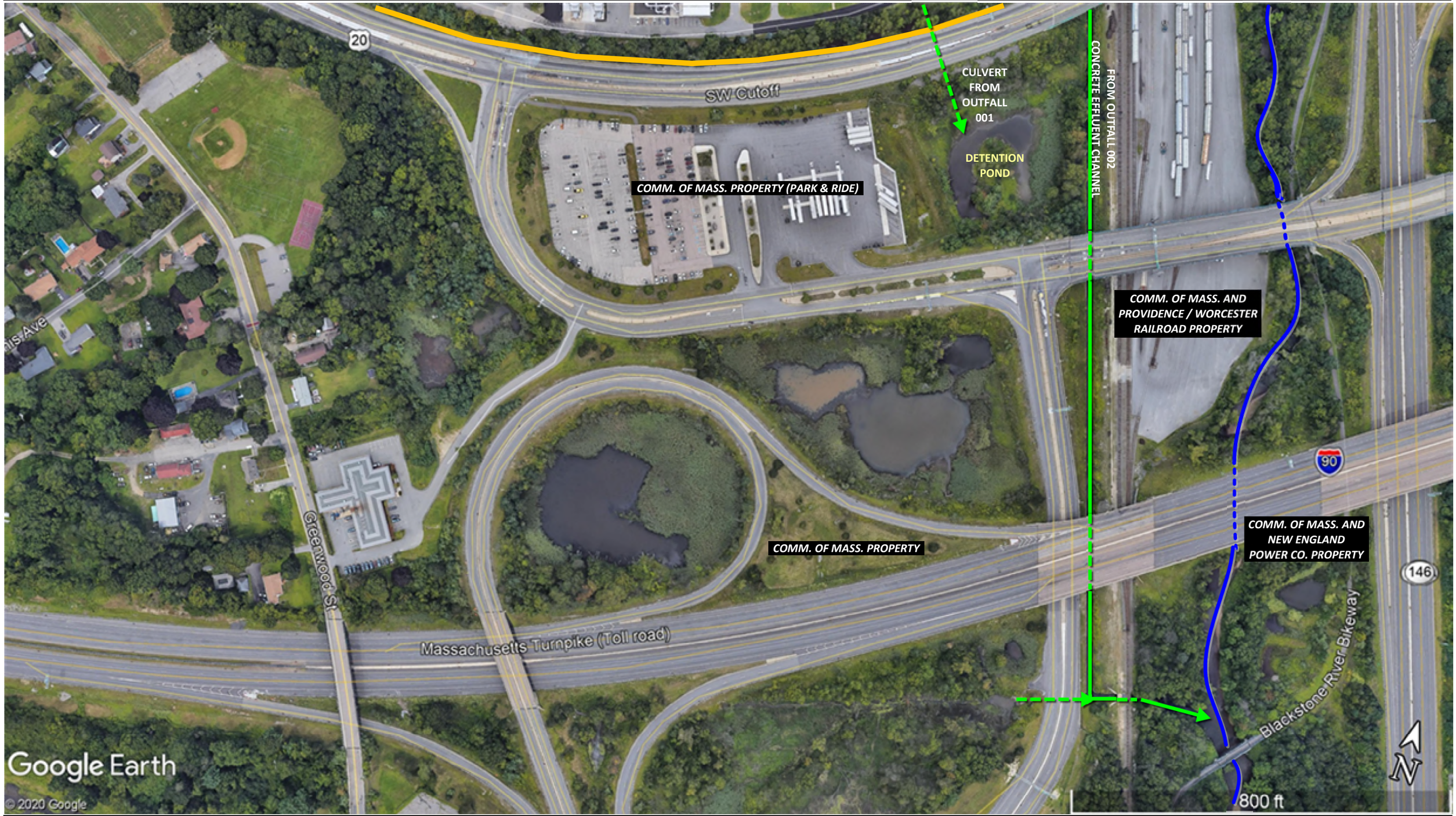


STORMWATER COLLECTION SYSTEM (SURFACE CULVERT)
STORMWATER COLLECTION SYSTEM (BELOW GRADE PIPING WITH CATCH BASINS)
LEACHATE COLLECTION SYSTEM (BELOW GRADE PIPING)
STORMWATER FLOW DIRECTION (SIGNIFICANT SLOPE)
APPROX. UBCW PROPERTY LINE
BLACKSTONE RIVER (ENDPOINT OF OUTFALLS 001-004)
SEE SWPPP FOR TMDL / IMPAIRMENT DETAILS
SCHNITZER STORMWATER

1 BIOREACTOR TANKS – WATER TREATMENT (OPEN)
2 PRIMARY SETTLING TANKS – WATER TREATMENT (OPEN)
3 FINAL SETTLING TANKS – WATER TREATMENT (OPEN)
4 CHLORINE CONTACT TANKS – WATER TREATMENT (OPEN)
5 GRIT AND SCREENING SYSTEMS – WATER TREATMENT
6 SLUDGE HOLDING TANKS
7 SLUDGE PROCESSING COMPLEX / INCINERATORS (INDOOR STORAGE OF NO. 2 FUEL OIL, SODIUM HYDROXIDE, LIQUID POLYMER, & <1% METHANOL A.K.A. MICRO-C)
8 MAGNESIUM HYDROXIDE FACILITY (INDOOR)
9 DISINFECTION BUILDING (INDOOR STORAGE OF SODIUM HYPOCHLORITE AND SODIUM BISULFITE)
10 DISINFECTION BLDG. EMERGENCY GENERATOR (800 GAL NO. 2 FUEL OIL)
11 HEADWORKS BLDG. EMERGENCY GENERATOR (800 GAL. NO. 2 FUEL OIL)
12 4 x AERATION BLOWERS (165-GAL HYDRAULIC OIL EACH) UNDER DOME COVER
13 VEHICLE REFUELING TANK (1000-GAL DIESEL, 1000-GAL GASOLINE COMPARTMENTS)
14 DECOMMISSIONED WATER TANKS (OPEN)
15 FERRIC CHLORIDE TANK
16 AERATED GRIT TANKS
17 SODIUM BISULFITE TANK
18 MICRO-C TANK
19 3 X INCINERATOR FUEL TANKS (9000 GAL NO.2 FUEL OIL EACH) (INCIN. BLDG)
20 4 X SCHWING PUMPS (110 GAL HYDR OIL EACH) (FILTER BLDG)
B ADMIN. OR MAINTENANCE BUILDING
W MUNICIPAL WASTE STORAGE
S SALT STORAGE
SPILL KITS
C CITY OF WORCESTER CATCH BASIN CLEANING FACILITY (UNDER COVER)
STORMWATER OUTFALL
STORMWATER CATCH BASIN
STORMWATER DRAINAGE STRUCTURE

1 SLUDGE DELIVERY AREA INCLUDES TRENCH DRAINS TO SLUDGE TANK BUILDING)
2 MAGNESIUM HYDROXIDE DELIVERY AREA
3 NO. 2 FUEL OIL, SODIUM HYPOCHLORITE, & SODIUM BISULFITE DELIVERY AREA
4 NO. 2 FUEL OIL, FERRIC CHLORIDE, & LIQUID POLYMER DELIVERY AREA
5 SODIUM HYDROXIDE & MICRO-C(<1% METHANOL) DELIVERY AREA
6 ASH COLLECTION AREA
7 SEPTAGE RECEIVING & GRIT LOADING AREA (INCLUDES TRENCH DRAINS TO SCREENING BLDG) & NO. 2 FUEL OIL DELIVERY AREA
8 GASOLINE / DIESEL UNLOADING AND VEHICLE REFUELING AREA

SWPPP & SPCC SITE MAP 3 – UPPER BLACKSTONE CLEAN WATER(OFF-PROPERTY CONNECTION TO BLACKSTONE RIVER)



STORMWATER COLLECTION SYSTEM (SURFACE CULVERT)

STORMWATER COLLECTION SYSTEM (BELOW GRADE PIPING WITH CATCH BASINS)

APPROX. UBCW PROPERTY LINE

BLACKSTONE RIVER (ENDPOINT OF OUTFALLS 001-004) SEE SWPPP FOR IMPAIRMENT / TMDL DETAILS

Attachment C

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

Permit Information

Master Permit Number: MAR050000

NPDES ID: MAR053209

Eligibility Information

State/territory where your facility is discharging: MA

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

Are you a *"Federal Operator"* as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

No

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

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

Yes

Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

No

- **Have stormwater discharges from your facility been covered previously under an NPDES permit?** Yes
  - **If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:**

    MAR053209
- **Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))**

  No

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

UPPER BLACKSTONE WPAD

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)?

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Operator Information

Operator Information

Operator Name: UPPER BLACKSTONE WPAD

Operator Mailing Address

Address Line 1: 50 Route 20

Address Line 2:

City: Millbury

ZIP/Postal Code: 01527

State: MA

County or Similar Division: Worcester

Operator Point of Contact Information

First Name Middle Initial Last Name: Karla Sangrey

Title: Engineer Director/Treasurer

Phone: 5087551286

Ext.: 19

Email: ksangrey@ubcleanwater.org

Facility Information

Facility Information

Facility Name: UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Facility Address

Address Line 1: 50 ROUTE 20

Address Line 2:

City: MILLBURY

ZIP/Postal Code: 01527

State: MA

County or Similar Division: Worcester

Latitude/Longitude for the Facility

Latitude/Longitude: 42.2124°N, 71.788614°W

Latitude/Longitude Data Source: Google Earth

Horizontal Reference Datum: WGS 84

General Facility Information

What is the ownership type of the facility? District

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 90

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: T **Primary Subsector:** T1

Primary Activity Code: TW

Co-Located Sectors:

Co-Located Sector: L **Co-Located Subsector:** L1 **Co-Located Activity Code:** LF

Co-Located Sector: L **Co-Located Subsector:** L2 **Co-Located Activity Code:** LF

Discharge Information

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

Yes

Federal Effluent Limitation Guidelines

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

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 445, Subpart A & B	Runoff from hazardous waste and non-hazardous waste landfills	L	02/28/2000	**Does your facility have any discharges subject to this effluent limitation guideline?** No

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)? No

Receiving Waters Information

List all of the stormwater discharge points from your facility.

Discharge Point 001:

Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1** - All Landfill, Land Application Sites and Open Dumps	LF
☑	**T** - TREATMENT WORKS	**T1** - Treatment Works treating domestic sewage, including land dedicated to the disposal of sewage sludge, with a design flow of 1.0 mgd or more or required to have a pretreatment program under 40 CFR Part 403.	TW
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2** - All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.211574°N, 71.786371°W

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

Receiving Water

GNIS Name: Blackstone River

Waterbody Name: BLACKSTONE RIVER

Listed Water ID: MA51-03

Is this receiving water saltwater or freshwater? Freshwater

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

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

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

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
METALS (OTHER THAN MERCURY)	Lead, total [as Pb]
NUTRIENTS	Phosphorus, total [as P]
PATHOGENS	E. coli
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
TURBIDITY	Solids, total suspended
OIL AND GREASE	Oil & Grease

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 002:

Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1** - All Landfill, Land Application Sites and Open Dumps	LF
☑	**T** - TREATMENT WORKS	**T1** - Treatment Works treating domestic sewage, including land dedicated to the disposal of sewage sludge, with a design flow of 1.0 mgd or more or required to have a pretreatment program under 40 CFR Part 403.	TW
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2** - All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.214426°N, 71.78599°W

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

Receiving Water

GNIS Name: Blackstone River

Waterbody Name: BLACKSTONE RIVER

Listed Water ID: MA51-03

Is this receiving water saltwater or freshwater? Freshwater

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

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

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

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
METALS (OTHER THAN MERCURY)	Lead, total [as Pb]
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PATHOGENS	E. coli
TURBIDITY	Solids, total suspended

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 003:

Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1** - All Landfill, Land Application Sites and Open Dumps	LF
☑	**T** - TREATMENT WORKS	**T1** - Treatment Works treating domestic sewage, including land dedicated to the disposal of sewage sludge, with a design flow of 1.0 mgd or more or required to have a pretreatment program under 40 CFR Part 403.	TW
☐	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2** - All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.212329°N, 71.785969°W

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

Receiving Water

GNIS Name: Blackstone River

Waterbody Name: BLACKSTONE RIVER

Listed Water ID: MA51-03

Is this receiving water saltwater or freshwater? Freshwater

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

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

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

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
METALS (OTHER THAN MERCURY)	Lead, total [as Pb]
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PATHOGENS	E. coli
TURBIDITY	Solids, total suspended

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 004:

Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
☑	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L1** - All Landfill, Land Application Sites and Open Dumps	LF
☑	**T** - TREATMENT WORKS	**T1** - Treatment Works treating domestic sewage, including land dedicated to the disposal of sewage sludge, with a design flow of 1.0 mgd or more or required to have a pretreatment program under 40 CFR Part 403.	TW
☑	**L** - LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS	**L2** - All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF

Latitude/Longitude: 42.215622°N, 71.786591°W

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

Receiving Water

GNIS Name: Blackstone River

Waterbody Name: BLACKSTONE RIVER

Listed Water ID: MA51-03

Is this receiving water saltwater or freshwater? Freshwater

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

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

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

Impaired Waters Monitoring

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

Cause of Impairment Group	Pollutant
METALS (OTHER THAN MERCURY)	Lead, total [as Pb]
OIL AND GREASE	Oil & Grease
NUTRIENTS	Phosphorus, total [as P]
ORGANIC ENRICHMENT/OXYGEN DEPLETION	Oxygen, dissolved percent saturation
PATHOGENS	E. coli

Cause of Impairment Group	Pollutant
TURBIDITY	Solids, total suspended

Has a TMDL been completed for this receiving waterbody? No

SWPPP Information

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

SWPPP Contact Information:

First Name Middle Initial Last Name: Karla Sangrey

Phone: 5087551286 **Ext.:** 19

Email: ksangrey@ubcleanwater.org

SWPPP Availability:

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

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

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

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

Provide the web address URL (e.g. http://www.example.com):

http://ubcleanwater.org/operations/pages/stormwater-pollution-prevention

☐ **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) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).

Determine ESA Eligibility Criterion

Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP?

No

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

No

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

Determine Your Action Area

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

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

  True

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

  True

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

```
The action area chosen was the facility property line. The action area wou
ld not extend outside the facility property line since the review of the
U.S. Fish and Wildlife Services (FWS) tool at http://ecos.fws.gov/ipac/ in
dicated that one threatened species, the Northern Long-Eared Bat, may exis
t in proximity to the facility. This is a non-aquatic (terrestrial) specie
s which would not feasibly be affected by the storm water discharge.
```

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

Name	Uploaded Date	Size
Endangered Species - rev March 2021 (Attachment J).pdf (attachment/704642)	03/19/2021	2.65 MB

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

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

National Marine Fisheries Service (NMFS)

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

General Resources:

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

For the Northeastern U.S.:

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

For Puerto Rico:

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

Western U.S.:

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

Pacific Islands:

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

I have checked the webpages listed above and confirmed that:

There are no NMFS-listed species and/or critical habitat in my action area.

U.S. Fish and Wildlife Service (USFWS)

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

- IPaC (the Information, Planning, and Consultation System) (https://ecos.fws.gov/ipac/)
- For instructions for using IPaC, click here.

I have checked the webpages listed above and confirmed that:

There are FWS-listed species and/or critical habitat in my action area.

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

Name	Uploaded Date	Size
Endangered Species - rev March 2021 (Attachment J).pdf (attachment/704643)	03/19/2021	2.65 MB

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.

Based on a review of the U.S. Fish & Wildlife Services (FWS) using the IPa C Mapping Tool

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

Historic Preservation: Criterion B

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

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

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

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

Will you be constructing or installing any new stormwater control measures? Yes

➜ **Will the stormwater control measures you are constructing or installing disturb subsurface less than one (1) acre?**

Yes

Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?

Yes

You are eligible under **Criterion B**.

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: Karla H. Sangrey

Certifier Title:

Certifier Email: ksangrey@ubwpad.org

Certified On: 04/02/2021 3:38 PM ET

Attachment D

Upper Blackstone Clean Water

Weekly Spill Prevention Control and Countermeasure Inspection Checklist

	Oil Storage Units ***Visually inspect unit, containment structure, and any connected equipment, e.g., valves, piping, and appurtenances such as flange joints***	**OK**	**Action Needed**	**Does Not Apply**	**Inspected by:**
1	Gasoline / Diesel Fueling Station Tank	☐	☐	☐	
2	3 x Incinerator Fuel Tanks	☐	☐	☐	
3	Headworks Emergency Generator	☐	☐	☐	
4	Disinfection Building Emergency Generator	☐	☐	☐	
5	4 x Aeration Centrifugal Blowers (Hydraulic System)	☐	☐	☐	
6	Plant Water Sluice Gate (Hydraulic System)	☐	☐	☐	
7	4 x Filter Building Schwing Pumps (Hydraulic System)	☐	☐	☐	
8	Drum Storage at Filter Building	☐	☐	☐	
9	Drum Storage at Sludge Holding Tank Building	☐	☐	☐	
10	Drum Storage at Primary Settling Tank Building	☐	☐	☐	
11	Drum Storage at Build, Roads, & Grounds (BRG) Garage	☐	☐	☐	
12	Drum Storage at Maintenance Building	☐	☐	☐	
13	2 x Oil-Filled Transformers at Substation 1	☐	☐	☐	
14	2 x Oil-Filled Transformers at Substation 2	☐	☐	☐	
15	2 x Oil-Filled Transformers at Substation 3	☐	☐	☐	
16	2 x Oil-Filled Transformers at Substation 4	☐	☐	☐	
17	2 x Oil-Filled Transformers at Substation 5	☐	☐	☐	
	Other Equipment	**OK**	**Action Needed**	**Does Not Apply**	**Inspected by:**
18	Spill Kit at Headworks - check condition & inventory	☐	☐	☐	
19	Spill Kit at Fueling Station - check condition & inventory	☐	☐	☐	
20	Spill Kit at Sludge Process. Bldg. - check condition & inventory	☐	☐	☐	
21	Spill Kit at Disinfection Bldg. - check condition & inventory	☐	☐	☐	
22	Inspect gas meter cabinet, check calibration & battery charge.	☐	☐	☐	
23	Check/clean emergency showers weekly.	☐	☐	☐	
24	Inventory the first-aid safety kits.	☐	☐	☐	
25	Inspect MSGP permit coverage sign to ensure that it is legible, visible, and factually correct.	☐	☐	☐	
Verification by:				Date:	

Required actions or comments as noted:

Attachment E

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: _____ Year: _____**

Weather Conditions: _____ Date: _____ Time: _____

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☐ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☐ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☐ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☐ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☐ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the <1% Methanol (Micro-C) Fill Pipe?	Yes ☐ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☐ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☐ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☐ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☐ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☐ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☐ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☐ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☐ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☐ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☐ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: _____ Year: _____**

Weather Conditions: _____ Date: _____ Time: _____

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☐ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☐ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☐ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☐ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☐ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☐ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☐ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☐ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☐ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☐ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☐ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☐ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☐ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☐ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☐ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☐ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☐ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☐ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: _____ Year: _____**

Weather Conditions: _____ Date: _____ Time: _____

Notes: _____

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Inspector Name:_____ Inspector Signature:_____

Engineer Director/Treasurer:_____ Engineer Director/Treasurer Signature:_____

Attachment F

UPPER BLACKSTONE CLEAN WATER
WEEKLY ACTIVE LANDFILL INSPECTION

	Exposure to Stormwater	Yes	No	Inspected by:
1	Is there evidence of erosion at the site?	☐	☐	
2	Is there evidence of leachate collection system failure?	☐	☐	
3	Is there evidence of failure of any stabilization or structural control measures?	☐	☐	
4	Is there tracking/blowing of materials into areas exposed to stormwater?	☐	☐	
5	Is there evidence of or potential for pollutants in the drainage system?	☐	☐	
	Stormwater BMP's	**Yes**	**No**	**Inspected by:**
1	Are there BMP's that need to be maintained?	☐	☐	
2	Are there BMP's that failed to operate as designed or were inadequate?	☐	☐	
3	Are there BMP's that need to be modified?	☐	☐	
4	Are additional BMP's needed?	☐	☐	
Verification by:			Date:	

Required actions or comments as noted:

Attachment G

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA**	**Zip Code: 01527**
Outfall Number:	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year:	**Substitute Sample?: No ☐ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample:			
Person(s) / Title(s) examining sample:			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☐ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☐
(explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey_____ B. Title Engineer – Director - Treasurer_____

C. Signature_____ D. Date Signed_____

Attachment J

IPaC Information for Planning and Consultation **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Worcester County, Massachusetts

Local office

New England Ecological Services Field Office

(603) 223-2541
(603) 223-0104

70 Commercial Street, Suite 300
Concord, NH 03301-5094

http://www.fws.gov/newengland

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species

[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. 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.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Northern Long-eared Bat Myotis septentrionalis Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are

available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Black-billed Cuckoo Coccyzus erythropthalmus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink Dolichonyx oryzivorus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler Cardellina canadensis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Lesser Yellowlegs Tringa flavipes This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere

Prairie Warbler Dendroica discolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Rusty Blackbird Euphagus carolinus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
Wood Thrush Hylocichla mustelina This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the AKN Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in

knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER POND
- PABH

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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

IPaC Record Locator: 691-100380898 March 19, 2021

Subject: Consistency letter for the 'UB Map' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Dennis Lowe:

The U.S. Fish and Wildlife Service (Service) received on March 19, 2021 your effects determination for the 'UB Map' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause "take"[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action's effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

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[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

UB Map

2. Description

The following description was provided for the project 'UB Map':

UB Map

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.214327,-71.78930461479277,14z

Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule
This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

   No

2. Will your activity purposefully **Take** northern long-eared bats?

   No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

   Automatically answered
   No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

   Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

   Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

   No

6. Will the action involve Tree Removal?

   No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

0

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

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: March 19, 2021
Consultation Code: 05E1NE00-2021-SLI-1927
Event Code: 05E1NE00-2021-E-06100
Project Name: UB Map

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List

Official Species List

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

This species list is provided by:

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

Project Summary

Consultation Code: 05E1NE00-2021-SLI-1927
Event Code: 05E1NE00-2021-E-06100
Project Name: UB Map
Project Type: WASTEWATER FACILITY
Project Description: UB Map
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.214327,-71.78930461479277,14z

Counties: Worcester County, Massachusetts

Endangered Species Act Species

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

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

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

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

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

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

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

Attachment K

John H. Chafee
BLACKSTONE RIVER VALLEY
National Heritage Corridor Commission

One Depot Square
Woonsocket, RI 02895
tel 401 762 0250 fax
401 762 0530

March 28, 2012

Mr. Dan Van Schalk k, P.E.
Environmental Engineer
CDM Smith, Inc.
50 Hampshire St.
Cambridge, MA 02139

Re: Upper Blackstone Water Pollution Abatement District, Millbury and Worcester, MA
NPDES Storm Water Pollution Prevention Plan
MHC #RC.23032

Dear Mr. Van Schalk k:

Thank you for providing the John H. Chafee Blackstone River Valley National Heritage Corridor Commission with information regarding the Storm Water Pollution Prevention Plan being prepared by CDM Smith, Inc. for the Upper Blackstone Water Pollution Abatement District's wastewater treatment plant. The legislation that established the Corridor gives the Commission the authority to review federally-supported activities to assess their potential effect on natural and historic resources. Federally-supported activities are those that are being conducted by a federal entity or that involve federal funding, licensing or permitting.

CDM Smith is seeking information about cultural resources that could be affected by stormwater discharges from the wastewater treatment plant, which is located on Route 20 in Millbury. The plant is situated just west of the Blackstone Canal, which is listed in the National Register of Historic Places, and the Blackstone River, which the Corridor Commission considers an important natural and cultural resource. The National Park Service considers both the river and canal to be nationally significant and they may be included in a new national park.

Based on the information provided, the Corridor Commission believes that the project is unlikely to affect resources within the Blackstone Canal National Register Historic District or other significant historic or archaeological resources in the area. We note also that staff at the Massachusetts Historical Commission made the same determination in 2002. However, given our strong interest in the river and canal, and the importance of storm water as a potential source of pollution, we would like the opportunity to review the Storm Water Pollution Prevention Plan as it is developed so that we may better understand potential impacts to natural and cultural resources.

These comments are provided pursuant to Section 9 of Public Law 99-647, which established the Blackstone River Valley National Heritage Corridor Commission, and to assist in the Section 106 process. If you have any questions, please do not hesitate to contact Joanna Doherty, Community Planner at our office.

Since ely, _____

Jan H.
Rei sma
Exe tive Director

cc: Brona Simon, Massachusetts Historical Commission
Millbury Historical Commission
Worcester Historical Commission

Smith

50 Hampshire Street
Cambridge, Massachusetts
02139 tel: +1 617 452-6000
fax: +1 617 452-8000
cdmsmith.com

February 23, 2012

Ms. Joanna Doherty
Community Planner
Blackstone Valley National Heritage Corridor Commission
1 Depot Square
Woonsocket, Rhode Island 02895

Subject: NPDES Storm Water Pollution Prevention Plan
Upper Blackstone Water Pollution Abatement District

Dear Ms. Doherty:

On behalf of Upper Blackstone Water Pollution Abatement District, CDM Smith Inc. (CDM Smith) is preparing a Storm Water Pollution Prevention Plan (SWPPP) for their wastewater treatment plant. This facility is located on Route 20 in Millbury, MA. This plan is required under EPA's NPDES Multi-Sector General Permit for industrial storm water discharges. The permit requires identification of historical places, if any, that would be affected by stormwater discharges from the Site.

On behalf of the District, CDM Smith has requested information regarding the presence of listed historic places that could be affected by storm water discharges from this facility from the Massachusetts Historical Commission (MHC). The MHC replied on February 16, 2012 with a letter requesting CDM Smith to provide the project information to you in order to assist in compliance with Section 106 of the National Preservation Act of 1966 (36 CFR 800). Attached is a copy of the February 16, 2012 letter received from the MHC and the project information CDM Smith provided to the MHC.

If you have any questions or comments, please contact me at (617) 452-6315. Very

truly yours,

.2·)7, a/

Dan Van Schalkwyk, P.E.
Environmental Engineer
CDM Smith Inc.

Attachments:
February 16, 2012 Letter from MHC
Project Information

The Commonwealth of Massachusetts

William Francis Galvin, Secretary of the Commonwealth
Massachusetts Historical Commission

February 16, 2012

Dan VanSchalkwyk
Environmental Engineer
CDM Smith
50 Hampshire Street
Cambridge, MA 02139

RE: Upper Blackstone Water Pollution Abatement District, Millbury and Worcester, MA. NPDES Storm Water Pollution Prevention Plan. MHC #RC.23032.

Dear Mr. VanSchalkwyk:

Staff of the Massachusetts Historical Commission (MHC), office of the State Historic Preservation Officer, have received the project information that you submitted for the project referenced above, received by the MHC on January 20, 2012.

Please provide the project information to the Blackstone Valley National Heritage Corridor Commission for their comment:

Joanna Doherty
Community Planner
Blackstone Valley National Heritage Corridor Commission
1 Depot Square
Woonsocket RI 02895

These comments are offered to assist in compliance with Section 106 of the National Historic Preservation Act of 1966 (36 CFR 800). Please contact Edward L. Bell if you have any questions.

Sincerely,

Brona Simon

Brona Simon
State Historic Preservation Officer
Executive Director
Massachusetts Historical Commission

xc:
Lisa P. Jackson, EPA Region 1
Kwabena Kyei-Aboagye, EPA Region 1
David Webster, EPA Region 1 (NPDES Permit Branch Chief)
Joanna Doherty, Blackstone River Valley National Heritage Corridor Commission
Millbury Historical Commission
Worcester Historical Commission

220 Morrissey Boulevard, Boston, Massachusetts 02125
(617) 727-8470 • Fax: (617) 727-5128
www.sec.state.ma.us/mhc

CDM Smith

50 Hampshire Street
Cambridge, Massachusetts
02139 tel: +1 617 452-6000
fax: +1 617 452-8000
cdmsmith.com

January 18, 2012

Massachusetts Historic Commission
220 Morrissey Boulevard
Boston, Massachusetts 02125

Subject: NPDES Storm Water Pollution Prevention Plan
Upper Blackstone Water Pollution Abatement District

Dear Massachusetts Historic Commission:

On behalf of Upper Blackstone Water Pollution Abatement District, CDM Smith Inc. (CDM. Smith) is preparing a Storm Water Pollution Prevention Plan (SWPPP) for their wastewater treatment plant. This facility is located on Route 20 in Millbury, MA, as shown on the attached figure. This plan is required under EPA's NPDES Multi-Sector General Permit for industrial storm water discharges. The permit requires identification of historical places, if any, that would be affected by stormwater discharges from the Site.

On behalf of the District, CDM Smith is requesting information regarding the presence of listed historic places that could be affected by storm water discharges from this facility. In 2002, the District created an initial SWPPP and requested this same information. Attached for reference is the correspondence from 2002.

If you have any questions or comments, please contact me at (617) 452-6315.

Very truly yours,

Dan
VanSchalkwyk, P.E.
Environmental Engineer
CDM Smith Inc.

Attachments:
Project Notification Form
Site Locus
Copy of January 23, 2002 Letter

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: Stormwater Pollution Prevention Plan (SWPPP) for the Upper Blackstone VVWTP

Location / Address: 50 Route 20 City / Town:

Millbury, Massachusetts

Project Proponent

Name: Upper Blackstone Water Pollution Abatement District (UBWPAD)

Address: 50 Route 20

City/Town/Zip/Telephone: Millbury, MA 01527 (508) 755-1286

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name Type of License or funding (specify)

Not Applicable

Project Description (narrative):
A new project is not proposed. For the SWPPP, the **EPA requires UBWPAD to determine if stormwater discharges from the facility have a potential to affect listed historic places. We are requesting a list of any historic places that could be affected by a stormwater discharge from the site.**

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.
Not Applicable

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.
Not Applicable

Does the project include new construction? If so, describe (attach plans and elevations if necessary). Not Applicable

APPENDIX A **(continued)**

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.
No. A review was performed in 2002 that indicated this unlikely to be true (documentation attached).

What is the total acreage of the project area?

Woodland	acres	Productive Resources:	
Wetland	acres	Agriculture	acres
Floodplain	acres	Forestry	• acres
Open space	acres	Mining/Extraction	acres
Developed	acres	Total Project Acreage 90	acres

What is the acreage of the proposed new construction? Not Applicable acres

What is the present land use of the project area?
Wastewater treatment plant and adjacent landfill.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

This Project Notification. Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: Ve, Date: 1/18/2012

Name: Daniel VanSchalkwyk

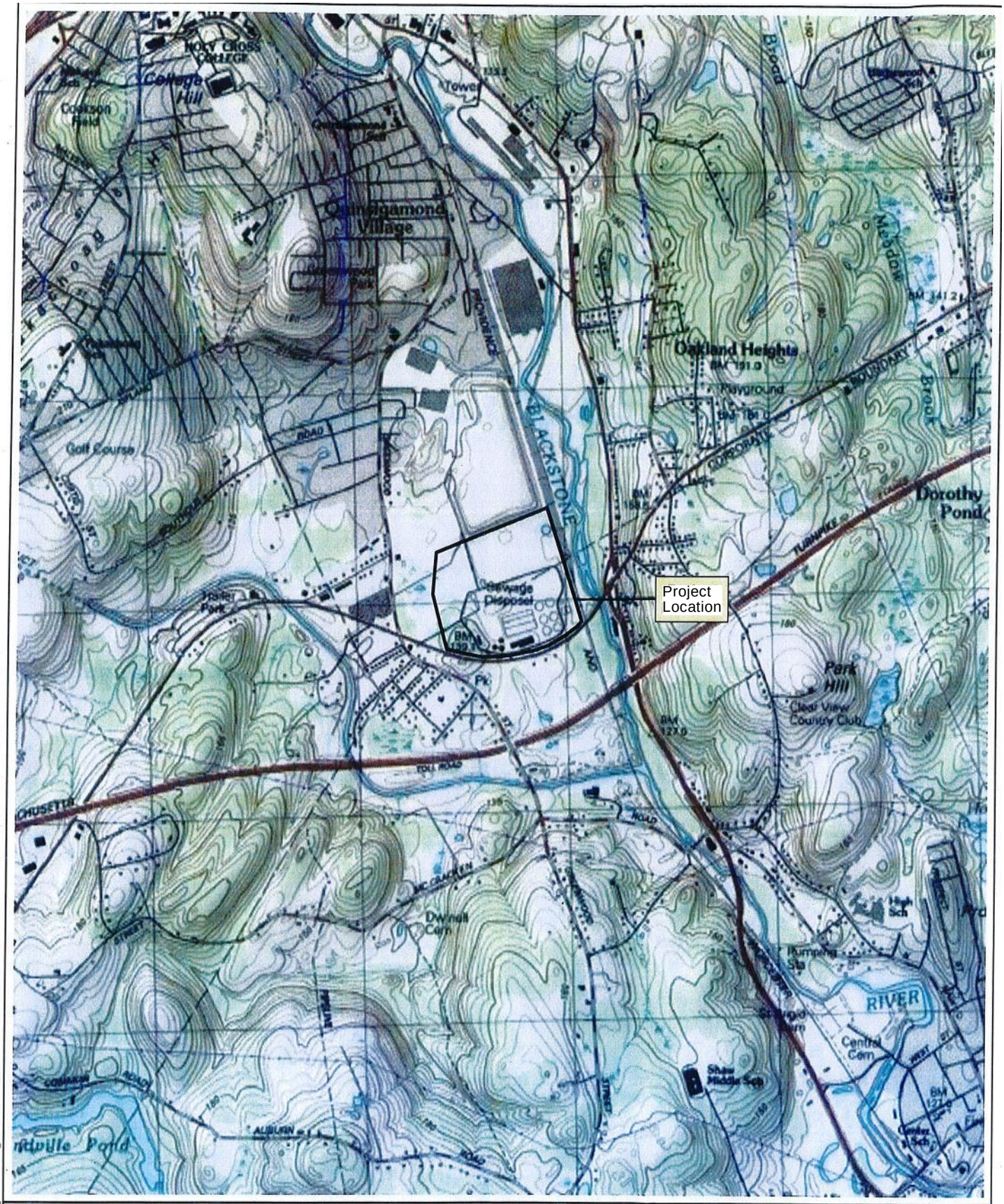
Address: CDM Smith Inc., 50 Hampshire Street

City/Town/Zip: Cambridge, MA 02139

Telephone: (617) 452-6315

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.



Basemap: NGS Topo US 2D (124,00)
Source: ESRI ArcGIS Online, USGS, nd NGS
Coordinate System: NAD83 Mass. St to Plane Mainland (meters)

N

0 1,000 2,000

Feet

Upper Blackstone Water Pollution Abatement District
Millbury, MA

Attachment A
General Location Map

COM Smith

\\CDM038HG4D1\Proj\Upper_Blackstone\WWTPC_ad_locus.mxd MB 01/2011

cn

CDM

One Cambridge Place, SO Hampshire
Street Cainbridge, Massachusetts
02139 tel: 617 452-6000 fax: 617 452-
8000

CEIVED

JAW 2 4 2002

MASS. HIST. COMM

January 23, 2002

Ms. Brona Simon
Massachusetts Historical Commission
220 Morrissey Boulevard
Boston, MA 02125-3314

Subject: NPDES Storm Water Pollution Prevention Plan
Upper Blackstone Water Pollution Abatement District

Dear Ms. Simon:

On behalf of the Upper Blackstone Water Pollution Abatement District, we are preparing a Storm Water Pollution Prevention Plan for their wastewater treatment plant (WWTP). This facility is located on Route 20 in Millbury, MA, as shown on the attached figure. This plan is required under EPA's NPDES Multi-Sector General Permit for industrial storm water discharges. The permit requires the identification of historic places.

On behalf of the District, we are requesting information regarding the presence of listed historic places that could be affected by storm water discharges from this facility.

Thank you for your assistance in this matter. If you have any questions or require additional information, please call me at 617-452-6594.

Very truly yours,

CAMP DllEgqER Sr McKEE INC

Bryon Clemente, P.E.
Environmental Engineer

After review of MHC files and the materials you n! bmi:ted, it has been determined that
op, is unlikely to affect significant
Itisiolic or archaeological resources.

9

. |i

2 7WCI

S. John on
Archaeologi Preservation Planner
Massachusetts Historical
Commission

Date

3(:: :3 2_

Attachment L

Attachment M

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: January to March 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis, or for those with a measurable amount, the storm water discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 8/15/2019

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

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Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: January to March 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis, or for those with a measurable amount, the storm water discharge started within the 72 hour timeframe since the previous significant rainfall.

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Quarter / Year: January to March 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): No observed flow from this outfall for this time period.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: January to March 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis, or for those with a measurable amount, the storm water discharge started within the 72 hour timeframe since the previous significant rainfall.

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Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: April to June 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus, Lab Manager/Rick Vaudry, Lab Technician			
Person(s) / Title(s) examining sample: Tim Loftus, Lab Manager/Rick Vaudry, Lab Technician			
Date & Time Storm or Snowmelt Began: June 10, 9:00 pm. Flow in storm drain started 7 am 6/11.	Date & Time Sample Collected: June 11, 2019 7:34 am.	Date & Time Sample Examined: June 11, 2019 8:00 am.	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 0.38 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): Munsell 10YR 8.5/1 Light tannish gray.		
Odor	None Musty X Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy X Opaque Other (describe):		
Floating Solids	Yes (describe): Organic/leaf particles.		
Settled Solids**	No Yes (describe): Tiny grit particles.		
Suspended Solids	Yes (describe): few		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

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** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No XX Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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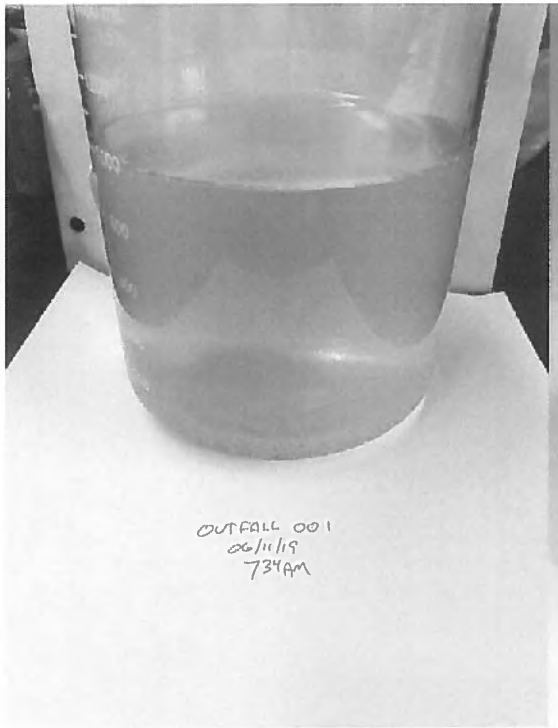


OUTFALL 001 (along fence line of RT 20)

June 11, 2019 07:34 am

Samples by Tim Loftus and Rick Vaudry

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

Sampling Date: Tuesday, June 11, 2019

Method Reference:

Standard Methods for Examination of Water and Wastewater 20th ed., 1998.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum	0.750	6/22/19		Alpha	mg/l	200.8	Alpha
Arsenic	0.001	6/22/19		Alpha	mg/l	200.8	Alpha
Cadmium	0.0005	6/22/19		Alpha	mg/l	200.8	Alpha
Chromium	0.004	6/22/19		Alpha	mg/l	200.8	Alpha
Copper	0.014	6/22/19		Alpha	mg/l	200.8	Alpha
Iron	1.314	6/22/19		Alpha	mg/l	200.8	Alpha
Lead	0.007	6/22/19		Alpha	mg/l	200.8	Alpha
Nickel	0.003	6/22/19		Alpha	mg/l	200.8	Alpha
Zinc	0.136	6/22/19		Alpha	mg/l	200.8	Alpha
Ammonia	0.6	6/11/19		dp	mg/l	350.1	UB
T. Phosphorus	0.14	6/11/19		DA	mg/l	365.2	UB
T. Nitrogen	0.9	6/13/19	6/14/19	dp	mg/l	351.2,353.2	UB
E. coli	>2,419.6	6/11/19	6/12/19	TL	MPN	Colilert	UB
pH	6.9	6/11/19		RV	SU	150.2	UB
Dissolved Oxygen	8.6	6/11/19		RV	mg/l	360.1	UB
Temperature	19.2	6/11/19		RV	deg C	SM 2550	UB
TSS	38.0	6/11/19	6/12/19	RV	mg/l	160.2	UB
Turbidity	28.0	6/11/19		Alpha	NTU	180.1	Alpha

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: April to June 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis._

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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Outfall Number: 003	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: April to June 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

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Sampling not performed due to adverse conditions: No Yes (explain): __

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Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: April to June 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

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(Complete a separate form for each outfall you assess)

me of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: July to September 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Steve Oosterman, Senior Operator			
Person(s) / Title(s) examining sample: Denise Prouty, Lab Technician			
Date & Time Storm or Snowmelt Began: 7/11-7/12 Rain started heavy after midnight.	Date & Time Sample Collected: July 12, 2019 1:10 am.	Date & Time Sample Examined: July 12, 2019 7:30 am.	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount: 0.72 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): pale yellow White page 2.5Y 8.5/2		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): vegetation.		
Settled Solids**	No Yes (describe): small particles		
Suspended Solids	No X Yes (describe):		
Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

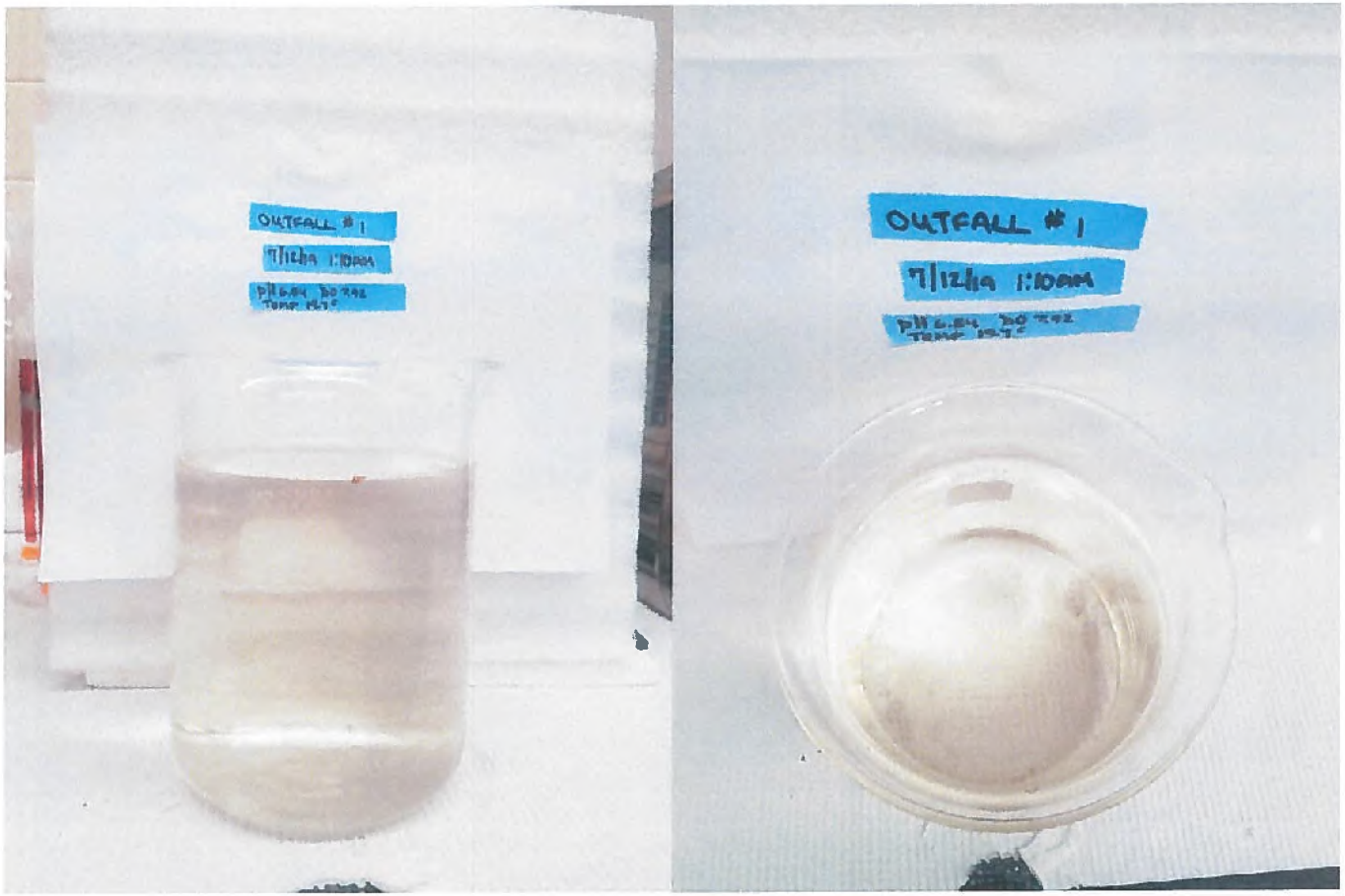
Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 8/15/2019



OUTFALL 001 (along fence line of RT 20)

July 12, 2019 01:10 pm

Sampled by Steve Oosterman

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

Sampling Date: Friday, July 12, 2019

Method Reference:

Standard Methods for Examination of Water and Wastewater 20th ed., 1998.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron					mg/l	200.8	Alpha
Lead					mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus					mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli					MPN	Colilert	UB
pH	6.8	7/12/19		SO	SU	150.2	UB
Dissolved Oxygen	8.0	7/12/19		SO	mg/l	360.1	UB
Temperature	19.7	7/12/19		SO	deg C	SM 2550	UB
TSS					mg/l	160.2	UB
Turbidity					NTU	180.1	Alpha

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measureable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sandrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 12/6/19

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measureable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 2/13/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measureable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 2/13/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 4th 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus, Denise Prouty, Rick Vaudry			
Person(s) / Title(s) examining sample: Denise Prouty, Rick Vaudry			
Date & Time Storm or Snowmelt Began: 10/16/19 6:45 pm	Date & Time Sample Collected: 10/16/19 11:52 pm	Date & Time Sample Examined: 10/17/19 1:30 pm	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 1.81 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): Munsell 2.5 Y 8/1		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe): Earthy		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): some organic particles		
Settled Solids**	No Yes (describe): Small grit particles.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No XX Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Rain started late in the day on 10/16/19 with 1.81 inches. During 10/17/19 we received an additional 1.62 inches. Total for the storm was 3.43 inches.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 2/13/2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

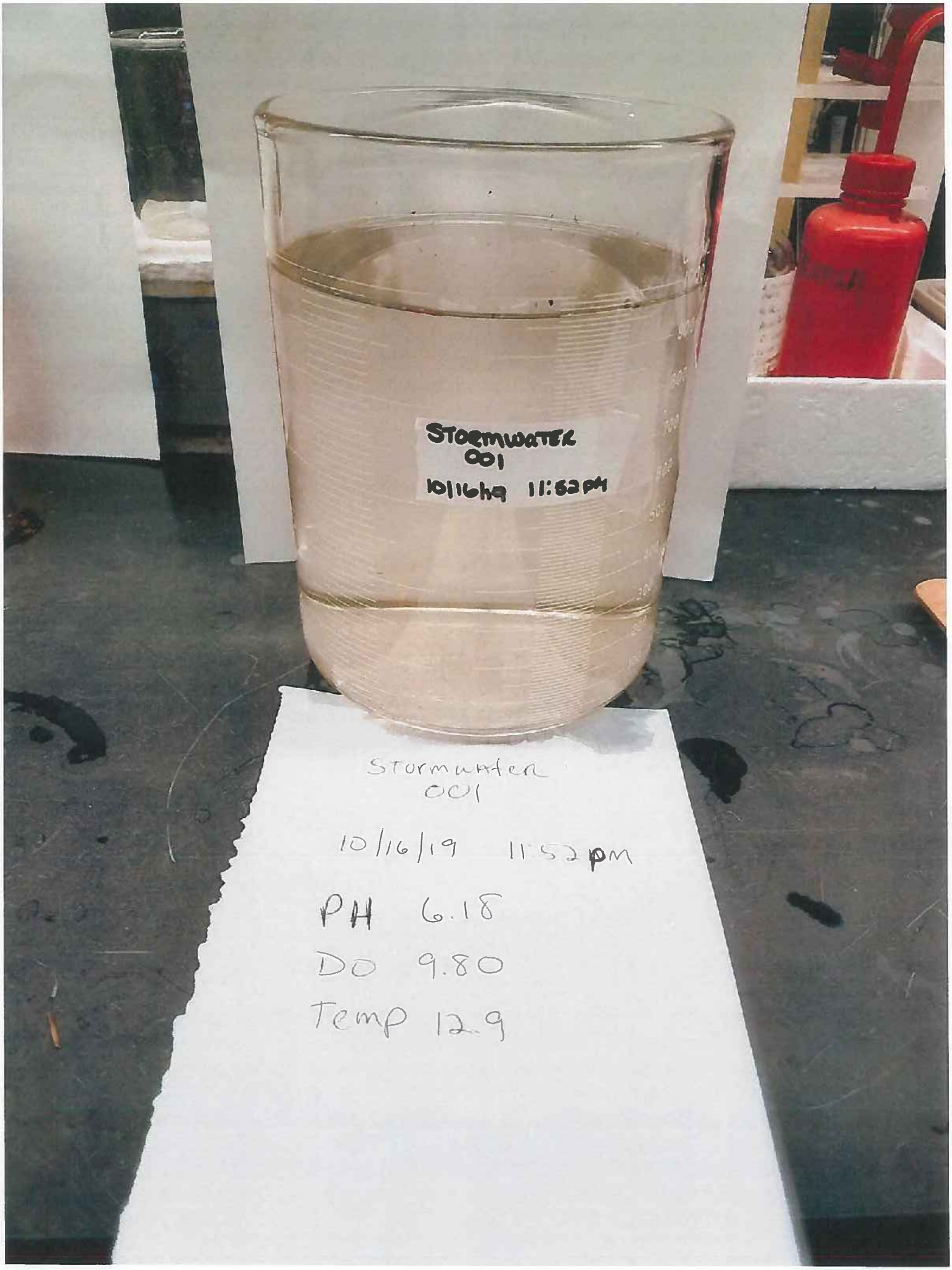
Outfall 1 Treatment Sector T

Sampling Date: Wednesday, October 16, 2019

Method Reference:

Standard Methods for Examination of Water and Wastewater 20th ed., 1998.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron					mg/l	200.8	Alpha
Lead					mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus					mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli					MPN	Colilert	UB
pH	6.2	10/16/19		DP/RV/TL	SU	150.2	UB
Dissolved Oxygen	9.8	10/16/19		DP/TL/RV	mg/l	360.1	UB
Temperature	12.9	10/16/19		DP/TL/RV	deg C	SM 2550	UB
TSS					mg/l	160.2	UB
Turbidity					NTU	180.1	Alpha


STORMWATER
001
10/16/19 11:52PM
Stormwater
001
10/16/19 11:52pm
PH 6.18
DO 9.80
Temp 12.9

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 4th 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus, Denise Prouty, Rick Vaudry			
Person(s) / Title(s) examining sample: Denise Prouty, Rick Vaudry			
Date & Time Storm or Snowmelt Began: 10/16/19 6:45 pm	Date & Time Sample Collected: 10/17/19 12:02 am	Date & Time Sample Examined: 10/17/19 2:00 am	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 1.81 inches 10/16	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): Munsell 2.5 Y 7/2		
Odor	None Musty X Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy X Opaque Other (describe):		
Floating Solids	No Yes (describe): some organic particles		
Settled Solids**	No Yes (describe): Small grit particles.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No XX Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Rain started late in the day on 10/16/19 with 1.81 inches. During 10/17/19 we received an additional 1.62 inches. Total for the storm was 3.43 inches.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 2/13/2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

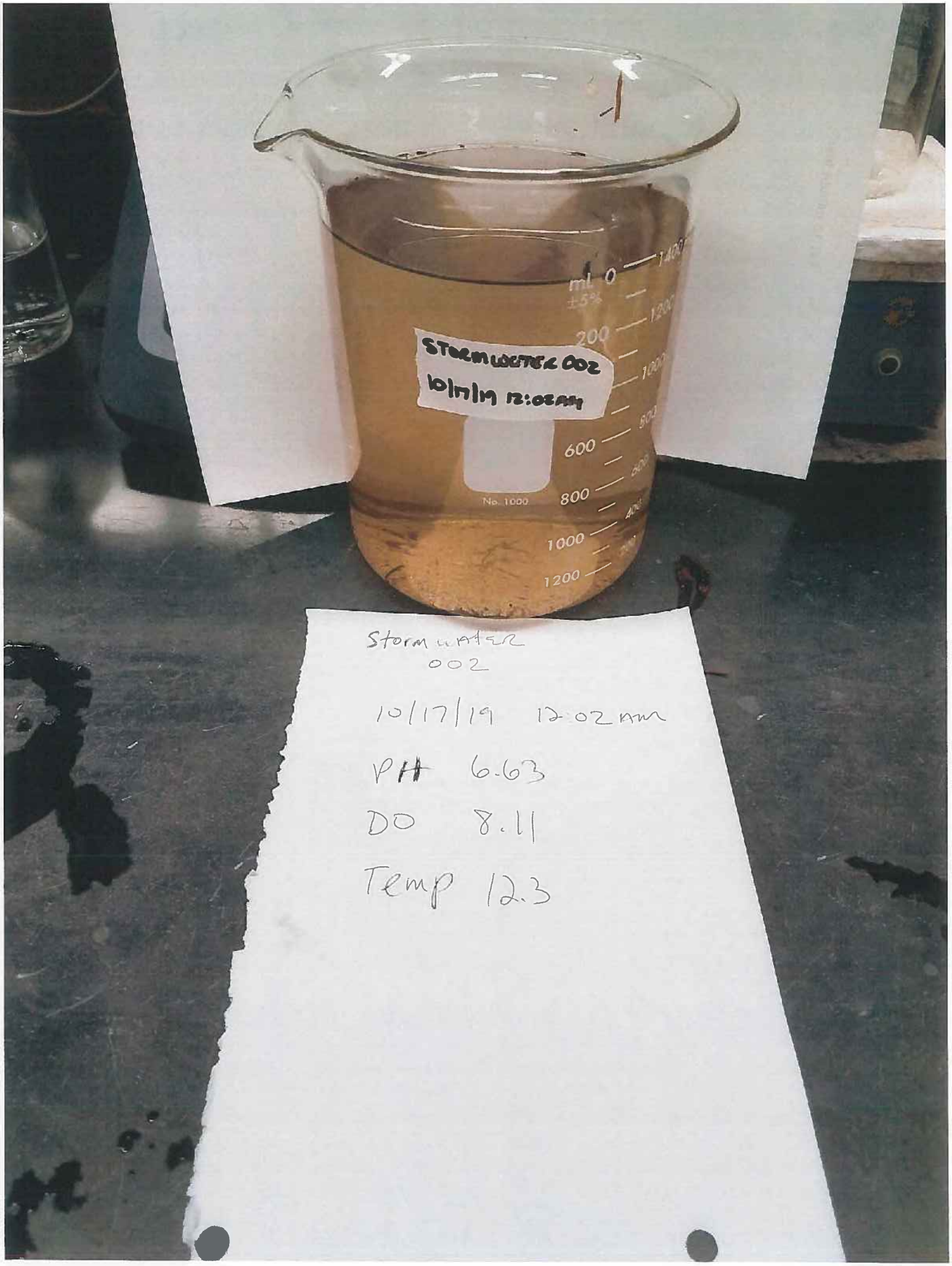
Outfall 2 Treatment Sector T

Sampling Date: Thursday, October 17, 2019

Method Reference:

Standard Methods for Examination of Water and Wastewater 20th ed., 1998.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.7	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron	1.880	10/23		Alpha	mg/l	200.7	Alpha
Lead					mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus					mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli IN				RV/DP	MPN	Colilert	UB
E. coli OUT	9,804.0	10/17/19	10/18/19	MU	MPN	Colilert	UB
pH	6.6	10/17/19		DP/TL/RV	SU	150.2	UB
Dissolved Oxygen	8.1	10/17/19		RV/DP/TL	mg/l	360.1	UB
Temperature	12.3	10/17/19		RV/TL/DP	deg. C	SM 2550	UB
TSS					mg/l	160.2	UB
Turbidity					NTU	180.1	Alpha



Stormwater
002

10/17/19 12:02AM

PH 6.63

DO 8.11

Temp 12.3

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: October to December 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis, or for those with a measurable amount, the storm water discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 3/12/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: October to December 2019	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter did not produce a measurable discharge that could be collected for analysis, or for those with a measurable amount, the storm water discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 3/12/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: T. Loftus (Lab Manager), R. Vaudry (Lab Tech), D. Avery (Lab Tech)			
Person(s) / Title(s) examining sample: R. Vaudry (Lab Tech), D. Avery (Lab Tech)			
Date & Time Storm or Snowmelt Began: March 19, 2020. 05:40 am	Date & Time Sample Collected: March 19, 2020. 06:30 am	Date & Time Sample Examined: March 19, 2020. 08:45 am	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: 0.73 inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): slight gray tint white page N/9		
Odor	None Musty (slight) Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No	Yes (describe): little organic particles	
Settled Solids**	No	Yes (describe): organic, seed, tree matter	
Suspended Solids	No	Yes (describe): organic (tree matter)	
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). Photos and rainfall data attached.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 5-6-2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

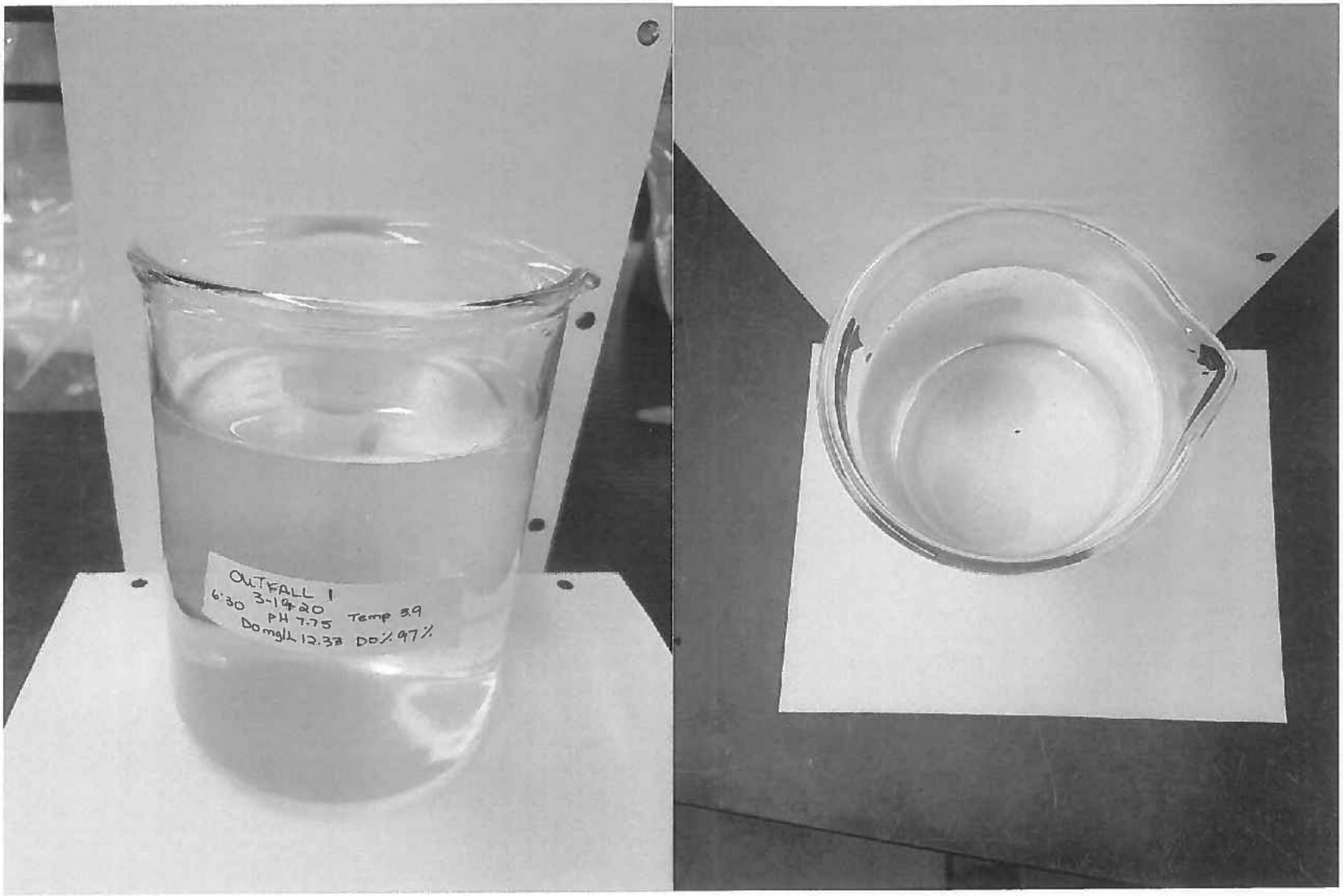
Outfall 1 Treatment Sector T

Sampling Date: Thursday, March 19, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum	0.143	3/25/20		Alpha	mg/l	200.8	Alpha
Arsenic	0.001	3/25/20		Alpha	mg/l	200.8	Alpha
Cadmium	<0.0002	3/25/20		Alpha	mg/l	200.8	Alpha
Chromium	0.002	3/25/20		Alpha	mg/l	200.8	Alpha
Copper	0.006	3/25/20		Alpha	mg/l	200.8	Alpha
Iron	0.233	3/25/20		Alpha	mg/l	200.8	Alpha
Lead	0.003	3/25/20		Alpha	mg/l	200.8	Alpha
Nickel	0.002	3/25/20		Alpha	mg/l	200.8	Alpha
Zinc	0.054	3/25/20		Alpha	mg/l	200.8	Alpha
Ammonia	0.4	3/19/2020		DP	mg/l	350.1	UB
T. Phosphorus	0.11	3/24/20		OP	mg/l	365.2	UB
T. Nitrogen	1.3	3/23/20		OP	mg/l	351.2,353.2	UB
E. coli	3.0	3/19/2020	3/20/2020	RV, DA	MPN	Colilert	UB
pH	7.8	3/19/2020		TL, RV,DA	SU	150.2	UB
Dissolved Oxygen	12.3	3/19/2020		TL,RV,DA	mg/l	360.1	UB
Dissolved Oxygen	97.0	3/19/2020		TL, RV, DA	%	360.1	UB
Temperature	3.9	3/19/2020		TL,RV,DA	deg C	SM 2550	UB
TSS	6.0	3/19/2020	3/20/2020	DA	mg/l	160.2	UB
Turbidity	8.1	3/21/20		Alpha	NTU	180.1	Alpha



Stormwater Outfall 001 March 19, 2020

Search Locations

Log in

Popular Cities

San Francisco, CA 49 °F Partly Cloudy

Manhattan, NY 49 °F Fog

Schiller Park, IL (60176) 40 °F Cloudy

Boston, MA 43 °F Cloudy

42.26 °N, 71.87 °W

Worcester, MA Weather History

40° WORCESTER REGIONAL AIRPORT STATION (/WEATHER/US/MA/WORCESTER/KORH?CM_VEN=LOCALWX_PWSDASH) | CHANGE

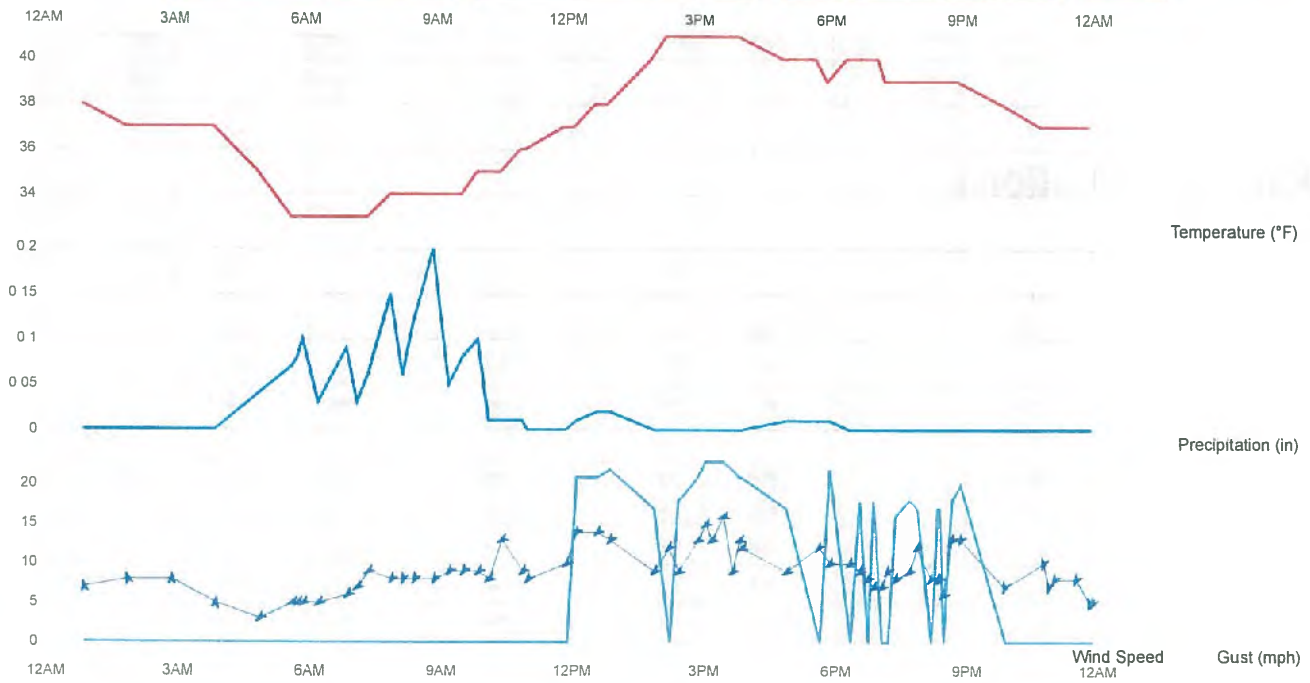
HISTORY (/HISTORY/DAILY/US/MA/WORCESTER/KORH)

- TODAY (/WEATHER/US/MA/WORCESTER/KORH)
- HOURLY (/HOURLY/US/MA/WORCESTER/KORH)
- 10-DAY (/FORECAST/US/MA/WORCESTER/KORH)
- CALENDAR (/CALENDAR/US/MA/WORCESTER/KORH)
- HISTORY (/HISTORY/DAILY/US/MA/WORCESTER/KORH)
- WUNDERMAP (/WUNDERMAP?LAT=42.263&LON=-71.87)

Daily Weekly Monthly

(/history/daily/u[illegible]KORH/date/2020-3-19) 3-19) 3)

March 19 2020 View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	41	44	78
Low Temp	33	27	-4
Day Average Temp	37 48	36	-

Precipitation (Inches)	Actual	Historic Avg	Record

Temperature (° F)	Actual	Historic Avg	Record
Precipitation (past 24 hours from 11:54:00)	0.38	0.14	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	35.02	-	-
High	39	-	-
Low	23	-	-
Average	35.02	-	-

Wind (MPH)	Actual	Historic Avg	Record
Max Wind Speed	16	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	29.31	-	-

Astronomy	Day Length	Rise	Set
Actual Time	12h 6m	6:53 AM	6:59 PM
Civil Twilight		6:25 AM	7:27 PM
Nautical Twilight		5:52 AM	8:00 PM
Astronomical Twilight		5:18 AM	8:33 PM
Moon: waning crescent		4:51 AM	2:22 PM

Daily Observations

12:54 AM	38 °F	23 °F	55 %	S	7 mph	0 mph	29.31 in	0.0 in	Fair
1:54 AM	37 °F	26 °F	65 %	SSE	8 mph	0 mph	29.29 in	0.0 in	Cloudy
2:54 AM	37 °F	26 °F	65 %	S	8 mph	0 mph	29.29 in	0.0 in	Cloudy
3:54 AM	37 °F	27 °F	67 %	S	5 mph	0 mph	29.28 in	0.0 in	Cloudy
4:54 AM	35 °F	29 °F	78 %	NE	3 mph	0 mph	29.28 in	0.0 in	Light Snow
5:39 AM	33 °F	30 °F	89 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
5:47 AM	33 °F	30 °F	89 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
5:54 AM	33 °F	31 °F	92 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
6:15 AM	33 °F	31 °F	92 %	ENE	5 mph	0 mph	29.27 in	0.0 in	Light Rain
6:54 AM	33 °F	31 °F	92 %	NE	6 mph	0 mph	29.26 in	0.1 in	Rain
7:08 AM	33 °F	31 °F	92 %	ENE	7 mph	0 mph	29.25 in	0.0 in	Rain
7:23 AM	33 °F	32 °F	96 %	ENE	9 mph	0 mph	29.25 in	0.1 in	Rain
7:54 AM	34 °F	32 °F	92 %	NE	8 mph	0 mph	29.26 in	0.1 in	Rain
8:11 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.28 in	0.1 in	Rain
8:26 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.27 in	0.1 in	Rain
8:54 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.29 in	0.2 in	Rain
9:14 AM	34 °F	32 °F	92 %	NE	9 mph	0 mph	29.28 in	0.1 in	Rain
9:33 AM	34 °F	32 °F	92 %	NE	9 mph	0 mph	29.29 in	0.1 in	Light Rain
9:54 AM	35 °F	33 °F	92 %	NE	9 mph	0 mph	29.27 in	0.1 in	Light Rain
10:08 AM	35 °F	33 °F	92 %	ENE	8 mph	0 mph	29.26 in	0.0 in	Light Rain
10:26 AM	35 °F	34 °F	96 %	ENE	13 mph	0 mph	29.24 in	0.0 in	Light Rain
10:54 AM	36 °F	34 °F	93 %	NE	9 mph	0 mph	29.23 in	0.0 in	Fog

11:01 AM	36 °F	34 °F	93 %	NE	8 mph	0 mph	29.23 in	0.0 in	Fog
11:54 AM	37 °F	36 °F	96 %	NE	10 mph	0 mph	29.23 in	0.0 in	Light Rain
12:08 PM	37 °F	36 °F	96 %	NE	14 mph	21 mph	29.23 in	0.0 in	Wintry Mix
12:37 PM	38 °F	36 °F	93 %	NE	14 mph	21 mph	29.21 in	0.0 in	Fog
12:54 PM	38 °F	37 °F	97 %	NE	13 mph	22 mph	29.19 in	0.0 in	Fog
1:54 PM	40 °F	39 °F	97 %	NE	9 mph	17 mph	29.16 in	0.0 in	Fog
2:14 PM	41 °F	39 °F	93 %	NE	12 mph	0 mph	29.16 in	0.0 in	Fog
2:27 PM	41 °F	39 °F	93 %	ENE	9 mph	18 mph	29.15 in	0.0 in	Fog
2:54 PM	41 °F	39 °F	93 %	ENE	13 mph	21 mph	29.12 in	0.0 in	Light Rain
3:05 PM	41 °F	39 °F	93 %	ENE	15 mph	23 mph	29.10 in	0.0 in	Fog
3:13 PM	41 °F	39 °F	93 %	ENE	13 mph	23 mph	29.10 in	0.0 in	Fog
3:29 PM	41 °F	39 °F	93 %	ENE	16 mph	23 mph	29.12 in	0.0 in	Light Rain
3:41 PM	41 °F	39 °F	93 %	NE	9 mph	22 mph	29.14 in	0.0 in	Light Rain
3:51 PM	41 °F	39 °F	93 %	ENE	13 mph	21 mph	29.14 in	0.0 in	Fog
3:54 PM	41 °F	39 °F	93 %	ENE	12 mph	21 mph	29.14 in	0.0 in	Light Rain
4:54 PM	40 °F	38 °F	93 %	ENE	9 mph	17 mph	29.15 in	0.0 in	Fog
5:39 PM	40 °F	38 °F	93 %	NE	12 mph	0 mph	29.12 in	0.0 in	Fog
5:54 PM	39 °F	37 °F	93 %	NE	10 mph	22 mph	29.11 in	0.0 in	Cloudy
6:21 PM	40 °F	38 °F	93 %	NE	10 mph	0 mph	29.12 in	0.0 in	Fog
6:35 PM	40 °F	38 °F	93 %	NE	9 mph	18 mph	29.12 in	0.0 in	Cloudy
6:45 PM	40 °F	38 °F	93 %	NE	8 mph	0 mph	29.12 in	0.0 in	Fog
6:54 PM	40 °F	38 °F	93 %	NE	7 mph	18 mph	29.13 in	0.0 in	Fog
7:04 PM	40 °F	38 °F	93 %	NE	7 mph	0 mph	29.13 in	0.0 in	Light Rain
7:13 PM	39 °F	38 °F	96 %	NE	9 mph	0 mph	29.14 in	0.0 in	Light Rain
7:24 PM	39 °F	37 °F	93 %	NE	8 mph	16 mph	29.14 in	0.0 in	Cloudy
7:43 PM	39 °F	37 °F	93 %	NE	9 mph	18 mph	29.13 in	0.0 in	Fog
7:54 PM	39 °F	38 °F	96 %	NE	12 mph	17 mph	29.12 in	0.0 in	Fog
8:12 PM	39 °F	38 °F	96 %	NE	8 mph	0 mph	29.13 in	0.0 in	Fog
8:22 PM	39 °F	37 °F	93 %	NE	8 mph	17 mph	29.12 in	0.0 in	Fog
8:25 PM	39 °F	38 °F	96 %	NE	8 mph	17 mph	29.12 in	0.0 in	Cloudy
8:29 PM	39 °F	38 °F	96 %	NE	6 mph	0 mph	29.12 in	0.0 in	Fog
8:42 PM	39 °F	37 °F	93 %	NE	13 mph	18 mph	29.12 in	0.0 in	Cloudy
8:54 PM	39 °F	37 °F	93 %	NNE	13 mph	20 mph	29.12 in	0.0 in	Cloudy
9:54 PM	38 °F	36 °F	93 %	NNE	7 mph	0 mph	29.12 in	0.0 in	Cloudy
10:47 PM	37 °F	36 °F	96 %	NNE	10 mph	0 mph	29.10 in	0.0 in	Fog
10:54 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	29.10 in	0.0 in	Fog
11:02 PM	37 °F	36 °F	96 %	NNE	8 mph	0 mph	29.10 in	0.0 in	Cloudy
11:32 PM	37 °F	35 °F	93 %	NNE	8 mph	0 mph	29.08 in	0.0 in	Fog
11:50 PM	37 °F	36 °F	93 %	NNE	5 mph	0 mph	29.08 in	0.0 in	Cloudy
11:54 PM	37 °F	36 °F	96 %	NNE	5 mph	0 mph	29.08 in	0.0 in	Fog

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: T. Loftus (Lab Manager), R. Vaudry (Lab Tech), D. Avery (Lab Tech)			
Person(s) / Title(s) examining sample: R. Vaudry (Lab Tech), D. Avery (Lab Tech)			
Date & Time Storm or Snowmelt Began: March 19, 2020. 05:40 am	Date & Time Sample Collected: March 19, 2020. 06:48 am	Date & Time Sample Examined: March 19, 2020. 08:43 am	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: 0.73 inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): light straw 5Y 8/3 in soil color book		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas (slight) Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No Yes (describe): organic - seeds		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). Photos and rainfall data attached.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 5-6-2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

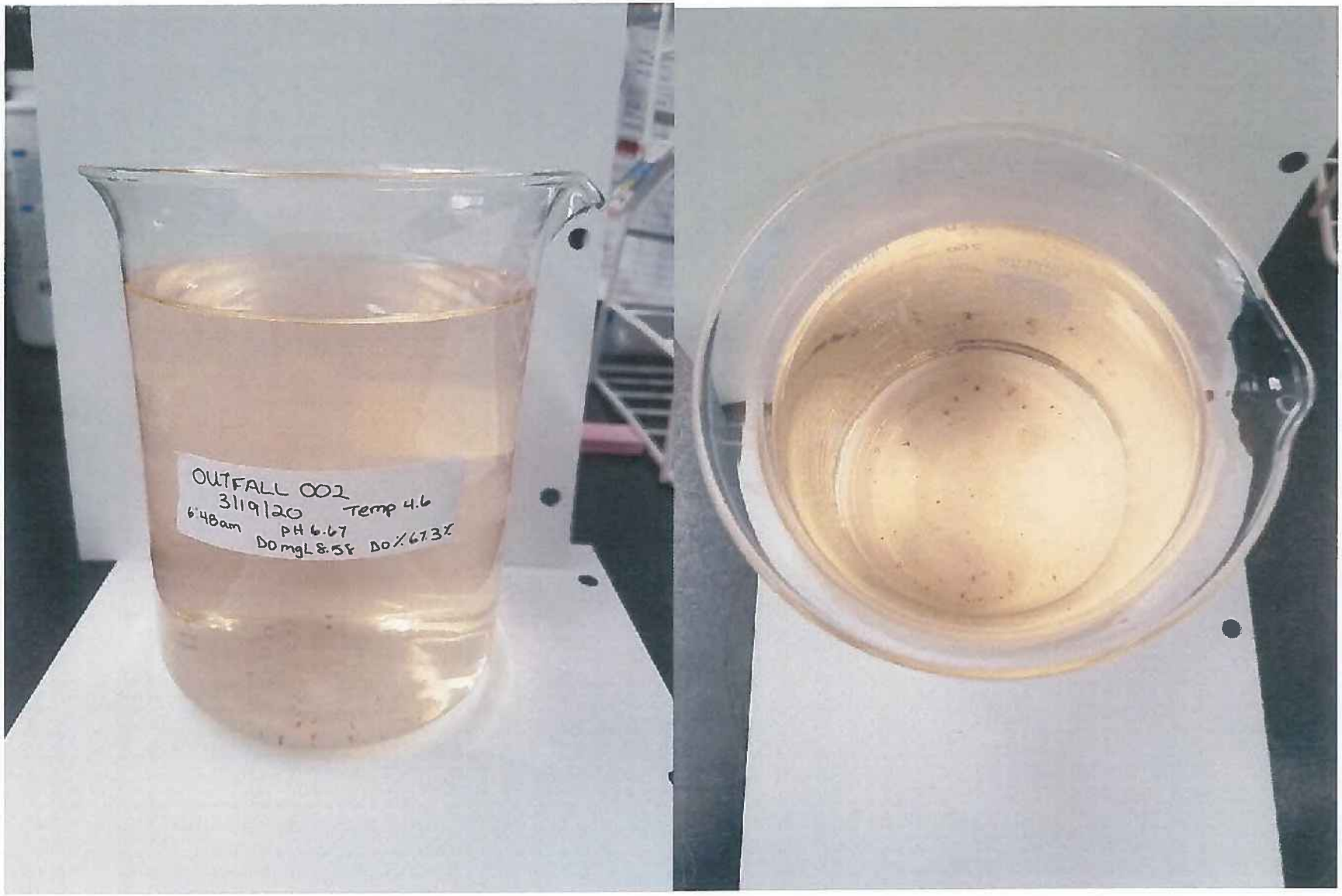
Outfall 2 Treatment Sector T

Sampling Date: Thursday, March 19, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum	0.047	3/25/20		Alpha	mg/l	200.8	Alpha
Arsenic	0.004	3/25/20		Alpha	mg/l	200.7	Alpha
Cadmium	0.0006	3/25/20		Alpha	mg/l	200.8	Alpha
Chromium	0.003	3/25/20		Alpha	mg/l	200.8	Alpha
Copper	0.005	3/25/20		Alpha	mg/l	200.8	Alpha
Iron	5.205	3/25/20		Alpha	mg/l	200.7	Alpha
Lead	0.002	3/25/20		Alpha	mg/l	200.8	Alpha
Nickel	0.004	3/25/20		Alpha	mg/l	200.8	Alpha
Zinc	0.026	3/25/20		Alpha	mg/l	200.8	Alpha
Ammonia	2.6	3/19/2020		DP	mg/l	350.1	UB
T. Phosphorus	0.13	3/24/20		OP	mg/l	365.2	UB
T. Nitrogen	4.0	3/23/20		OP	mg/l	351.2,353.2	UB
E. coli IN					MPN	Colilert	UB
E. coli OUT	1.0	3/19/2020	3/20/2020	RV,DA/	MPN	Colilert	UB
pH	6.7	3/19/2020		TL,RV,DA	SU	150.2	UB
Dissolved Oxygen	8.6	3/29/2020		TL,RV,DA	mg/l	360.1	UB
Dissolved Oxygen	67.3	3/29/2020		TL.RV,DA	%	360.1	UB
Temperature	4.6	3/29/2020		TL.RV,DA	deg. C	SM 2550	UB
TSS	4.0	3/19/2020	3/20/2020	DA	mg/l	160.2	UB
Turbidity	13.0	3/21/20		Alpha	NTU	180.1	Alpha



Stormwater Outfall 002 March 19, 2020

42.26 °N, 71.87 °W

Worcester, MA Weather History

40° WORCESTER REGIONAL AIRPORT STATION (/WEATHER/US/MA/WORCESTER/KORH?CM_VEN=LOCALWX_PWSDASH) | CHANGE

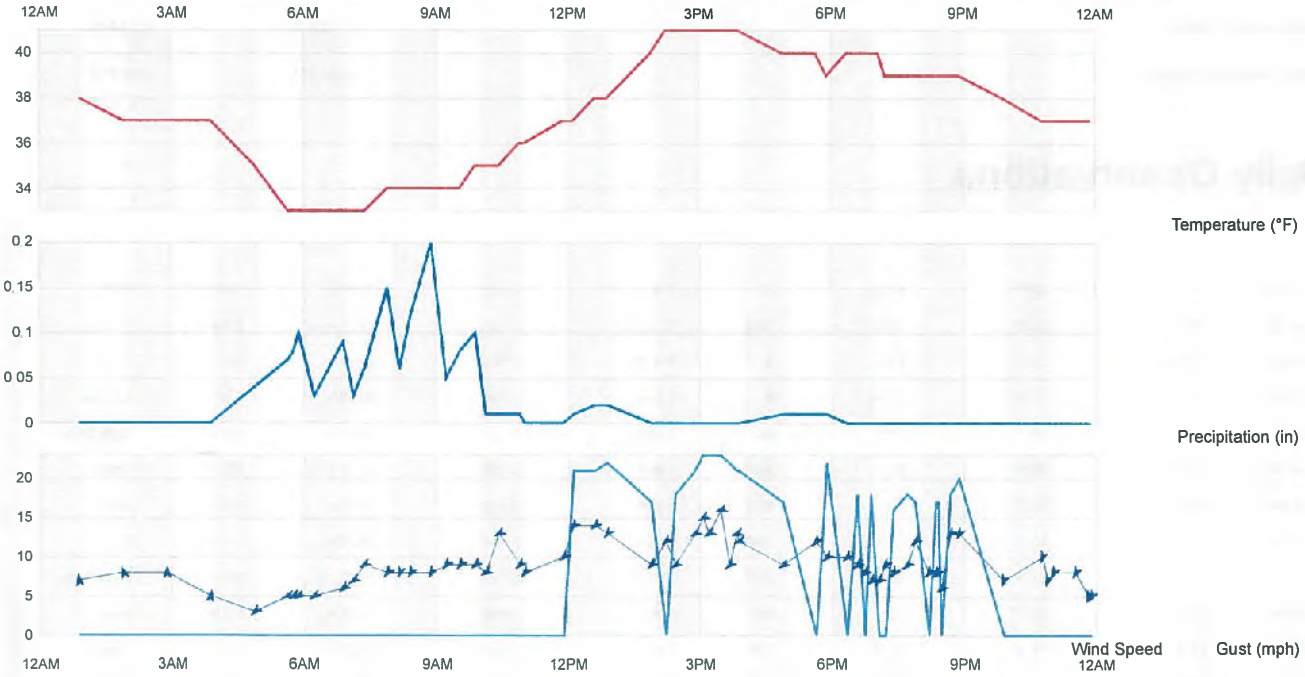
HISTORY (/HISTORY/DAILY/US/MA/WORCESTER/KORH)

- TODAY (/WEATHER/US/MA/WORCESTER/KORH)
- HOURLY (/HOURLY/US/MA/WORCESTER/KORH)
- 10-DAY (/FORECAST/US/MA/WORCESTER/KORH)
- CALENDAR (/CALENDAR/US/MA/WORCESTER/KORH)
- HISTORY (/HISTORY/DAILY/US/MA/WORCESTER/KORH)
- WUNDERMAP (/WUNDERMAP?LAT=42.263&LON=-71.87)

Daily | Weekly | Monthly

(/history/daily/[illegible]/KORH/date/2020-3-19) 3-19) 3)

March | 19 | 2020 | View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	41	44	78
Low Temp	33	27	-4
Day Average Temp	37.48	36	-

Precipitation (Inches)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Precipitation (past 24 hours from 11:54:00)	0.38	0.14	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	35.02	-	-
High	39	-	-
Low	23	-	-
Average	35.02	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	16	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	29.31	-	-

Astronomy	Day Length	Rise	Set
Actual Time	12h 6m	6:53 AM	6:59 PM
Civil Twilight		6:25 AM	7:27 PM
Nautical Twilight		5:52 AM	8:00 PM
Astronomical Twilight		5:18 AM	8:33 PM
Moon: waning crescent		4:51 AM	2:22 PM

Daily Observations

12:54 AM	38 °F	23 °F	55 %	S	7 mph	0 mph	29.31 in	0.0 in	Fair
1:54 AM	37 °F	26 °F	65 %	SSE	8 mph	0 mph	29.29 in	0.0 in	Cloudy
2:54 AM	37 °F	26 °F	65 %	S	8 mph	0 mph	29.29 in	0.0 in	Cloudy
3:54 AM	37 °F	27 °F	67 %	S	5 mph	0 mph	29.28 in	0.0 in	Cloudy
4:54 AM	35 °F	29 °F	78 %	NE	3 mph	0 mph	29.28 in	0.0 in	Light Snow
5:39 AM	33 °F	30 °F	89 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
5:47 AM	33 °F	30 °F	89 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
5:54 AM	33 °F	31 °F	92 %	ENE	5 mph	0 mph	29.27 in	0.1 in	Rain
6:15 AM	33 °F	31 °F	92 %	ENE	5 mph	0 mph	29.27 in	0.0 in	Light Rain
6:54 AM	33 °F	31 °F	92 %	NE	6 mph	0 mph	29.26 in	0.1 in	Rain
7:08 AM	33 °F	31 °F	92 %	ENE	7 mph	0 mph	29.25 in	0.0 in	Rain
7:23 AM	33 °F	32 °F	96 %	ENE	9 mph	0 mph	29.25 in	0.1 in	Rain
7:54 AM	34 °F	32 °F	92 %	NE	8 mph	0 mph	29.26 in	0.1 in	Rain
8:11 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.28 in	0.1 in	Rain
8:26 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.27 in	0.1 in	Rain
8:54 AM	34 °F	32 °F	92 %	NNE	8 mph	0 mph	29.29 in	0.2 in	Rain
9:14 AM	34 °F	32 °F	92 %	NE	9 mph	0 mph	29.28 in	0.1 in	Rain
9:33 AM	34 °F	32 °F	92 %	NE	9 mph	0 mph	29.29 in	0.1 in	Light Rain
9:54 AM	35 °F	33 °F	92 %	NE	9 mph	0 mph	29.27 in	0.1 in	Light Rain
10:08 AM	35 °F	33 °F	92 %	ENE	8 mph	0 mph	29.26 in	0.0 in	Light Rain
10:26 AM	35 °F	34 °F	96 %	ENE	13 mph	0 mph	29.24 in	0.0 in	Light Rain
10:54 AM	36 °F	34 °F	93 %	NE	9 mph	0 mph	29.23 in	0.0 in	Fog

11:01 AM	36 °F	34 °F	93 %	NE	8 mph	0 mph	29.23 in	0.0 in	Fog
11:54 AM	37 °F	36 °F	96 %	NE	10 mph	0 mph	29.23 in	0.0 in	Light Rain
12:08 PM	37 °F	36 °F	96 %	NE	14 mph	21 mph	29.23 in	0.0 in	Wintry Mix
12:37 PM	38 °F	36 °F	93 %	NE	14 mph	21 mph	29.21 in	0.0 in	Fog
12:54 PM	38 °F	37 °F	97 %	NE	13 mph	22 mph	29.19 in	0.0 in	Fog
1:54 PM	40 °F	39 °F	97 %	NE	9 mph	17 mph	29.16 in	0.0 in	Fog
2:14 PM	41 °F	39 °F	93 %	NE	12 mph	0 mph	29.16 in	0.0 in	Fog
2:27 PM	41 °F	39 °F	93 %	ENE	9 mph	18 mph	29.15 in	0.0 in	Fog
2:54 PM	41 °F	39 °F	93 %	ENE	13 mph	21 mph	29.12 in	0.0 in	Light Rain
3:05 PM	41 °F	39 °F	93 %	ENE	15 mph	23 mph	29.10 in	0.0 in	Fog
3:13 PM	41 °F	39 °F	93 %	ENE	13 mph	23 mph	29.10 in	0.0 in	Fog
3:29 PM	41 °F	39 °F	93 %	ENE	16 mph	23 mph	29.12 in	0.0 in	Light Rain
3:41 PM	41 °F	39 °F	93 %	NE	9 mph	22 mph	29.14 in	0.0 in	Light Rain
3:51 PM	41 °F	39 °F	93 %	ENE	13 mph	21 mph	29.14 in	0.0 in	Fog
3:54 PM	41 °F	39 °F	93 %	ENE	12 mph	21 mph	29.14 in	0.0 in	Light Rain
4:54 PM	40 °F	38 °F	93 %	ENE	9 mph	17 mph	29.15 in	0.0 in	Fog
5:39 PM	40 °F	38 °F	93 %	NE	12 mph	0 mph	29.12 in	0.0 in	Fog
5:54 PM	39 °F	37 °F	93 %	NE	10 mph	22 mph	29.11 in	0.0 in	Cloudy
6:21 PM	40 °F	38 °F	93 %	NE	10 mph	0 mph	29.12 in	0.0 in	Fog
6:35 PM	40 °F	38 °F	93 %	NE	9 mph	18 mph	29.12 in	0.0 in	Cloudy
6:45 PM	40 °F	38 °F	93 %	NE	8 mph	0 mph	29.12 in	0.0 in	Fog
6:54 PM	40 °F	38 °F	93 %	NE	7 mph	18 mph	29.13 in	0.0 in	Fog
7:04 PM	40 °F	38 °F	93 %	NE	7 mph	0 mph	29.13 in	0.0 in	Light Rain
7:13 PM	39 °F	38 °F	96 %	NE	9 mph	0 mph	29.14 in	0.0 in	Light Rain
7:24 PM	39 °F	37 °F	93 %	NE	8 mph	16 mph	29.14 in	0.0 in	Cloudy
7:43 PM	39 °F	37 °F	93 %	NE	9 mph	18 mph	29.13 in	0.0 in	Fog
7:54 PM	39 °F	38 °F	96 %	NE	12 mph	17 mph	29.12 in	0.0 in	Fog
8:12 PM	39 °F	38 °F	96 %	NE	8 mph	0 mph	29.13 in	0.0 in	Fog
8:22 PM	39 °F	37 °F	93 %	NE	8 mph	17 mph	29.12 in	0.0 in	Fog
8:25 PM	39 °F	38 °F	96 %	NE	8 mph	17 mph	29.12 in	0.0 in	Cloudy
8:29 PM	39 °F	38 °F	96 %	NE	6 mph	0 mph	29.12 in	0.0 in	Fog
8:42 PM	39 °F	37 °F	93 %	NE	13 mph	18 mph	29.12 in	0.0 in	Cloudy
8:54 PM	39 °F	37 °F	93 %	NNE	13 mph	20 mph	29.12 in	0.0 in	Cloudy
9:54 PM	38 °F	36 °F	93 %	NNE	7 mph	0 mph	29.12 in	0.0 in	Cloudy
10:47 PM	37 °F	36 °F	96 %	NNE	10 mph	0 mph	29.10 in	0.0 in	Fog
10:54 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	29.10 in	0.0 in	Fog
11:02 PM	37 °F	36 °F	96 %	NNE	8 mph	0 mph	29.10 in	0.0 in	Cloudy
11:32 PM	37 °F	35 °F	93 %	NNE	8 mph	0 mph	29.08 in	0.0 in	Fog
11:50 PM	37 °F	36 °F	93 %	NNE	5 mph	0 mph	29.08 in	0.0 in	Cloudy
11:54 PM	37 °F	36 °F	96 %	NNE	5 mph	0 mph	29.08 in	0.0 in	Fog

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 5-6-2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measureable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

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C. Signature Karla H. Sangrey

D. Date Signed 5-6-2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

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C. Signature Karla H. Sangrey

D. Date Signed 8/17/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

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MSGP Quarterly Visual Assessment Form

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Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

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MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

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C. Signature Karla H. Sangrey

D. Date Signed 8/17/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone Clean Water		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2020	Substitute Sample: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus, Lab/IPP Manager; Ornela Piluri, Senior Lab Tech			
Person(s) / Title(s) examining sample: Tim Loftus, Lab/IPP Manager			
Date & Time Storm or Snowmelt Began: August 27, 2020. Approx. 1:30 pm	Date & Time Sample Collected: August 27, 2020 1:53 pm	Date & Time Sample Examined: August 27 2:50 pm	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: 0.95 in	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): slight tan 5Y 8/1		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): Few organics		
Settled Solids**	No Yes (describe): Very fine organic material		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): _

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

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A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10-5-2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

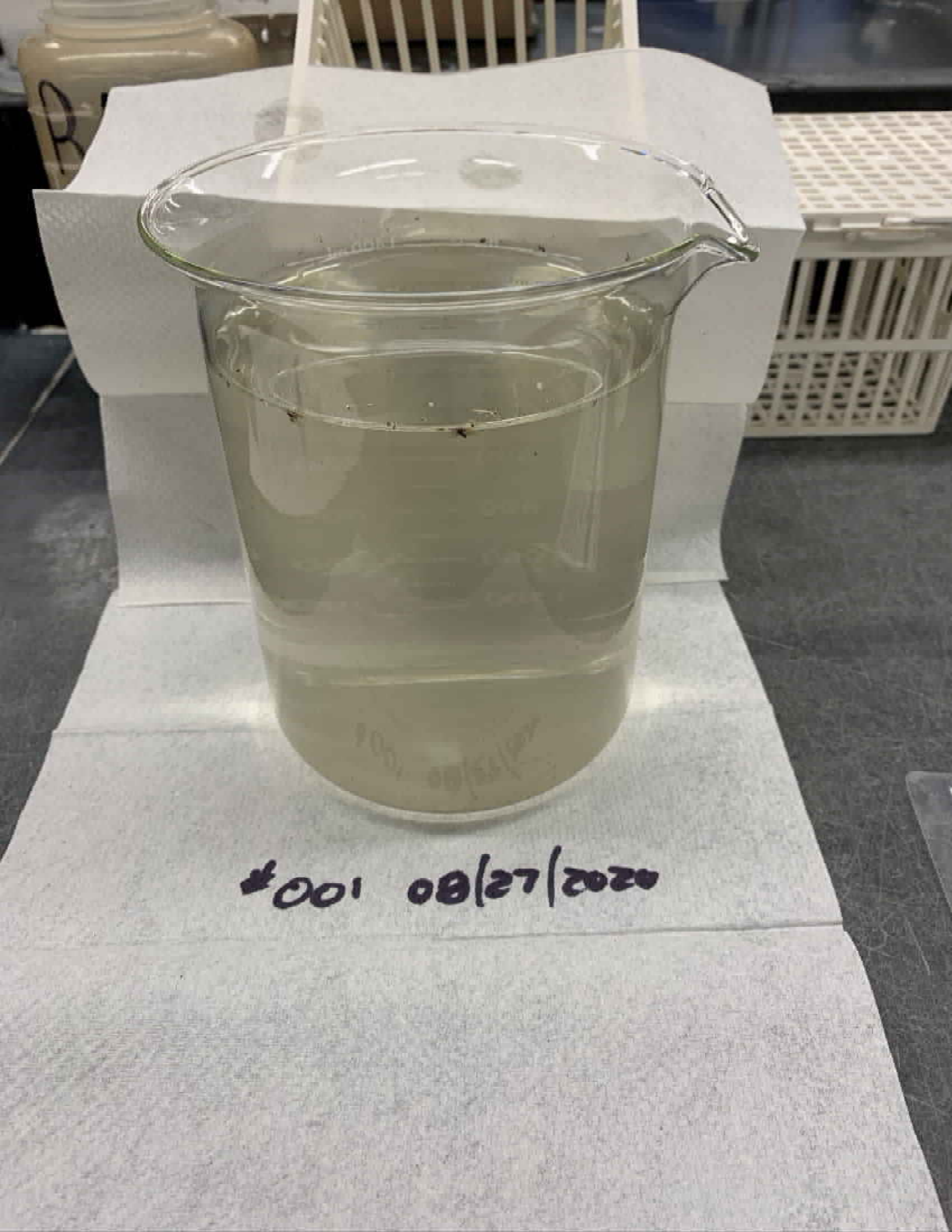
Outfall 1 Treatment Sector T

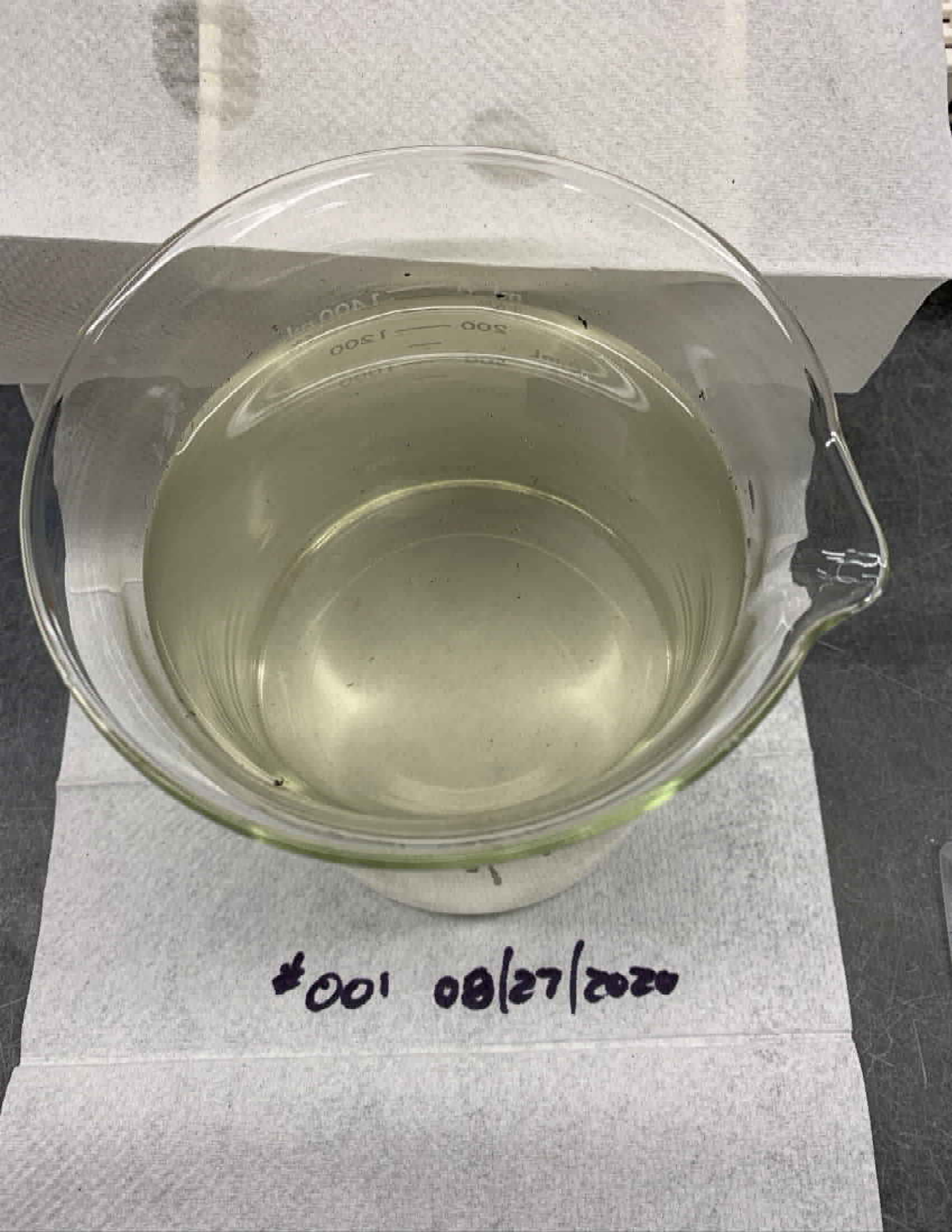
Sampling Date: Thursday, August 27, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron					mg/l	200.8	Alpha
Lead					mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus					mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli					MPN	Colilert	UB
pH	6.0	8/27/2020		TL/OP	SU	150.2	UB
Dissolved Oxygen	8.6	8/27/2020		TL/OP	mg/l	360.1	UB
Dissolved Oxygen	97.4	8/27/2020		TL/OP	%	360.1	UB
Temperature	19.8	8/27/2020		TL/OP	deg C	SM 2550	UB
TSS					mg/l	160.2	UB
Turbidity					NTU	180.1	Alpha


#001 08/27/2020


#001 08/27/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone Clean Water		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2020	Substitute Sample: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus, Lab/IPP Manager; Ornela Piluri, Senior Lab Tech			
Person(s) / Title(s) examining sample: Tim Loftus, Lab/IPP Manager			
Date & Time Storm or Snowmelt Began: August 27, 2020. Approx. 1:30 pm	Date & Time Sample Collected: August 27, 2020 2:15 pm	Date & Time Sample Examined: August 27 2:50 pm	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: 0.95 in	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): strong yellow/brown color 10YR 8/8		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): Few organics		
Settled Solids**	No Yes (describe): Very fine organic material		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	color		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). Strong yellow/brown color from organic matter? Flow was low, only in the bottom quarter of the manhole trough. Saw brown foam (?) flow by after sampling, then the remnants of an plug (leaf litter/soil) gushed by in the front of a much swifter flow. Storm water remained the same color.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10-5-2020

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

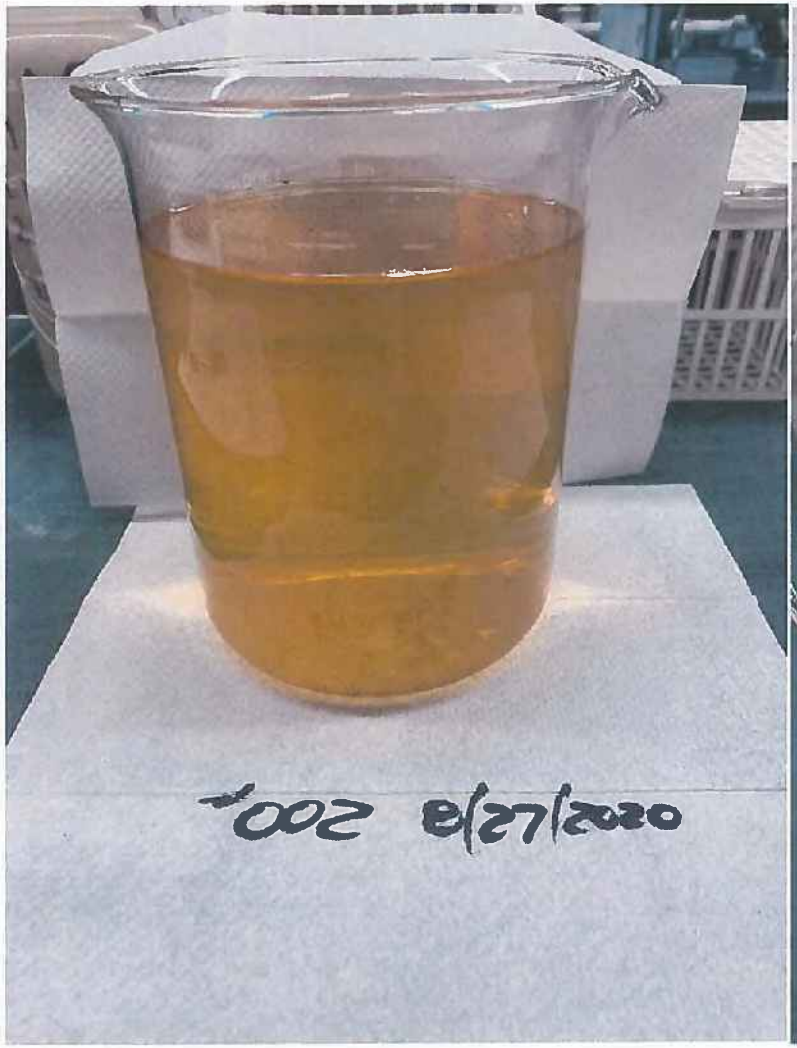
Outfall 2 Treatment Sector T

Sampling Date: Thursday, August 27, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.7	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron	11.300	9/3/2020		Alpha	mg/l	200.7	Alpha
Lead					mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus					mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli IN					MPN	Colilert	UB
E. coli OUT	878.0	8/27/2020	8/28/2020	TL/OP	MPN	Colilert	UB
pH	7.1	8/27/2020		TL/OP	SU	150.2	UB
Dissolved Oxygen	7.3	8/27/2020		TL/OP	mg/l	360.1	UB
Dissolved Oxygen	75.5	8/27/2020		TL/OP	%	360.1	UB
Temperature	15.6	8/27/2020		TL/OP	deg. C	SM 2550	UB
TSS					mg/l	160.2	UB
Turbidity					NTU	180.1	Alpha



Outfall 002 (near WWD). August 27, 2020.

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10-5-2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10-5-2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 4th 2020	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Devon Avery and Tim Loftus			
Person(s) / Title(s) examining sample: Devon Avery			
Date & Time Storm or Snowmelt Began: 11/30/2020 11:37 am	Date & Time Sample Collected: 11/30/2020 01:21 pm	Date & Time Sample Examined: 11/30/2020 01:46 pm	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 2.38 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): pale yellow Munsell 5Y 8/2		
Odor	None Musty X Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): X Small organic particles		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Weather data was taken from the Worcester Airport station. We noticed significant rain and water run-off at approximately 01:15 pm.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 2/4/2021

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	39 F	26 F	60 %	WSW	7 mph	0 mph	28.98 in	0.0 in	Fair
1:54 AM	37 F	27 F	67 %	SW	9 mph	0 mph	28.99 in	0.0 in	Fair
2:54 AM	38 F	29 F	70 %	S	6 mph	0 mph	28.98 in	0.0 in	Fair
3:54 AM	37 F	32 F	82 %	S	6 mph	0 mph	28.97 in	0.0 in	Fair
4:54 AM	38 F	33 F	83 %	SW	3 mph	0 mph	28.98 in	0.0 in	Fair
5:54 AM	39 F	34 F	82 %	E	5 mph	0 mph	28.96 in	0.0 in	Fair
6:54 AM	39 F	34 F	82 %	E	5 mph	0 mph	28.94 in	0.0 in	Fair
7:54 AM	40 F	35 F	83 %	ENE	5 mph	0 mph	28.95 in	0.0 in	Partly Cloudy
8:54 AM	41 F	36 F	82 %	ENE	5 mph	0 mph	28.93 in	0.0 in	Fair
9:27 AM	41 F	36 F	82 %	ENE	8 mph	0 mph	28.91 in	0.0 in	Partly Cloudy
9:43 AM	41 F	37 F	86 %	E	7 mph	0 mph	28.90 in	0.0 in	Mostly Cloudy
9:54 AM	41 F	37 F	86 %	ENE	7 mph	0 mph	28.90 in	0.0 in	Cloudy
10:54 AM	41 F	38 F	89 %	VAR	7 mph	0 mph	28.83 in	0.0 in	Light Rain
11:28 AM	40 F	38 F	93 %	NE	10 mph	0 mph	28.79 in	0.0 in	Light Rain
11:37 AM	40 F	38 F	93 %	NNE	10 mph	0 mph	28.79 in	0.1 in	Rain
11:51 AM	39 F	37 F	93 %	NNE	9 mph	0 mph	28.77 in	0.1 in	Light Rain
11:54 AM	40 F	38 F	93 %	NE	7 mph	0 mph	28.77 in	0.1 in	Light Rain
12:44 PM	42 F	41 F	96 %	NE	6 mph	0 mph	28.71 in	0.1 in	Rain
12:54 PM	43 F	41 F	93 %	NE	6 mph	0 mph	28.70 in	0.1 in	Light Rain
1:20 PM	44 F	43 F	96 %	NE	6 mph	0 mph	28.67 in	0.1 in	Heavy Rain
1:50 PM	46 F	45 F	93 %	ESE	7 mph	0 mph	28.64 in	0.1 in	Rain
1:54 PM	48 F	46 F	93 %	ESE	8 mph	0 mph	28.64 in	0.2 in	Heavy Rain
2:20 PM	51 F	49 F	92 %	SE	17 mph	24 mph	28.60 in	0.2 in	Heavy Rain
2:29 PM	53 F	52 F	96 %	SE	23 mph	32 mph	28.58 in	0.2 in	Heavy Rain / Windy
2:36 PM	54 F	52 F	93 %	SE	21 mph	35 mph	28.58 in	0.3 in	Heavy Rain / Windy
2:54 PM	55 F	53 F	93 %	SE	23 mph	33 mph	28.55 in	0.4 in	Heavy Rain / Windy
3:06 PM	55 F	53 F	93 %	SSE	20 mph	31 mph	28.55 in	0.1 in	Heavy Rain
3:54 PM	56 F	54 F	93 %	SSE	17 mph	29 mph	28.52 in	0.4 in	Heavy Rain
4:01 PM	56 F	54 F	93 %	SSE	22 mph	31 mph	28.52 in	0.1 in	Rain / Windy
4:30 PM	57 F	54 F	89 %	SSE	16 mph	36 mph	28.51 in	0.2 in	Heavy Rain
4:47 PM	57 F	55 F	93 %	S	22 mph	31 mph	28.51 in	0.3 in	Heavy Rain / Windy
4:54 PM	58 F	55 F	90 %	S	17 mph	32 mph	28.51 in	0.4 in	Heavy Rain
5:01 PM	58 F	55 F	90 %	S	21 mph	31 mph	28.51 in	0.0 in	Light Rain / Windy
5:33 PM	59 F	56 F	90 %	SSE	18 mph	36 mph	28.51 in	0.1 in	Rain
5:50 PM	57 F	55 F	94 %	SSE	23 mph	39 mph	28.50 in	0.1 in	Rain / Windy
5:54 PM	58 F	56 F	93 %	SSE	24 mph	39 mph	28.49 in	0.1 in	Heavy Rain / Windy
6:04 PM	58 F	56 F	93 %	SSE	18 mph	39 mph	28.50 in	0.1 in	Heavy Rain
6:54 PM	58 F	56 F	93 %	SSE	23 mph	32 mph	28.48 in	0.3 in	Rain / Windy
7:54 PM	61 F	58 F	90 %	S	17 mph	35 mph	28.47 in	0.1 in	Rain
8:37 PM	60 F	57 F	90 %	S	18 mph	28 mph	28.46 in	0.1 in	Rain
8:54 PM	60 F	58 F	93 %	S	13 mph	0 mph	28.47 in	0.1 in	Light Rain
9:07 PM	60 F	58 F	93 %	SSE	16 mph	22 mph	28.47 in	0.0 in	Rain
9:21 PM	61 F	58 F	90 %	S	20 mph	26 mph	28.46 in	0.1 in	Light Rain
9:54 PM	62 F	59 F	90 %	S	26 mph	37 mph	28.46 in	0.1 in	Light Rain / Windy
10:04 PM	62 F	59 F	90 %	SSW	22 mph	33 mph	28.46 in	0.0 in	Light Rain / Windy
10:49 PM	63 F	59 F	88 %	S	15 mph	30 mph	28.46 in	0.0 in	Rain
10:54 PM	62 F	59 F	90 %	S	20 mph	30 mph	28.46 in	0.1 in	Light Rain
11:27 PM	62 F	59 F	90 %	SSW	18 mph	28 mph	28.46 in	0.0 in	Cloudy
11:54 PM	62 F	59 F	90 %	S	13 mph	25 mph	28.46 in	0.0 in	Cloudy

Worcester, MA Weather History | Weather Underground (wunderground.com)

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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CDUS41 KBOX 010651
CLIORH


CLIMATE REPORT
NATIONAL WEATHER SERVICE BOSTON/NORTON MA
140 AM EST TUE DEC 1 2020


.................................

...THE WORCESTER MA CLIMATE SUMMARY FOR NOVEMBER 30 2020...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1892 TO 2020


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
                VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                   NORMAL
.................................................................
..
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         63   1017 PM  65    1962  42     21       33
                                     1933
  MINIMUM         35    222 AM   6    1929  28      7       18
  AVERAGE         49                        35     14       26

PRECIPITATION (IN)
  YESTERDAY        2.38R         1.52 1944   0.14   2.24
0.00
  MONTH TO DATE    5.95                      4.28   1.67
2.60
  SINCE SEP 1     14.31                     12.89   1.42
12.48
```

SINCE JAN 1	40.17			44.25	-4.08	47.71

SNOWFALL (IN)

YESTERDAY	0.0	4.5	1924	0.2	-0.2	0.0
MONTH TO DATE	T			2.6	-2.6	T
SINCE SEP 1	6.2			2.8	3.4	T
SINCE JUL 1	6.2			2.8	3.4	T
SNOW DEPTH	MM					

DEGREE DAYS

HEATING

YESTERDAY	16	30	-14	39
MONTH TO DATE	572	740	-168	870
SINCE SEP 1	1091	1363	-272	1390
SINCE JUL 1	1102	1402	-300	1404

COOLING

YESTERDAY	0	0	0	0
MONTH TO DATE	0	0	0	0
SINCE SEP 1	59	45	14	34
SINCE JAN 1	776	471	305	545

.....
..

WIND (MPH)

RESULTANT WIND SPEED	8	RESULTANT WIND DIRECTION	S (160)
HIGHEST WIND SPEED	29	HIGHEST WIND DIRECTION	S (190)
HIGHEST GUST SPEED	41	HIGHEST GUST DIRECTION	SE (150)
AVERAGE WIND SPEED	11.5		

SKY COVER

POSSIBLE SUNSHINE MM

AVERAGE SKY COVER 0.6

WEATHER CONDITIONS

THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.

HEAVY RAIN

RAIN

LIGHT RAIN

FOG

FOG W/VISIBILITY <= 1/4 MILE

RELATIVE HUMIDITY (PERCENT)

HIGHEST	96	100 PM
LOWEST	59	1200 AM
AVERAGE	78	

.....

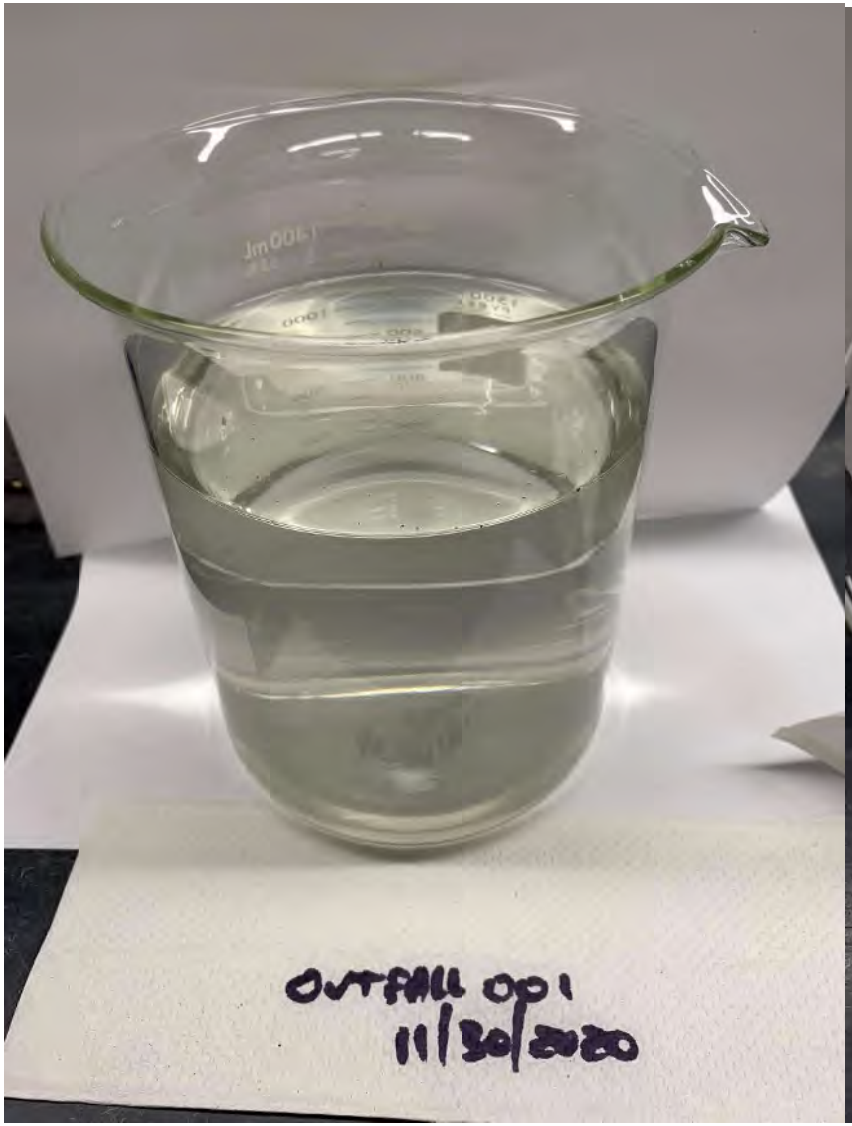
THE WORCESTER MA CLIMATE NORMALS FOR TODAY

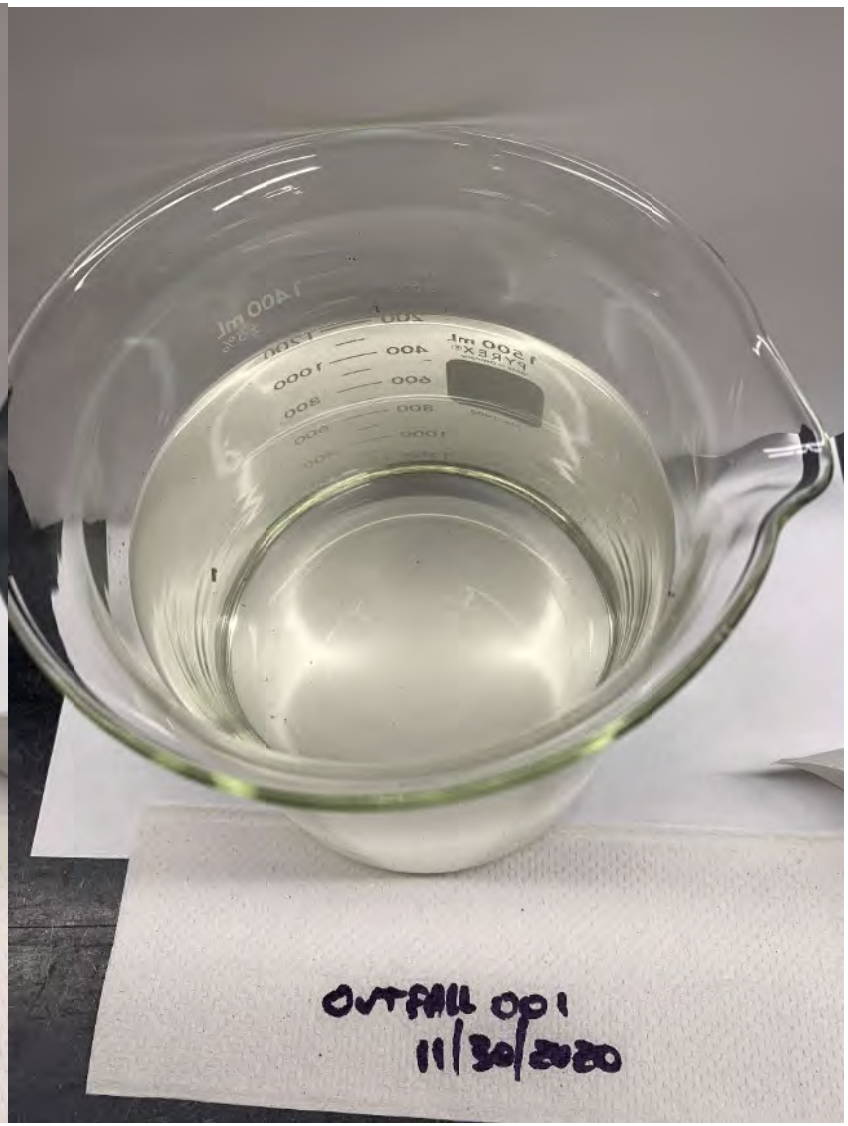
	NORMAL	RECORD	YEAR
MAXIMUM TEMPERATURE (F)	42	65	2006
MINIMUM TEMPERATURE (F)	28	5	1936

SUNRISE AND SUNSET

DECEMBER 1 2020.....	SUNRISE 657 AM EST	SUNSET	416 PM EST
DECEMBER 2 2020.....	SUNRISE 658 AM EST	SUNSET	416 PM EST

- INDICATES NEGATIVE NUMBERS.
R INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T INDICATES TRACE AMOUNT.


OUTFALL 001
11/30/2020


OUTFALL 001
11/30/2020

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 4th Quarter 2020	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): _

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall. Two additional samples times showed a clogged discharge line (looked like sticks and leaves from the swamp area upstream) and both times UB maintenance needed to unclog the lines after the storm.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karl[redacted]

B. Title Engineer – Director - Treasurer

C. Signature [redacted]

D. Date Signed 2/4/2021

December 25, 2020. Outfall 002

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 4th 2020	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Devon Avery and Tim Loftus			
Person(s) / Title(s) examining sample: Devon Avery			
Date & Time Storm or Snowmelt Began: 11/30/2020 11:37 am	Date & Time Sample Collected: 11/30/2020 02:35 pm	Date & Time Sample Examined: 11/30/2020 03:07 pm	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 2.38 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): pale brown Munsell 10Y 7/4		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy CloudyX Opaque Other (describe):		
Floating Solids	No Yes (describe): X Pieces of grass		
Settled Solids**	No Yes (describe): X Pieces of grass		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Weather data was taken from the Worcester Airport station. We noticed significant rain and water run-off at approximately 01:15 pm. No flow from Outfall 003 at 01:30 pm. Flow observed at 02:30 pm.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Kar[redacted]

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 2/4/2021

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

Outfall 3 Treatment Sector T

Sampling Date: Monday, November 30, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron					mg/l	200.8	Alpha
Lead	0.003	12/08/20		Alpha	mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus	0.03	12/1/20		OP	mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli	339.0	11/30	12/01	DA	MPN	Colilert	UB
pH	7.4	11/30		DA	SU	150.2	UB
Dissolved Oxygen	10.2	11/30		DA	mg/l	360.1	UB
Dissolved Oxygen	87.3	11/30		DA	%	360.1	UB
Temperature	8.7	11/30		DA	deg. C	SM 2550	UB
TSS	9	12/2/20	12/3/20	DA	mg/l	160.2	UB
FOG	<4.0				mg/L	1664 A	Alpha
Turbidity	8.3	12/02/20		Alpha	NTU	180.1	Alpha

Year 2020

Outfall # 3 (By China Grove) Treatment Works stormwater Sector T

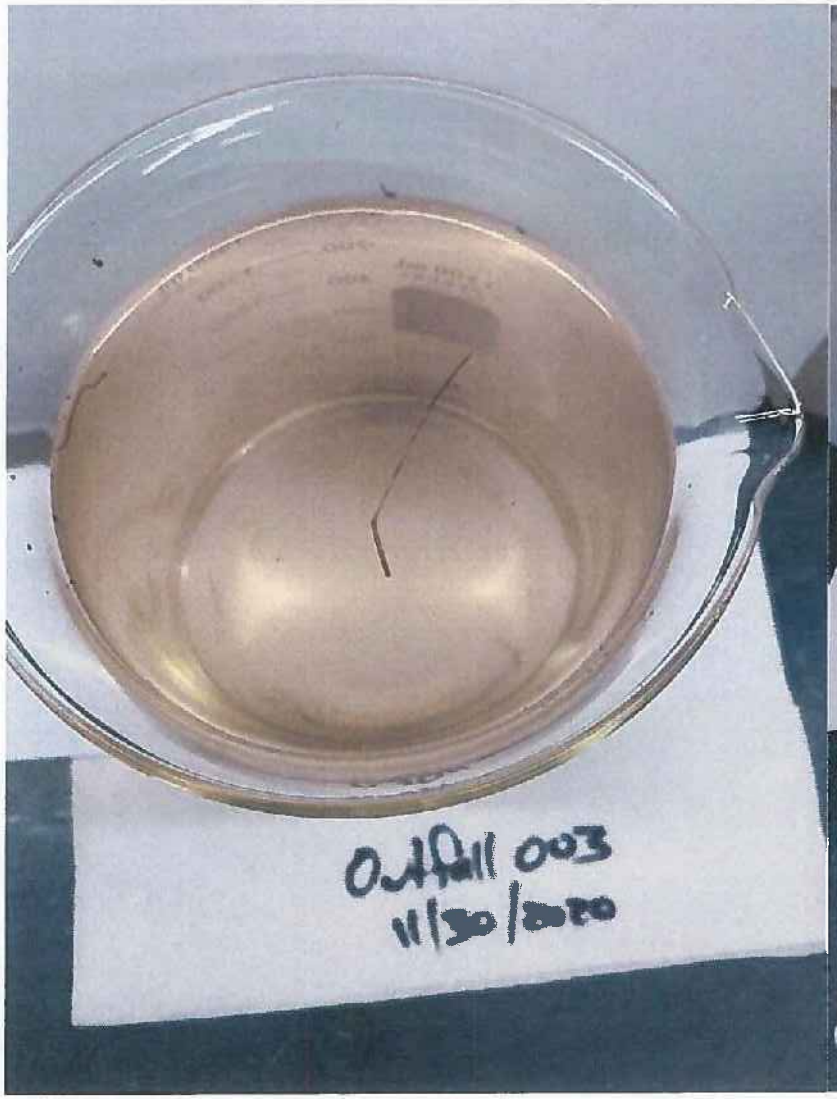
Visual Assessment must be done quarterly when there is a flow. Visual Assessment Form and Parameters on the visual assessment form are to be completed by Sampling Individual.

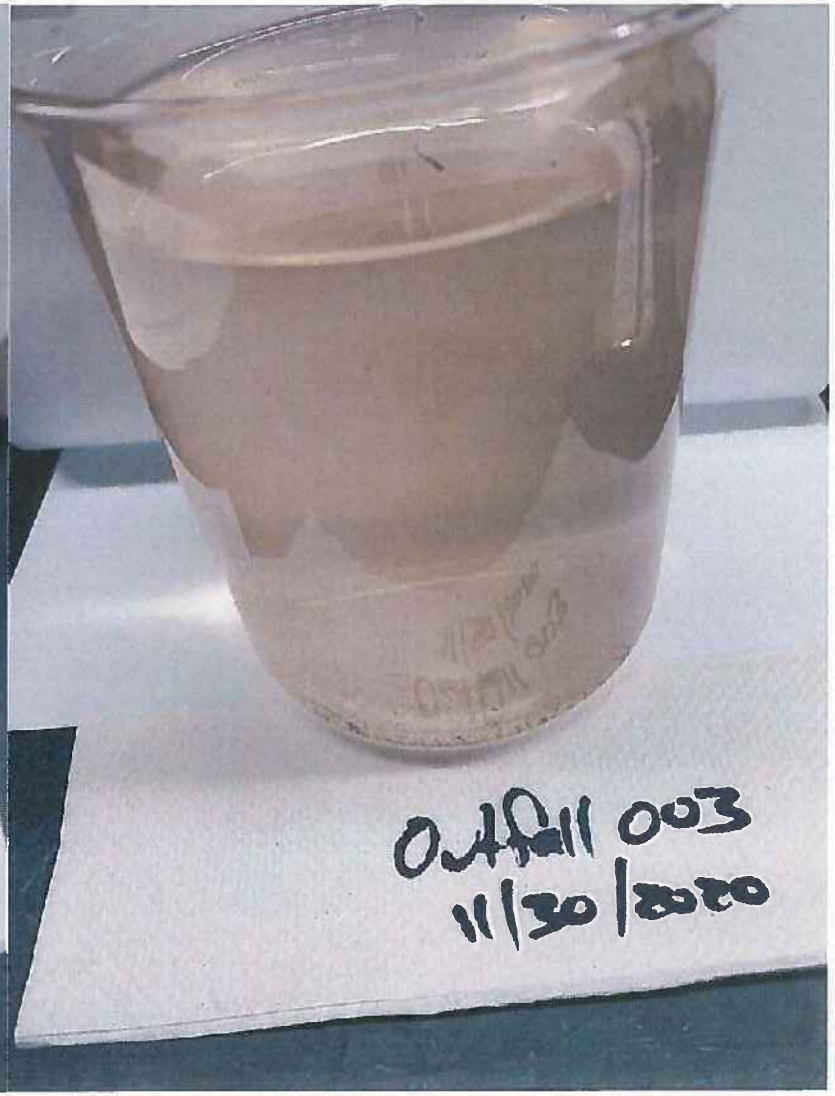
Annual Impaired Water Testing		
Date	11/30/20	2:35PM
Impairment	Monitoring Parameter	Value
Dissolved Oxygen	Dissolved Oxygen	8.70 10.16 mg/L DA
Escherichia Coli (*E. Coli*)	*E. Coli*	339 DA
Lead	Lead, Total	0.00316 12/8 Alpha
Nutrient/Eutrophication Biological Indicators	Phosphorus, Total	0.03 mg/L
Oil and Grease	Oil & Grease (Total Recoverable)	< 4.0 12/4 Alpha
Phosphorus, Total	Phosphorus, Total	0.03 mg/L
Sedimentation/Siltation	Total Suspended Solids (TSS)	9 mg/L
Turbidity	Turbidity	8.3 12/2 Alpha

pH = 7.42 DA

TSS 9 mg/L

% sat Calc from USGS table 87.29%


Outfall 003
11/30/2020


Outfall 003
11/30/2020

Fecal Coliforms Colilert - 18

Date	time	sampled by	Flow (MGD)	Chlorine residual	Time placed in bath	Tray #	Date Out	Time Out	Counted by	# Small wells positive	# large wells positive	Fecal Coliforms Results	Unit tray is in	TIME to READ
11/30/20	2:40	DA	E.coli	-	2:42	Stormwater 003	12/1/20	10:48	DA	21	49	365.4		9:00am to 1pm
11/30/20	2:40	DA	E.coli	-	2:42	Stormwater 90/10 003	12/1/20	10:48	DA	1	23	31.3		9:00am to 1pm
												x10		
												31.3		
												313.0		
										Avg.	313			
											365.4	339.2		

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 4th 2020	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Devon Avery (Lab Tech) and Tim Loftus (Lab Manager)			
Person(s) / Title(s) examining sample: Devon Avery (Lab Tech) and Tim Loftus (Lab Manager)			
Date & Time Storm or Snowmelt Began: 12/25/2020 01:54 am	Date & Time Sample Collected: 12/25/2020 02:30 pm	Date & Time Sample Examined: 12/25/2020 03:00 pm	
Nature of Discharge: X Rainfall Snowmelt			
Rainfall Amount: 2.81 inches	Previous Storm Ended > 72 hours Before Start of This Storm? X Yes No* (explain):		
Parameter			
Color	None Other (describe): Straw Munsell 2.5Y 8/4		
Odor	None Musty X Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe): swamp smell		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No XX Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

The sample was taken at the discharge pipe of the retaining basin. We took the samples at the estimated time that the basin would be full and starting to discharge, which was about 13 hours after the storm started.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Ka[redacted]

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 2/4/2021

These data are preliminary and have not undergone final quality control by the National Climatic Data Center (NCDC). Therefore, these data are subject to revision. Final and certified climate data can be accessed at the NCDC - http://www.ncdc.noaa.gov.

Climatological Report (Daily)

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000
CDUS41 KBOX 260737
CLIORH

CLIMATE REPORT
NATIONAL WEATHER SERVICE BOSTON/NORTON MA
237 AM EST SAT DEC 26 2020

.................................

...THE WORCESTER MA CLIMATE SUMMARY FOR DECEMBER 25 2020...

CLIMATE NORMAL PERIOD 1981 TO 2010
CLIMATE RECORD PERIOD 1892 TO 2020


WEATHER ITEM   OBSERVED TIME   RECORD YEAR NORMAL DEPARTURE LAST
               VALUE   (LST)  VALUE       VALUE  FROM      YEAR
                                                NORMAL
.................................................................
TEMPERATURE (F)
 YESTERDAY
  MAXIMUM         61R   811 AM  60    1964  34     27       37
                                      2015
  MINIMUM         34   1159 PM -11    1980  20     14       26
  AVERAGE         48                         27     21       32

PRECIPITATION (IN)
  YESTERDAY        2.81R         1.15 1986   0.12   2.69     0.00
  MONTH TO DATE    6.44                      3.15   3.29     5.30
  SINCE DEC 1      6.44                      3.15   3.29     5.30
  SINCE JAN 1     46.61                     47.40  -0.79    53.01

SNOWFALL (IN)
  YESTERDAY        0.0          10.5  2002   0.6   -0.6      0.0
  MONTH TO DATE   22.9                      11.2   11.7     25.3
  SINCE DEC 1     22.9                      11.2   11.7     25.3
  SINCE JUL 1     30.0                      14.0   16.0     25.3

DEGREE DAYS
 HEATING
  YESTERDAY       17                         38    -21       33
  MONTH TO DATE  790                        864    -74      911
  SINCE DEC 1    790                        864    -74      911
  SINCE JUL 1   1892                       2266   -374     2315

 COOLING
  YESTERDAY        0                          0      0        0
  MONTH TO DATE    0                          0      0        0
  SINCE DEC 1      0                          0      0        0
  SINCE JAN 1    776                        471    305      545
.................................................................


WIND (MPH)
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  RESULTANT WIND SPEED  16   RESULTANT WIND DIRECTION   S (180)
  HIGHEST WIND SPEED    31   HIGHEST WIND DIRECTION     S (180)
  HIGHEST GUST SPEED    40   HIGHEST GUST DIRECTION    SE (140)
  AVERAGE WIND SPEED    16.9


SKY COVER
  POSSIBLE SUNSHINE  MM
  AVERAGE SKY COVER 0.9


WEATHER CONDITIONS
THE FOLLOWING WEATHER WAS RECORDED YESTERDAY.
  HEAVY RAIN
  RAIN
  LIGHT RAIN
  FOG


RELATIVE HUMIDITY (PERCENT)
 HIGHEST    96           400 PM
 LOWEST     62          1000 PM
 AVERAGE    79

.............................................................


THE WORCESTER MA CLIMATE NORMALS FOR TODAY
                          NORMAL    RECORD    YEAR
 MAXIMUM TEMPERATURE (F)   33        58       1964
 MINIMUM TEMPERATURE (F)   19       -11       1968
                                             1980


SUNRISE AND SUNSET
DECEMBER 26 2020......SUNRISE   715 AM EST   SUNSET   421 PM EST
DECEMBER 27 2020......SUNRISE   716 AM EST   SUNSET   422 PM EST


-  INDICATES NEGATIVE NUMBERS.
R  INDICATES RECORD WAS SET OR TIED.
MM INDICATES DATA IS MISSING.
T  INDICATES TRACE AMOUNT.
```

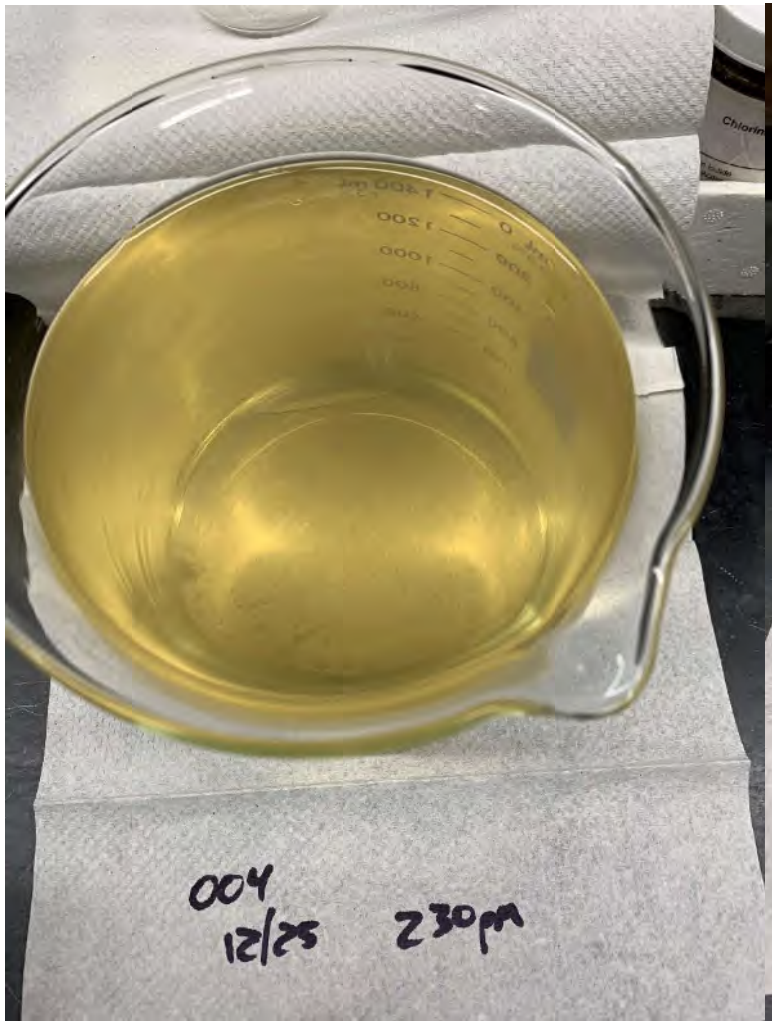
The U.S. Naval Observatory (USNO) data is currently unavailable. The links provided are from other US Government sources. When USNO data is returned to service, the links will be updated.

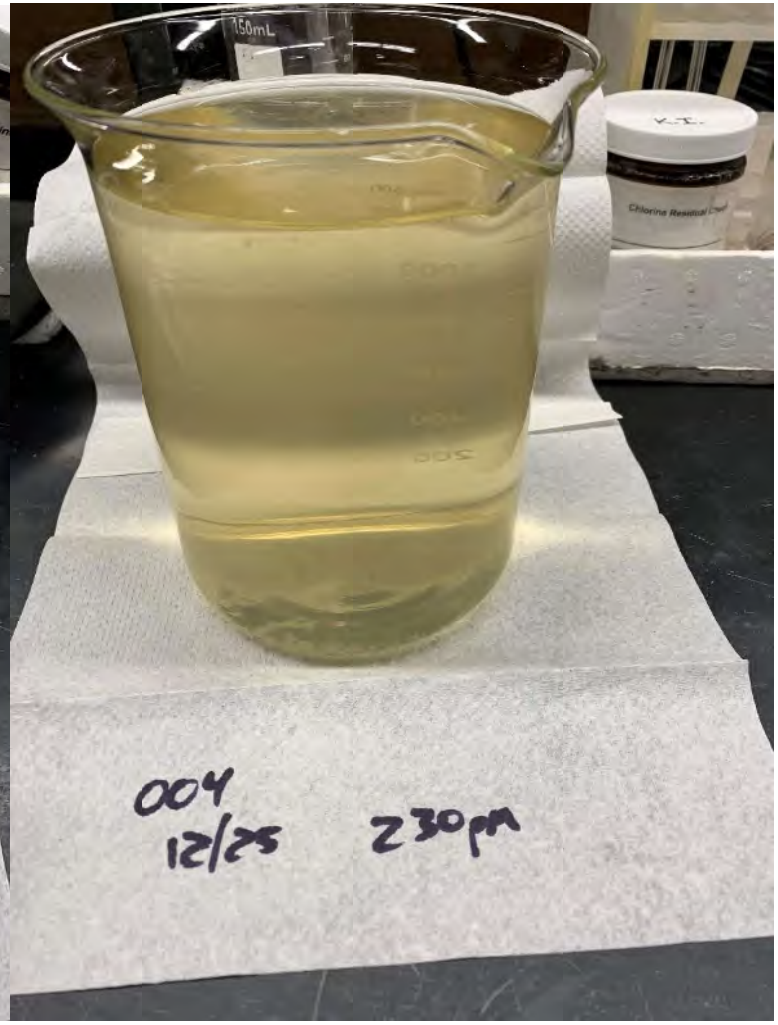
December 13, 2020

Source: weather underground

12:54 AM	56 F	53 F	90 %	SSE	18 mph	23 mph	28.74 in	0.0 in	Cloudy
1:54 AM	58 F	55 F	90 %	S	20 mph	32 mph	28.71 in	0.1 in	Rain
2:09 AM	58 F	55 F	90 %	SSE	23 mph	35 mph	28.70 in	0.1 in	Rain / Windy
2:54 AM	58 F	55 F	90 %	SSE	20 mph	30 mph	28.66 in	0.3 in	Rain
3:54 AM	59 F	56 F	90 %	SSE	20 mph	38 mph	28.61 in	0.2 in	Rain
4:37 AM	59 F	56 F	90 %	S	21 mph	33 mph	28.59 in	0.2 in	Heavy Rain / Windy
4:54 AM	59 F	57 F	93 %	S	18 mph	31 mph	28.58 in	0.3 in	Heavy Rain
5:14 AM	59 F	57 F	93 %	S	22 mph	31 mph	28.58 in	0.1 in	Heavy Rain / Windy
5:36 AM	59 F	56 F	90 %	SSE	18 mph	33 mph	28.57 in	0.3 in	Rain
5:54 AM	59 F	56 F	90 %	SSE	21 mph	35 mph	28.56 in	0.3 in	Rain / Windy
6:04 AM	59 F	56 F	90 %	SSE	20 mph	30 mph	28.55 in	0.1 in	Rain
6:54 AM	60 F	58 F	93 %	SSE	21 mph	39 mph	28.53 in	0.3 in	Rain / Windy
7:33 AM	61 F	58 F	90 %	S	24 mph	37 mph	28.53 in	0.3 in	Heavy Rain / Windy
7:49 AM	61 F	57 F	88 %	S	30 mph	38 mph	28.53 in	0.4 in	Rain / Windy
7:54 AM	61 F	58 F	90 %	S	22 mph	39 mph	28.53 in	0.4 in	Rain / Windy
8:02 AM	61 F	58 F	90 %	S	21 mph	33 mph	28.53 in	0.0 in	Rain / Windy
8:27 AM	60 F	57 F	90 %	S	21 mph	29 mph	28.53 in	0.1 in	Light Rain / Windy
8:54 AM	59 F	57 F	93 %	S	17 mph	30 mph	28.53 in	0.1 in	Rain
9:54 AM	57 F	54 F	89 %	SSW	16 mph	26 mph	28.56 in	0.2 in	Rain
10:54 AM	57 F	54 F	89 %	SSW	14 mph	21 mph	28.53 in	0.1 in	Light Rain
11:23 AM	56 F	54 F	93 %	S	12 mph	0 mph	28.52 in	0.0 in	Light Rain
11:54 AM	55 F	52 F	89 %	S	12 mph	0 mph	28.52 in	0.0 in	Light Rain
12:08 PM	55 F	52 F	89 %	S	13 mph	0 mph	28.51 in	0.0 in	Light Rain
12:16 PM	55 F	51 F	86 %	S	14 mph	0 mph	28.51 in	0.0 in	Light Rain
12:24 PM	54 F	51 F	90 %	S	13 mph	21 mph	28.52 in	0.0 in	Light Rain
12:41 PM	54 F	51 F	90 %	S	12 mph	0 mph	28.52 in	0.0 in	Light Rain
12:49 PM	54 F	52 F	94 %	S	16 mph	0 mph	28.52 in	0.0 in	Light Rain
12:54 PM	53 F	50 F	89 %	S	12 mph	20 mph	28.52 in	0.0 in	Light Rain
1:54 PM	52 F	49 F	89 %	S	15 mph	0 mph	28.52 in	0.1 in	Rain
2:04 PM	52 F	49 F	89 %	S	13 mph	0 mph	28.52 in	0.0 in	Light Rain
2:08 PM	52 F	49 F	89 %	S	13 mph	0 mph	28.52 in	0.0 in	Light Rain
2:15 PM	52 F	49 F	89 %	S	10 mph	0 mph	28.52 in	0.0 in	Light Rain
2:54 PM	51 F	48 F	89 %	SE	14 mph	0 mph	28.52 in	0.1 in	Rain
3:35 PM	51 F	49 F	92 %	SE	10 mph	0 mph	28.50 in	0.1 in	Rain
3:49 PM	52 F	48 F	88 %	ESE	10 mph	0 mph	28.48 in	0.2 in	Rain
3:54 PM	51 F	49 F	92 %	ESE	9 mph	0 mph	28.46 in	0.2 in	Rain
4:03 PM	51 F	49 F	92 %	ESE	9 mph	0 mph	28.46 in	0.0 in	Light Rain
4:26 PM	50 F	48 F	93 %	SE	15 mph	22 mph	28.44 in	0.0 in	Light Rain
4:31 PM	50 F	49 F	96 %	SE	17 mph	23 mph	28.46 in	0.0 in	Light Rain
4:54 PM	51 F	49 F	92 %	SSE	20 mph	24 mph	28.46 in	0.0 in	Light Rain
5:01 PM	51 F	48 F	89 %	SSE	21 mph	32 mph	28.45 in	0.0 in	Light Rain / Windy
5:12 PM	51 F	48 F	89 %	S	18 mph	33 mph	28.46 in	0.0 in	Cloudy

5:23 PM	51 F	48 F	89 %	S	20 mph	29 mph	28.46 in	0.0 in	Cloudy
5:40 PM	51 F	46 F	83 %	S	21 mph	28 mph	28.46 in	0.0 in	Cloudy / Windy
5:54 PM	50 F	46 F	86 %	SSW	17 mph	28 mph	28.46 in	0.0 in	Cloudy
6:15 PM	49 F	42 F	77 %	S	17 mph	26 mph	28.48 in	0.0 in	Cloudy
6:40 PM	47 F	41 F	80 %	S	17 mph	23 mph	28.49 in	0.0 in	Mostly Cloudy
6:54 PM	47 F	41 F	80 %	S	17 mph	24 mph	28.49 in	0.0 in	Partly Cloudy
7:21 PM	46 F	38 F	73 %	SSW	16 mph	26 mph	28.50 in	0.0 in	Mostly Cloudy
7:54 PM	45 F	38 F	76 %	SSW	9 mph	0 mph	28.50 in	0.0 in	Cloudy
8:54 PM	42 F	31 F	65 %	SSW	14 mph	0 mph	28.51 in	0.0 in	Mostly Cloudy
9:54 PM	39 F	27 F	62 %	SSW	17 mph	26 mph	28.50 in	0.0 in	Fair
10:54 PM	37 F	26 F	65 %	SSW	20 mph	29 mph	28.52 in	0.0 in	Fair
11:54 PM	34 F	23 F	64 %	SW	22 mph	32 mph	28.52 in	0.0 in	Mostly Cloudy / Windy


004
12/25 230pm


150mL
004
12/25 230pm

UPPER BLACKSTONE WATER POLLUTION ABATEMENT DISTRICT

Stormwater Laboratory Data

Outfall 4 Treatment Sector L

Sampling Date: Friday, December 25, 2020

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron	0.320	01/06/2021		Alpha	mg/l	200.8	Alpha
Lead	0.004	01/05/2021		Alpha	mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc	0.044	01/05/2021		Alpha	mg/l	200.8	Alpha
Ammonia	0.1	01/04/2021		Alpha	mg/l	350.1	UB
T. Phosphorus	0.31	12/31/2021		Alpha	mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E.coli	691.0	12/25/20	12/26/20	DA	MPN	Colilert	UB
TSS	6.8	12/25/20	12/25/20	DA	mg/l	160.2	UB
Turbidity	7.3	12/28/2021		Alpha	NTU	180.1	Alpha
BOD	8.8	12/26/2020	12/31/2020	Nora S	mg/l	SM 5210	UB
Alpha Terpineol	<5.00	12/30/2021		Alpha	ug/l	625	Alpha
Benzoic Acid	<50.00	12/30/2021		Alpha	ug/l	625	Alpha
p-Cresol	<5.00	12/30/2021		Alpha	ug/l	625	Alpha
Phenol	<5.00	12/30/2021		Alpha	ug/l	420.1	Alpha
pH	7.7	12/25/20		DA	SU	150.2	UB
Dissolved Oxygen	9.4	12/25/20		DA	mg/l	360.1	UB
Dissolved Oxygen	82.1	12/25/20		TL	% sat	360.1	UB
FOG	1.0			Alpha	mg/L	1664 A	Alpha
Temperature	9.4	12/25/20		DA	deg. C	SM 2550	UB

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/6/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): _

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 10/6/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 10/6/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): _

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 10/6/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Q 2021	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Devon Avery (Lab Tech) and Denise Prouty (Sr. Lab Tech)			
Person(s) / Title(s) examining sample: Devon Avery (Lab Tech) and Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 06/14/21 8:24 am	Date & Time Sample: 06/14/21 09:12 am Laboratory Samples Collected: Yes X No N/A	Date & Time Sample Examined: 06/14/21 9:12 am	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): Very pale brown 10YR 7/3		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy X Opaque Other (describe):		
Floating Solids	Yes (describe): X Significant amount of small soil particles.		
Settled Solids**	Yes (describe): X Thin layer of soil particles covering bottom		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X Yes (describe):		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: X No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
X No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/5/21

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

Sampling Date: Monday, June 14, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Aluminum					mg/l	200.8	Alpha
Arsenic					mg/l	200.8	Alpha
Cadmium					mg/l	200.8	Alpha
Chromium					mg/l	200.8	Alpha
Copper					mg/l	200.8	Alpha
Iron					mg/l	200.8	Alpha
Lead	0.009	7/15/21		Alpha	mg/l	200.8	Alpha
Nickel					mg/l	200.8	Alpha
Zinc					mg/l	200.8	Alpha
Ammonia					mg/l	350.1	UB
T. Phosphorus	0.48	6/14/21		SK	mg/l	365.2	UB
T. Nitrogen					mg/l	351.2,353.2	UB
E. coli	387.3	6/14/21	6/15/21	DP	MPN	Colilert	UB
pH	6.4	6/14/21		DP	SU	150.2	UB
Dissolved Oxygen	9.1	6/14/21		DP	mg/l	360.1	UB
Dissolved Oxygen	97.1	6/14/21		DP	%	360.1	UB
Temperature	17.4	6/14/21		DP	deg C	SM 2550	UB
TSS	49.0	6/14/21	6/14/21	KS	mg/l	160.2	UB
FOG	1.0	6/30/21		Alpha	mg/L	1164 A	Alpha
Turbidity	23.0	6/16/21		Alpha	NTU	180.1	Alpha

ANALYTICAL REPORT

Lab Number:	L2132210
Client:	Upper Blackstone WPAD 50 Route 20 Millbury, MA 01527
ATTN:	Tim Loftus
Phone:	(508) 755-1286
Project Name:	06142021 STRM WTR 001
Project Number:	061421 STRM WTR
Report Date:	07/16/21

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2132210-01	0566 OF001	WATER	STORMWATER 001	06/14/21 09:01	06/15/21
L2132210-02	0565 OF001	WATER	STORMWATER 001	06/14/21 09:01	06/15/21
L2132210-03	0521 OF001	WATER	STORMWATER 001	06/14/21 09:01	06/15/21

Project Name:	06142021 STRM WTR 001	**Lab Number:**	L2132210
Project Number:	061421 STRM WTR	**Report Date:**	07/16/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	06142021 STRM WTR 001	**Lab Number:**	L2132210
Project Number:	061421 STRM WTR	**Report Date:**	07/16/21

Case Narrative (continued)

Sample Receipt

L2132210-01 through -03: The collection time were obtained from the container labels.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Sebastian Corbin

Title: Technical Director/Representative Date: 07/16/21

METALS

Project Name: 06142021 STRM WTR 001 **Lab Number:** L2132210

Project Number: 061421 STRM WTR **Report Date:** 07/16/21

SAMPLE RESULTS

Lab ID: L2132210-01 Date Collected: 06/14/21 09:01

Client ID: 0566 OF001 Date Received: 06/15/21

Sample Location: STORMWATER 001 Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Lead, Total	0.00924		mg/l	0.00100	--	1	06/29/21 14:10	07/15/21 17:15	EPA 3005A	3,200.8	CD

Project Name: 06142021 STRM WTR 001 **Lab Number:** L2132210

Project Number: 061421 STRM WTR **Report Date:** 07/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1516543-1										
Lead, Total	ND		mg/l	0.00100	--	1	06/29/21 14:10	07/15/21 16:10	3,200.8	CD

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 06142021 STRM WTR 001

Project Number: 061421 STRM WTR

Lab Number: L2132210

Report Date: 07/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1516543-2								
Lead, Total	94		-		85-115	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1516543-3 QC Sample: L2132335-01 Client ID: MS Sample												
Lead, Total	0.0852	0.53	0.6280	102		-	-		70-130	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1516543-5 QC Sample: L2132339-01 Client ID: MS Sample												
Lead, Total	0.2866	0.53	0.8148	100		-	-		70-130	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 06142021 STRM WTR 001

Project Number: 061421 STRM WTR

Lab Number: L2132210

Report Date: 07/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1516543-6 QC Sample: L2132339-01 Client ID: DUP Sample						
Lead, Total	0.2866	0.2669	mg/l	7		20

INORGANICS
&
MISCELLANEOUS

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

SAMPLE RESULTS

Lab ID: L2132210-02
Client ID: 0565 OF001
Sample Location: STORMWATER 001

Date Collected: 06/14/21 09:01
Date Received: 06/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Turbidity	23		NTU	0.20	--	1	-	06/16/21 08:17	44,180.1	KP

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

SAMPLE RESULTS

Lab ID: L2132210-03
Client ID: 0521 OF001
Sample Location: STORMWATER 001

Date Collected: 06/14/21 09:01
Date Received: 06/15/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	--	1	06/30/21 21:00	06/30/21 22:45	74,1664A	IR

Project Name: 06142021 STRM WTR 001 **Lab Number:** L2132210

Project Number: 061421 STRM WTR **Report Date:** 07/16/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1512714-1										
Turbidity	ND		NTU	0.20	--	1	-	06/16/21 08:17	44,180.1	KP
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1519091-1										
Oil & Grease, Hem-Grav	ND		mg/l	4.0	--	1	06/30/21 21:00	06/30/21 22:45	74,1664A	IR

Lab Control Sample Analysis
Batch Quality Control

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1512714-2								
Turbidity	106		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1519091-2								
Oil & Grease, Hem-Grav	93		-		78-114	-		18

Matrix Spike Analysis
Batch Quality Control

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1519091-4 QC Sample: L2132247-01 Client ID: MS Sample												
Oil & Grease, Hem-Grav	ND	41.2	32	78		-	-		78-114	-		18

Lab Duplicate Analysis

Batch Quality Control

Project Name: 06142021 STRM WTR 001

Project Number: 061421 STRM WTR

Lab Number: L2132210

Report Date: 07/16/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1512714-3 QC Sample: L2132210-02 Client ID: 0565 OF001						
Turbidity	23	23	NTU	0		13
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1519091-3 QC Sample: L2132405-02 Client ID: DUP Sample						
Oil & Grease, Hem-Grav	20	11	mg/l	**58**	Q	18

Project Name: 06142021 STRM WTR 001
Project Number: 061421 STRM WTR

Lab Number: L2132210
Report Date: 07/16/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2132210-01A	Plastic 250ml HNO3 preserved	A	<2	<2	3.0	Y	Absent		PB-2008T(180)
L2132210-02A	Plastic 250ml unpreserved	A	7	7	3.0	Y	Absent		TURB-180(2)
L2132210-03A	Amber 1000ml H2SO4 preserved	A	NA		3.0	Y	Absent		OG-1664(28)

*Values in parentheses indicate holding time in days

Project Name:	06142021 STRM WTR 001	**Lab Number:**	L2132210
Project Number:	061421 STRM WTR	**Report Date:**	07/16/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report

Project Name:	06142021 STRM WTR 001	**Lab Number:**	L2132210
Project Number:	061421 STRM WTR	**Report Date:**	07/16/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the reporting limit (RL) for the sample.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Project Name:	06142021 STRM WTR 001	**Lab Number:**	L2132210
Project Number:	061421 STRM WTR	**Report Date:**	07/16/21

Data Qualifiers

the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Project Name: 06142021 STRM WTR 001 **Lab Number:** L2132210
Project Number: 061421 STRM WTR **Report Date:** 07/16/21

REFERENCES

3 Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

74 Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL
World Class Chemistry

CHAIN OF CUSTODY

PAGE 1 OF 1

Westborough, MA
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA
TEL: 508-822-9300
FAX: 508-822-3288

Date Rec'd in Lab: 6/15/21

ALPHA Job #: L2132210

Client Information

Client: Upper Blackstone
Address: 50 Route 20
Millbury, MA 01527
Phone: (508) 755-1286
Fax: (508) 755-1289
Email: TLoftus@ubwpad.org

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: 06142021 Strm Wtr 001
Project Location: stormwater 001
Project #: 061421 Strm Wtr
Project Manager: T. Loftus
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info
PO #: 72442

Regulatory Requirements/Report Limits

State/Fed Program
Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Pb	Turbidity	Oil and Grease										Sample Specific Comments	TOTAL # BOTTLES
32210-1	0566 OF001	6/14/21		stm wtr	DA/DP	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	outfall 001	1
-2	0565 OF001	6/14/21		stm wtr	DA/DP	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	outfall 001	1
-3	0521 OF001	6/14/21		stm wtr	DA/DP	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	outfall 001	1
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
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						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		

Container Type	P	P	A	-	-	-	-	-	-	-	-	-
Preservative	C	A	D	-	-	-	-	-	-	-	-	-

Relinquished By:	Date/Time	Received By:	Date/Time
Denise Prouty	6/15/21 9:05AM		6/15/21 945
	6/15/21 1F	Meghan Murphy	6/15/21 1800

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I-NJ)
(rev. 5-JAN-12)

June 14, 2021 Worcester Airport

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	59 °F	53 °F	81 %	SW	10 mph	0 mph	28.83 in	0.0 in	Fair
1:54 AM	57 °F	53 °F	87 %	WSW	10 mph	0 mph	28.82 in	0.0 in	Fair
2:54 AM	57 °F	51 °F	81 %	SW	12 mph	0 mph	28.83 in	0.0 in	Fair
3:54 AM	56 °F	51 °F	84 %	SW	10 mph	0 mph	28.83 in	0.0 in	Fair
4:54 AM	56 °F	52 °F	87 %	SW	9 mph	0 mph	28.83 in	0.0 in	Fair
5:41 AM	56 °F	53 °F	90 %	SSW	8 mph	0 mph	28.83 in	0.0 in	Partly Cloudy
5:51 AM	55 °F	54 °F	94 %	SW	8 mph	0 mph	28.83 in	0.0 in	Mostly Cloudy
5:54 AM	56 °F	53 °F	90 %	SW	9 mph	0 mph	28.83 in	0.0 in	Mostly Cloudy
6:04 AM	56 °F	54 °F	93 %	SW	8 mph	0 mph	28.83 in	0.0 in	Fog
6:15 AM	56 °F	54 °F	93 %	SSW	8 mph	0 mph	28.83 in	0.0 in	Fog
6:43 AM	57 °F	55 °F	93 %	SSW	10 mph	0 mph	28.83 in	0.0 in	Fog
6:50 AM	57 °F	55 °F	94 %	SSW	12 mph	0 mph	28.83 in	0.0 in	Cloudy
6:54 AM	58 °F	55 °F	90 %	S	12 mph	0 mph	28.83 in	0.0 in	Cloudy
7:28 AM	59 °F	56 °F	90 %	S	9 mph	0 mph	28.83 in	0.0 in	Cloudy
7:54 AM	60 °F	56 °F	86 %	SSW	9 mph	0 mph	28.85 in	0.0 in	Cloudy
8:21 AM	59 °F	56 °F	90 %	W	12 mph	0 mph	28.90 in	0.0 in	Heavy Rain
8:24 AM	59 °F	56 °F	90 %	W	12 mph	0 mph	28.89 in	0.1 in	Heavy T-Storm
8:48 AM	59 °F	55 °F	88 %	SW	6 mph	0 mph	28.87 in	0.3 in	T-Storm
8:54 AM	59 °F	55 °F	87 %	SE	6 mph	0 mph	28.86 in	0.3 in	T-Storm
9:00 AM	59 °F	55 °F	87 %	SE	8 mph	0 mph	28.85 in	0.0 in	T-Storm
9:07 AM	58 °F	56 °F	93 %	SE	13 mph	0 mph	28.84 in	0.1 in	T-Storm
9:09 AM	58 °F	56 °F	93 %	SE	14 mph	0 mph	28.84 in	0.1 in	Rain
9:15 AM	58 °F	57 °F	97 %	SE	13 mph	0 mph	28.83 in	0.1 in	Rain
9:22 AM	58 °F	57 °F	97 %	SE	9 mph	0 mph	28.84 in	0.1 in	Rain
9:31 AM	58 °F	57 °F	97 %	SE	5 mph	0 mph	28.85 in	0.1 in	Rain
9:34 AM	58 °F	57 °F	97 %	SSE	6 mph	0 mph	28.86 in	0.1 in	Rain
9:42 AM	58 °F	56 °F	93 %	SSE	7 mph	0 mph	28.87 in	0.1 in	Light Rain
9:54 AM	59 °F	56 °F	90 %	S	8 mph	0 mph	28.87 in	0.2 in	Light Rain
10:36 AM	59 °F	56 °F	90 %	S	9 mph	0 mph	28.85 in	0.0 in	Cloudy
10:54 AM	59 °F	57 °F	93 %	S	10 mph	0 mph	28.86 in	0.0 in	Light Rain
11:03 AM	59 °F	56 °F	90 %	S	15 mph	20 mph	28.87 in	0.0 in	Light Rain
11:54 AM	58 °F	55 °F	90 %	SSW	9 mph	0 mph	28.87 in	0.1 in	Light Rain
12:33 PM	60 °F	57 °F	90 %	S	14 mph	21 mph	28.84 in	0.0 in	Cloudy
12:54 PM	60 °F	57 °F	90 %	S	12 mph	0 mph	28.84 in	0.0 in	Light Rain
1:13 PM	60 °F	57 °F	90 %	S	9 mph	0 mph	28.84 in	0.0 in	Light Rain
1:54 PM	61 °F	58 °F	90 %	S	9 mph	0 mph	28.83 in	0.0 in	Cloudy
2:12 PM	61 °F	58 °F	90 %	S	10 mph	0 mph	28.83 in	0.0 in	Light Rain

2:19 PM	61 °F	58 °F	90 %	S	10 mph	0 mph	28.82 in	0.0 in	Cloudy
2:54 PM	62 °F	59 °F	90 %	S	8 mph	0 mph	28.81 in	0.0 in	Cloudy
3:00 PM	62 °F	59 °F	90 %	S	9 mph	0 mph	28.80 in	0.0 in	Cloudy
3:07 PM	62 °F	59 °F	90 %	S	9 mph	0 mph	28.81 in	0.0 in	Cloudy
3:24 PM	62 °F	59 °F	90 %	S	9 mph	0 mph	28.80 in	0.0 in	Cloudy
3:46 PM	62 °F	59 °F	90 %	S	10 mph	0 mph	28.80 in	0.0 in	Cloudy
3:51 PM	63 °F	57 °F	82 %	S	12 mph	0 mph	28.80 in	0.0 in	Cloudy
3:54 PM	62 °F	58 °F	86 %	S	9 mph	0 mph	28.79 in	0.0 in	Cloudy
4:54 PM	63 °F	59 °F	87 %	S	8 mph	0 mph	28.79 in	0.0 in	Light Rain
5:03 PM	63 °F	59 °F	87 %	S	5 mph	0 mph	28.78 in	0.0 in	Cloudy
5:12 PM	63 °F	59 °F	87 %	S	7 mph	0 mph	28.79 in	0.0 in	Cloudy
5:54 PM	63 °F	60 °F	90 %	S	7 mph	0 mph	28.77 in	0.0 in	Cloudy
6:54 PM	64 °F	61 °F	90 %	S	6 mph	0 mph	28.78 in	0.0 in	Cloudy
7:54 PM	64 °F	61 °F	90 %	SSW	7 mph	0 mph	28.77 in	0.0 in	Cloudy
8:54 PM	64 °F	61 °F	90 %	S	8 mph	0 mph	28.76 in	0.0 in	Cloudy
9:46 PM	64 °F	61 °F	90 %	SW	3 mph	0 mph	28.77 in	0.0 in	Cloudy
9:54 PM	64 °F	61 °F	90 %	SSW	3 mph	0 mph	28.77 in	0.0 in	Cloudy
10:11 PM	64 °F	61 °F	90 %	S	3 mph	0 mph	28.77 in	0.0 in	Cloudy
10:26 PM	63 °F	61 °F	93 %	SE	5 mph	0 mph	28.75 in	0.0 in	Mostly Cloudy
10:37 PM	63 °F	61 °F	93 %	SE	3 mph	0 mph	28.75 in	0.0 in	Partly Cloudy
10:50 PM	63 °F	61 °F	94 %	SSE	5 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy
10:54 PM	63 °F	61 °F	93 %	S	5 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy
11:25 PM	63 °F	61 °F	93 %	SSW	5 mph	0 mph	28.76 in	0.0 in	Cloudy
11:52 PM	63 °F	61 °F	94 %	SW	5 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy
11:54 PM	63 °F	61 °F	93 %	SW	3 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 10/5/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): _

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed 10/5/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 2nd Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/5/21

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Q 2021	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Denise Prouty (Sr. Lab Tech) and Amanda Deguire (Lab Tech)			
Person(s) / Title(s) examining sample: Amanda Deguire (Lab Tech) and Ornela Piluri (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 09/01/21	Date & Time Sample: 09/01/21 01:38 pm Laboratory Samples Collected: Yes X No N/A	Date & Time Sample Examined: 09/01/21 02:51 pm	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): light greenish gray 8/10Y		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe): soapy look		
Other Obvious Indicators of Storm Water Pollution	No X Yes (describe):		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: X No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
X No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/5/21

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

Sampling Date: Wednesday, September 1, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.002	9/10/21		PS	mg/L	200.8	Alpha
T. Phosphorus	0.05	9/3/2021		DP	mg/L	365.2	UB
E. coli	>2,419.6	9/1/2021	9/2/2021	DP/AD	MPN	Colilert	UB
pH	7.1	9/1/2021		DP/AD	SU	150.2	UB
Dissolved Oxygen	8.5	9/1/2021		DP/AD	mg/L	360.1	UB
Dissolved Oxygen	97.1	9/1/2021		DP/AD	%	360.1	UB
Temperature	21.3	9/1/2021		DP/AD	deg C	SM 2550	UB
TSS	2.0	9/2/21	9/3/21	DA/AD	mg/L	160.2	UB
FOG	4.0	9/14/21		TL	mg/L	1164 A	Alpha
Turbidity	2.5	9/4/21		KA	NTU	180.1	Alpha
COD	13.3	9/3/21		DP	mg/L	8000	UB

STORMWATER 001

9/1/2021

1:38 pm

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Q 2021	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Ornela Piluri (Sr. Lab Tech) and Sharon Lawson (IPP Coordinator)			
Person(s) / Title(s) examining sample: Sharon Lawson (IPP Coordinator)			
Date & Time Storm or Snowmelt Began: 09/01/21	Date & Time Sample: 09/02/21 05:22 am Laboratory Samples Collected: Yes X No N/A	Date & Time Sample Examined: 09/02/21 05:49 am	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): yellow 10Y 8/6		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): X duck weed, two small pieces of Styrofoam (fine size)		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X Yes (describe):		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: X No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
X No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Sample taken several hours into storm during a WWD. Flooded sample site at Outfall 002. Took sample upstream from manhole. Photo taken.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/5/21

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

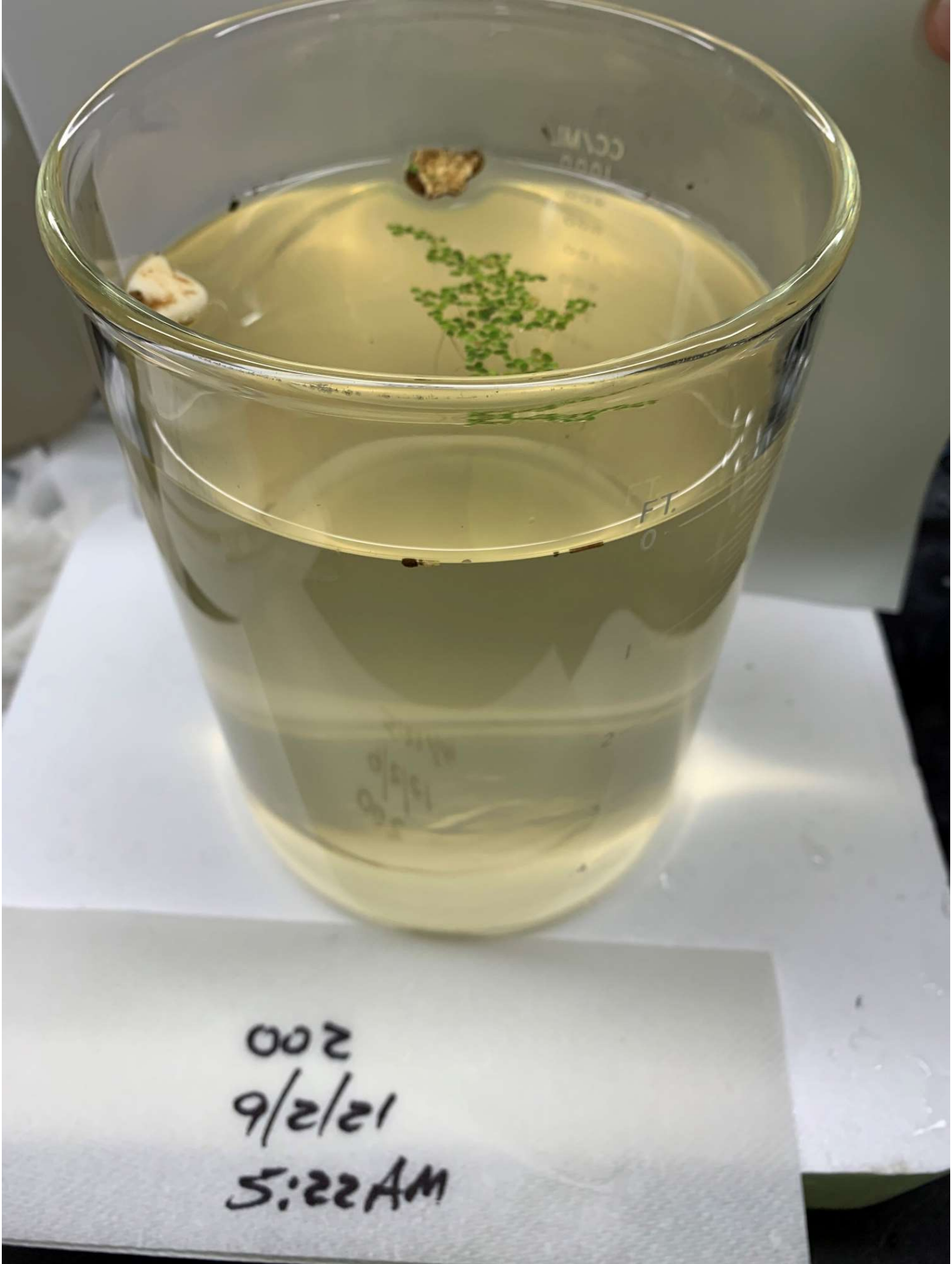
Outfall 2 Treatment Sector T

Sampling Date: Thursday, September 2, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.005	9/10/21		PS	mg/L	200.8	Alpha
T. Phosphorus	0.18	9/3/2021		DP	mg/L	365.2	UB
E.coli	5.2	9/2/2021	9/2/2021	OP/RS	MPN	Colilert	UB
pH	7.0	9/2/2021		SL/OP	SU	150.2	UB
Dissolved Oxygen	7.9	9/2/2021		SL/OP	mg/L	360.1	UB
Dissolved Oxygen	83.8	9/2/2021		SL/OP	%	360.1	UB
Temperature	16.5	9/2/2021		SL/OP	deg. C	SM 2550	UB
TSS	14.0	9/2/21	9/3/21	DA/AD	mg/L	160.2	UB
FOG	4.0	9/14/21		TL	mg/L	1664 A	Alpha
Turbidity	8.5	9/4/21		KA	NTU	180.1	Alpha
COD	25.0	9/3/2021		DP	mg/L	8000	UB


200
9/2/21
5:22AM


WY22:5
12/2/6
200

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ___ Yes (explain): _X_

Outfall sample location was not accessible due to backup of the Blackstone River.

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/6/21


STORM WATER
OUTFALL
003

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? X No Yes (identify substantially identical outfalls):		
Quarter / Year: 3rd Q 2021	Substitute Sample?: X No Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Tim Loftus (Lab Manager) and Ornela Piluri (Sr. Lab Tech)			
Person(s) / Title(s) examining sample: Tim Loftus (Lab Manager)			
Date & Time Storm or Snowmelt Began: 09/01/21	Date & Time Sample: 09/02/21 04:12 am Laboratory Samples Collected: Yes X No N/A	Date & Time Sample Examined: 09/02/21 05:00 am	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): yellowish brown 10Y 8/6		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	No X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X Yes (describe):		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: X No Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
X No Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Sample taken several hours into storm during a WWD, but at estimated time of retaining pond discharge. Took sample near discharge pipe in pond (which was under water). Photo taken.

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 10/5/21

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

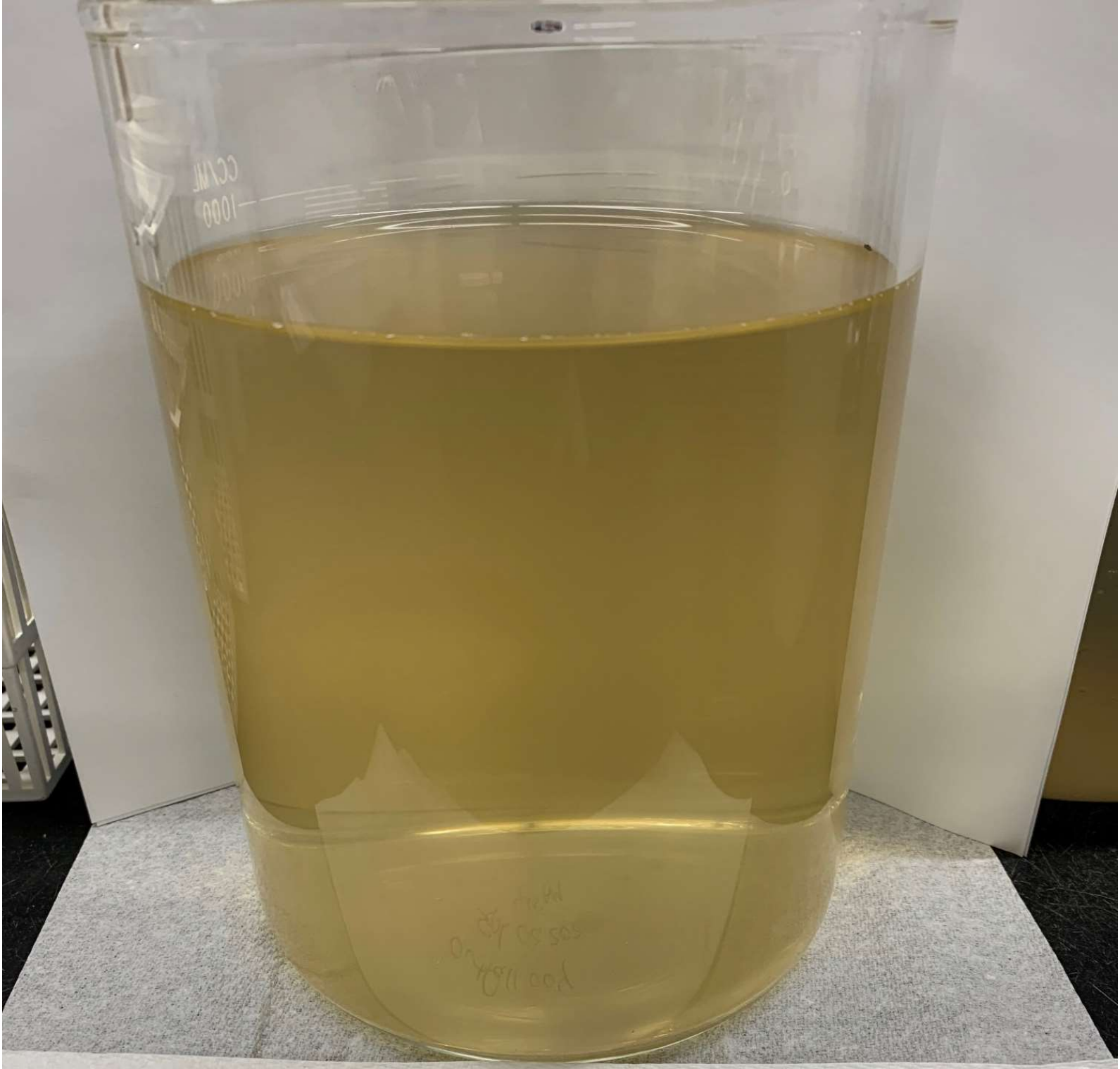
Outfall 4 Treatment Sector L

Sampling Date: Thursday, September 2, 2021

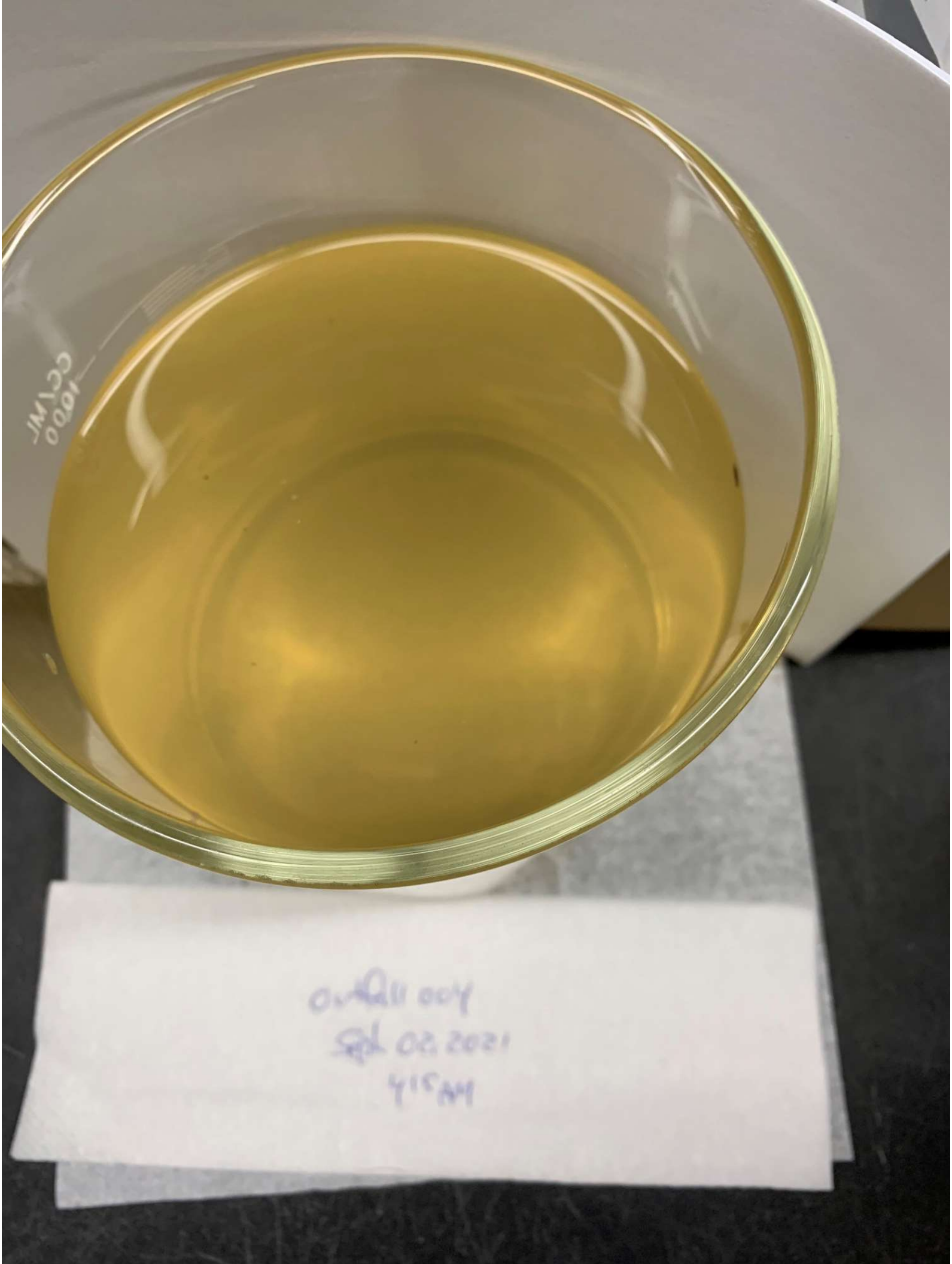
Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.005	9/10/21		PS	mg/L	200.8	Alpha
T. Phosphorus	0.56	9/3/2021		DP	mg/L	365.2	UB
E.coli	<1.0	9/2/2021	9/2/2021	RS	MPN	Colilert	UB
pH	6.7	9/2/2021		TL	SU	150.2	UB
Dissolved Oxygen	6.6	9/2/2021		TL	mg/L	360.1	UB
Dissolved Oxygen	70.6	9/2/2021		TL	% sat	360.1	UB
Temperature	16.9	9/2/2021		TL	deg. C	SM 2550	UB
TSS	10.6	9/2/21	9/3/21	DA/AD	mg/L	160.2	UB
FOG	4.0	9/14/21		TL	mg/L	1664 A	Alpha
Turbidity	9.9	9/4/21		KA	NTU	180.1	Alpha
COD	37.7	9/3/2021		DP	mg/L	8000	UB



outfall 004
Sept 02, 2021
415AM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MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 4th Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Denise Prouty, Amanda Coffuire			
Person(s) / Title(s) examining sample: Denise Prouty, Amanda Coffuire			
Date & Time Storm or Snowmelt Began: October 25, 2021. 03:45 am (intermittent)	Date & Time Sample Collected: October 26, 2021. 08:38 am	Date & Time Sample Examined: October 26, 2021 09:20 am	
Nature of Discharge: Rainfall			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain): Storm started intermittently at 03:45 am 10/25/2021. Then again starting at 0212 am on 10/26/2021.		
Parameter			
Color	None Other (describe): 5Y 8/2 pale yellow		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque X Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No Yes (describe): small particles coating bottom of beaker.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 1/10/2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

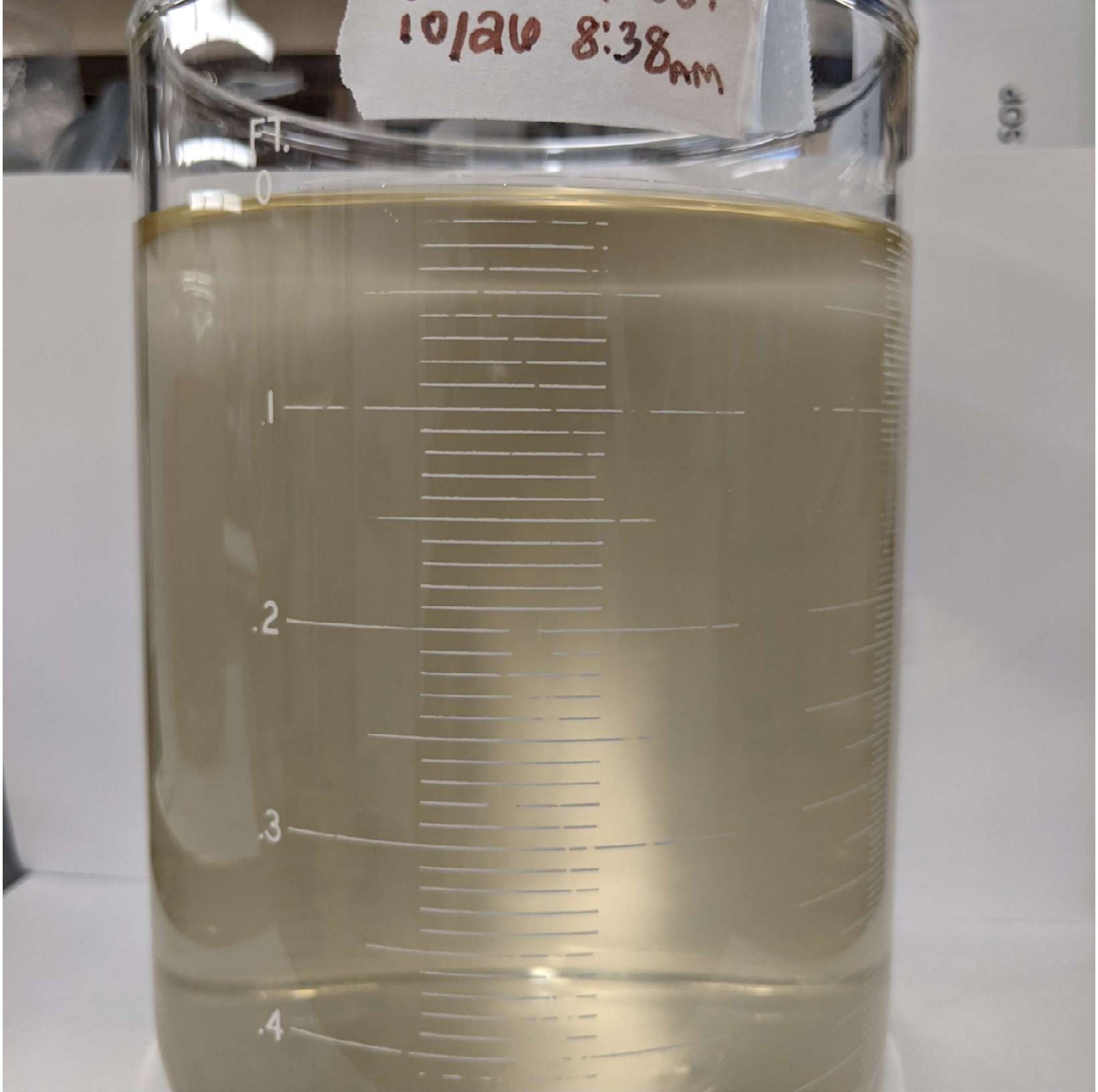
Outfall 1 Treatment Sector T

Sampling Date: Tuesday, October 26, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	6.4	10/26/21		DC & DP	SU	150.2	UB
Dissolved Oxygen	9.5	10/26/21		DC & DP	mg/L	360.1	UB
Dissolved Oxygen	92.8	10/26/21		DC & DP	%	360.1	UB
Temperature	13.2	10/26/21		DC & DP	deg C	SM 2550	UB
TSS	2.4	10/26/21	10/27/21	DA	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	27.2	10/28/21		AC	mg/L	8000	UB


10/26 8:38AM
FT.
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MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 4th Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Denise Prouty, Amanda Coffuire			
Person(s) / Title(s) examining sample: Denise Prouty, Amanda Coffuire			
Date & Time Storm or Snowmelt Began: October 25, 2021. 03:45 am (intermittent)	Date & Time Sample Collected: October 26, 2021. 08:51 am	Date & Time Sample Examined: October 26, 2021 09:20 am	
Nature of Discharge: Rainfall			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain): Storm started intermittently at 03:45 am 10/25/2021. Then again starting at 0212 am on 10/26/2021.		
Parameter			
Color	None Other (describe): 5Y 7/4 pale yellow		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque X Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No Yes (describe): small particles coating bottom of beaker.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 1/10/2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

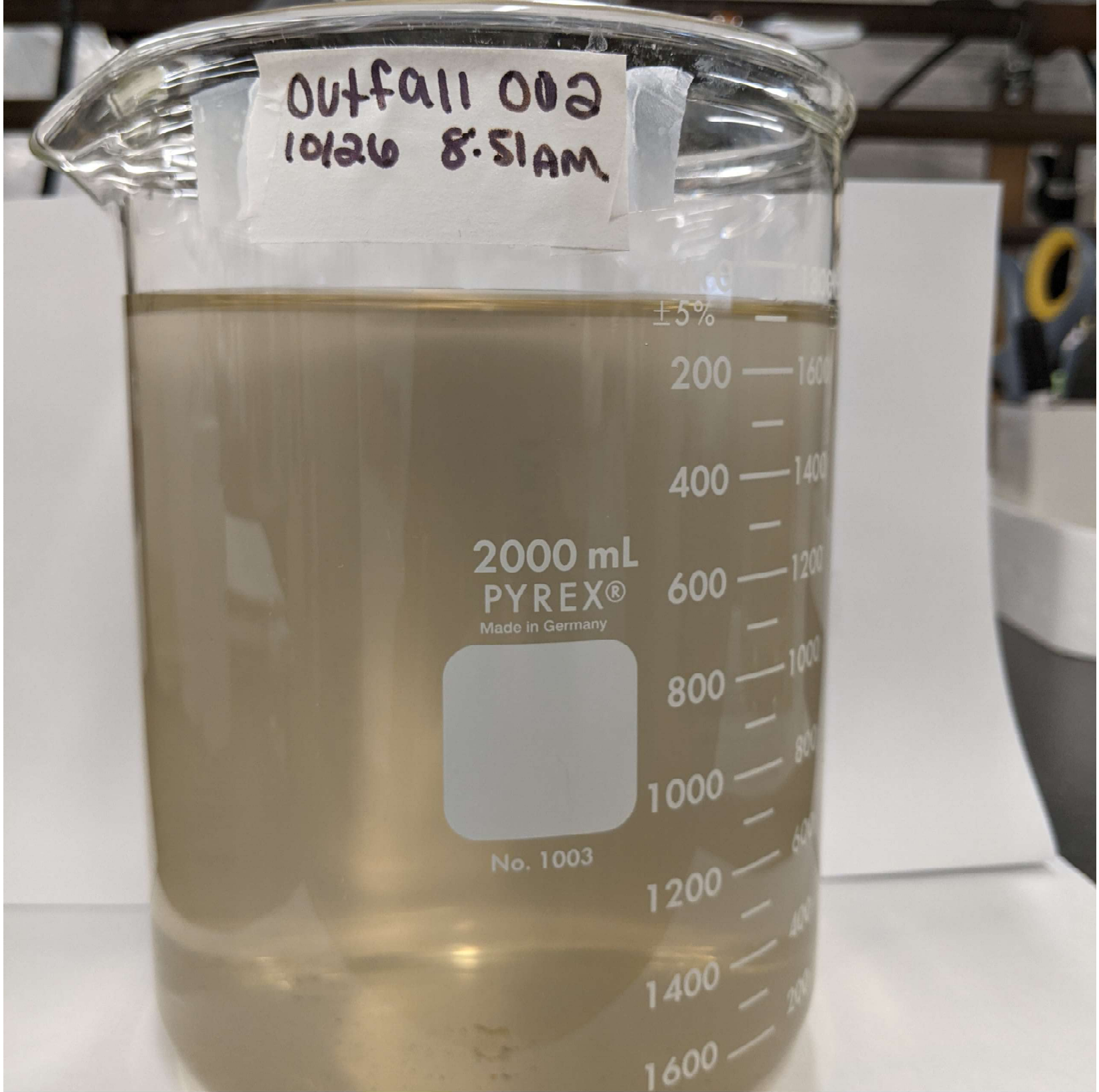
Outfall 2 Treatment Sector T

Sampling Date: Tuesday, October 26, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.9	10/26/21		DC & DP	SU	150.2	UB
Dissolved Oxygen	7.2	10/26/21		DC & DP	mg/L	360.1	UB
Dissolved Oxygen	68.7	10/26/21		DC & DP	%	360.1	UB
Temperature	12.2	10/26/21		DC & DP	deg. C	SM 2550	UB
TSS	4.6	10/26/21	10/27/21	DA	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	26.8	10/28/21		AC	mg/L	8000	UB


Outfall 002
10/26 8:51AM
±5%
2000 mL
PYREX®
Made in Germany
No. 1003

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 4th Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Devon Avery, Lab Tech.			
Person(s) / Title(s) examining sample: Devon Avery, Lab Tech			
Date & Time Storm or Snowmelt Began: 11/12/21 06:54 am.	Date & Time Sample Collected: 11/12/21 02:54 pm.	Date & Time Sample Examined: 11/12/21 03:24 pm.	
Nature of Discharge: Rainfall X Snowmelt			
Rainfall Amount: 0.90 inches	Previous Storm Ended > 72 hours Before Start of This Storm? Yes X No* (explain):		
Parameter			
Color	None Other (describe): 1 YR 7/4 very pale brown		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe): X Fishy smell		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No	Yes (describe): X grass pieces	
Settled Solids**	No	Yes (describe): X dirt	
Suspended Solids	No	Yes (describe): X grass	
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X	Yes (describe):	
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey D. Date Signed 1/10/2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

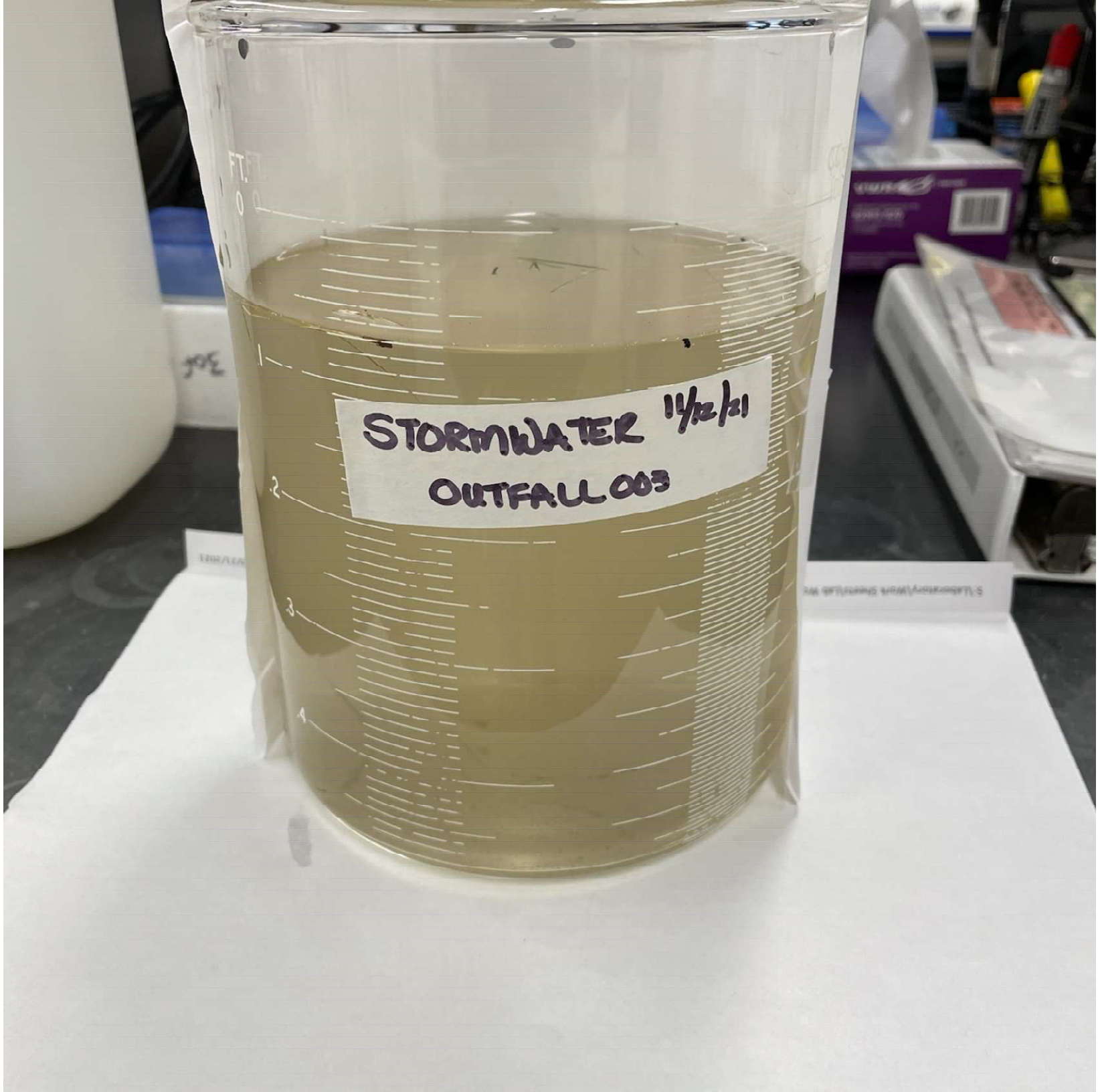
Outfall 3 Treatment Sector T

Sampling Date: Friday, November 12, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.0	11/30/2021		WP	mg/L	200.8	Alpha
T. Phosphorus	0.46	11/16/2021		AC	mg/L	365.2	UB
E. coli	3,654.0	11/12/2021	11/13/2021	DA/AC	MPN	Colilert	UB
pH	7.0	11/12/2021		DA	SU	150.2	UB
Dissolved Oxygen	9.3	11/12/2021		DA	mg/L	360.1	UB
Dissolved Oxygen	95.7	11/12/2021		DA	%	360.1	UB
Temperature	15.7	11/12/2021		DA	deg. C	SM 2550	UB
TSS	47	11/16/2021	11/17/2021	SK	mg/L	160.2	UB
FOG	<4.0	11/30/2021		TL	mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	18.0	11/17/21		AC	mg/L	8000	UB


STORMWATER 11/12/21
OUTFALL 003

Weather Underground Vernon Hill Station. Worcester, MA

Daily Observations November 12, 2021

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	46 °F	39 °F	76 %	SE	8 mph	0 mph	29.22 in	0.0 in	Cloudy
1:54 AM	45 °F	39 °F	80 %	E	7 mph	0 mph	29.19 in	0.0 in	Partly Cloudy
2:54 AM	46 °F	40 °F	79 %	ESE	10 mph	0 mph	29.17 in	0.0 in	Cloudy
3:36 AM	46 °F	40 °F	79 %	E	10 mph	0 mph	29.15 in	0.0 in	Cloudy
3:54 AM	46 °F	40 °F	79 %	E	8 mph	17 mph	29.14 in	0.0 in	Cloudy
4:54 AM	47 °F	41 °F	80 %	ESE	8 mph	0 mph	29.13 in	0.0 in	Cloudy
5:54 AM	47 °F	42 °F	83 %	E	8 mph	0 mph	29.10 in	0.0 in	Cloudy
6:03 AM	47 °F	42 °F	83 %	E	8 mph	0 mph	29.09 in	0.0 in	Cloudy
6:54 AM	47 °F	44 °F	90 %	E	9 mph	0 mph	29.07 in	0.0 in	Heavy Rain
7:52 AM	46 °F	45 °F	93 %	E	7 mph	0 mph	29.05 in	0.1 in	Light Rain
7:54 AM	47 °F	45 °F	93 %	ENE	9 mph	0 mph	29.05 in	0.1 in	Light Rain
8:41 AM	48 °F	47 °F	96 %	E	8 mph	0 mph	29.04 in	0.0 in	Cloudy
8:54 AM	48 °F	47 °F	96 %	NE	7 mph	0 mph	29.03 in	0.0 in	Fog
9:01 AM	48 °F	48 °F	100 %	ENE	8 mph	0 mph	29.02 in	0.0 in	Fog
9:27 AM	49 °F	48 °F	97 %	E	6 mph	0 mph	28.99 in	0.0 in	Light Rain
9:47 AM	50 °F	49 °F	96 %	VAR	5 mph	0 mph	28.97 in	0.0 in	Fog
9:54 AM	50 °F	49 °F	96 %	ENE	5 mph	0 mph	28.96 in	0.0 in	Light Rain
10:15 AM	52 °F	51 °F	97 %	ESE	6 mph	0 mph	28.94 in	0.0 in	Light Rain
10:22 AM	53 °F	52 °F	96 %	SE	10 mph	0 mph	28.94 in	0.0 in	Rain
10:33 AM	55 °F	55 °F	100 %	SE	14 mph	24 mph	28.93 in	0.1 in	Rain
10:41 AM	56 °F	55 °F	97 %	SE	18 mph	23 mph	28.93 in	0.1 in	Light Rain
10:54 AM	56 °F	56 °F	100 %	SSE	14 mph	21 mph	28.92 in	0.1 in	Rain
11:09 AM	56 °F	56 °F	100 %	SSE	10 mph	21 mph	28.89 in	0.1 in	Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:16 AM	57 °F	56 °F	96 %	SSE	14 mph	23 mph	28.88 in	0.1 in	Rain
11:54 AM	58 °F	57 °F	97 %	SSE	18 mph	29 mph	28.83 in	0.2 in	Light Rain
12:54 PM	59 °F	58 °F	96 %	SSE	23 mph	30 mph	28.77 in	0.1 in	Rain / Windy
1:54 PM	60 °F	59 °F	96 %	S	13 mph	28 mph	28.74 in	0.1 in	Light Rain
2:01 PM	60 °F	59 °F	96 %	S	10 mph	0 mph	28.74 in	0.0 in	Rain
2:38 PM	60 °F	59 °F	96 %	WNW	15 mph	23 mph	28.74 in	0.1 in	Light Rain
2:45 PM	58 °F	56 °F	93 %	W	16 mph	33 mph	28.75 in	0.1 in	Heavy Rain
2:51 PM	57 °F	55 °F	94 %	W	17 mph	33 mph	28.75 in	0.2 in	Heavy Rain
2:54 PM	57 °F	56 °F	96 %	W	15 mph	24 mph	28.75 in	0.3 in	Heavy Rain
3:00 PM	57 °F	56 °F	96 %	W	16 mph	23 mph	28.75 in	0.1 in	Light Rain
3:54 PM	57 °F	56 °F	96 %	SW	12 mph	0 mph	28.76 in	0.1 in	Cloudy
4:39 PM	56 °F	55 °F	97 %	SW	8 mph	0 mph	28.78 in	0.0 in	Mostly Cloudy
4:51 PM	57 °F	55 °F	94 %	WSW	8 mph	0 mph	28.78 in	0.0 in	Mostly Cloudy
4:54 PM	57 °F	55 °F	93 %	WSW	7 mph	0 mph	28.78 in	0.0 in	Mostly Cloudy
5:54 PM	54 °F	53 °F	97 %	SW	5 mph	0 mph	28.79 in	0.0 in	Partly Cloudy
6:54 PM	54 °F	53 °F	97 %	WSW	10 mph	0 mph	28.79 in	0.0 in	Mostly Cloudy
7:04 PM	54 °F	53 °F	97 %	W	10 mph	0 mph	28.80 in	0.0 in	Mostly Cloudy
7:54 PM	51 °F	46 °F	83 %	W	12 mph	0 mph	28.82 in	0.0 in	Mostly Cloudy
8:01 PM	51 °F	46 °F	83 %	W	10 mph	0 mph	28.82 in	0.0 in	Fair
8:54 PM	49 °F	46 °F	90 %	WNW	12 mph	0 mph	28.83 in	0.0 in	Fair
9:54 PM	47 °F	39 °F	74 %	WNW	7 mph	0 mph	28.84 in	0.0 in	Fair
10:54 PM	43 °F	38 °F	82 %	WNW	6 mph	0 mph	28.84 in	0.0 in	Fair
11:54 PM	42 °F	38 °F	85 %	NW	8 mph	0 mph	28.83 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 4th Quarter 2021	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Denise Prouty, Amanda Coffuire			
Person(s) / Title(s) examining sample: Denise Prouty, Amanda Coffuire			
Date & Time Storm or Snowmelt Began: October 25, 2021. 03:45 am (intermittent)	Date & Time Sample Collected: October 26, 2021. 02:19 pm	Date & Time Sample Examined: October 26, 2021 02:36 pm	
Nature of Discharge: Rainfall			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain): Storm started intermittently at 03:45 am 10/25/2021. Then again starting at 0212 am on 10/26/2021.		
Parameter			
Color	None Other (describe): 5Y 8/4 pale yellow		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No Yes (describe): small particles coating bottom of beaker.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe): Sudsy. Bubbles medium to small		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey D. Date Signed 1/10/2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

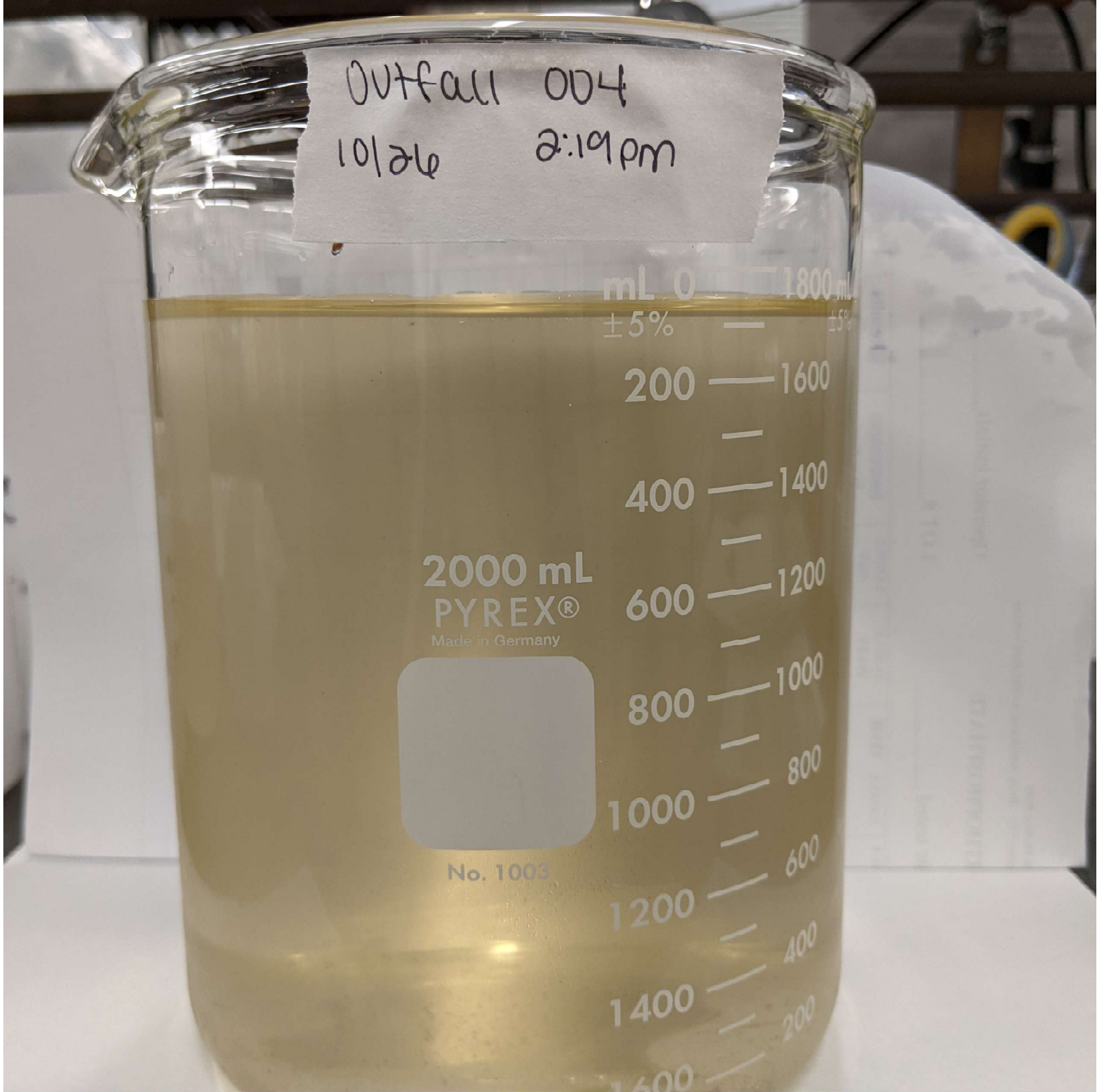
Outfall 4 Treatment Sector L

Sampling Date: Tuesday, October 26, 2021

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	7.0	10/26/21		AC & DP	SU	150.2	UB
Dissolved Oxygen	5.7	10/26/21		AC & DP	mg/L	360.1	UB
Dissolved Oxygen	55.1	10/26/21		AC & DP	% sat	360.1	UB
Temperature	12.2	10/26/21		AC & DP	deg. C	SM 2550	UB
TSS	5.6	10/26/21	10/27/21	DA	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	45.0	10/28/21		AC	mg/L	8000	UB


Outfall 004
10/26 2:19pm
2000 mL
PYREX®
Made in Germany
No. 1003

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 001	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2022	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Dennis Lowe / Regulatory Compliance Engineer and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/10/22	Date & Time Sample Collected: 3/10/22 10:47 am	Date & Time Sample Examined: 3/10/22 1200 pm	
Nature of Discharge: Rainfall Snowmelt X			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* X (explain): Snow 3/9, 0.31"		
Parameter			
Color	None Other (describe): Gley1 7/1		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy X Cloudy Opaque Other (describe):		
Floating Solids	No X Yes (describe):		
Settled Solids**	No X Yes (describe):		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 27, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

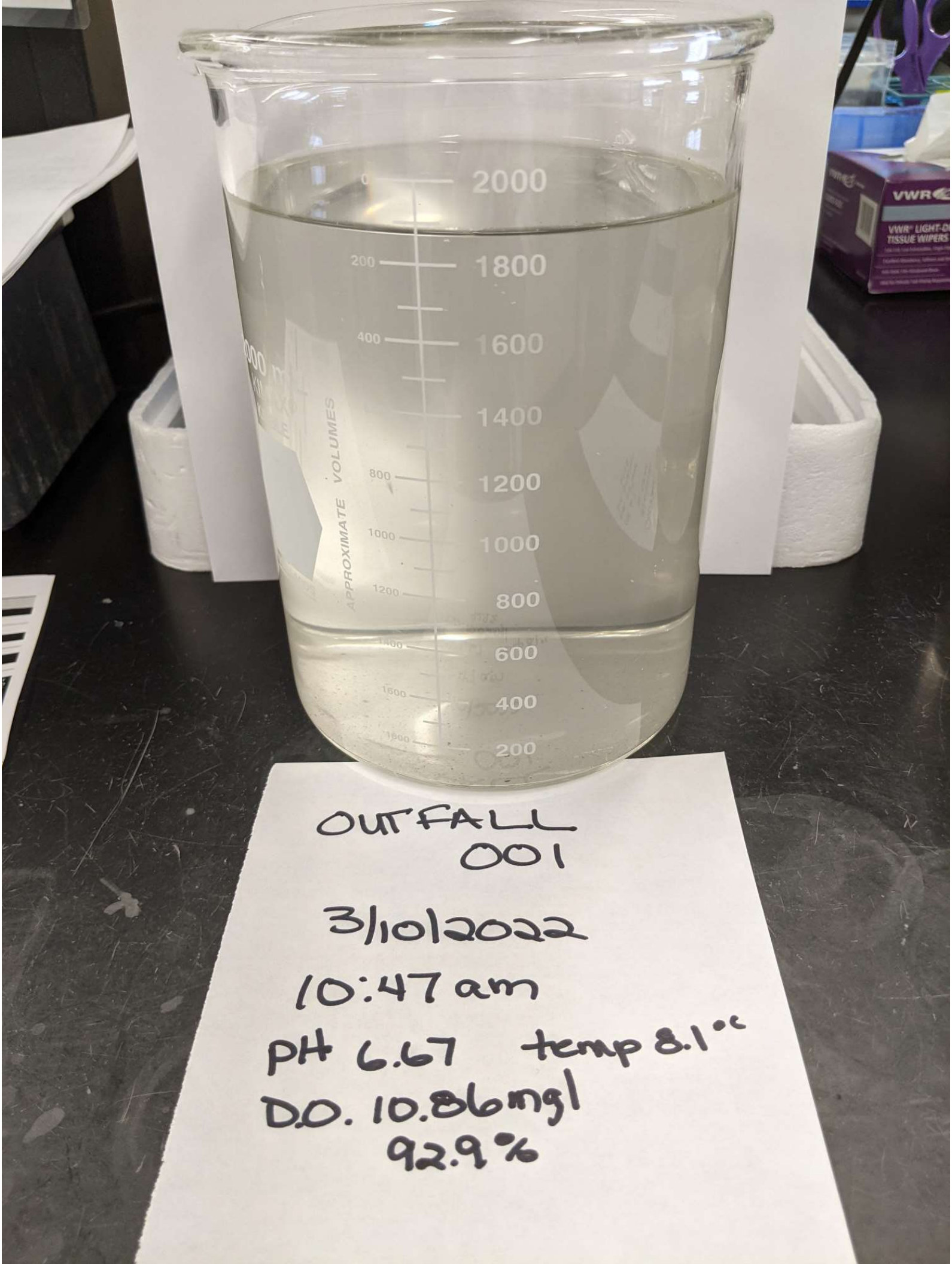
Sampling Date: Thursday, March 10, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.09	3/15/2022		DP	mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	6.7	3/10/2022		DP	SU	150.2	UB
Dissolved Oxygen	10.9	3/10/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	92.9	3/10/2022		DP	%	360.1	UB
Temperature	8.1	3/10/2022		DP	deg C	SM 2550	UB
TSS	10.5	3/11/2022	3/12/2022	SK/AC	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	75.0	3/10/2022		DP	mg/L	8000	UB


5/10/2022
10:47 am


OUTFALL
001
3/10/2022
10:47 am
pH 6.67 temp 8.1°c
D.O. 10.86 mg/l
92.9%

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 002	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2022	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Dennis Lowe / Regulatory Compliance Engineer and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/10/22	Date & Time Sample Collected: 3/10/22 10:58 am	Date & Time Sample Examined: 3/10/22 1200 pm	
Nature of Discharge: Rainfall Snowmelt X			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* X (explain): Snow 3/9, 0.31"		
Parameter			
Color	None Other (describe): 5Y 7/2		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): X Piece of a leaf.		
Settled Solids**	No Yes (describe): X Large particles of dirt.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 27, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

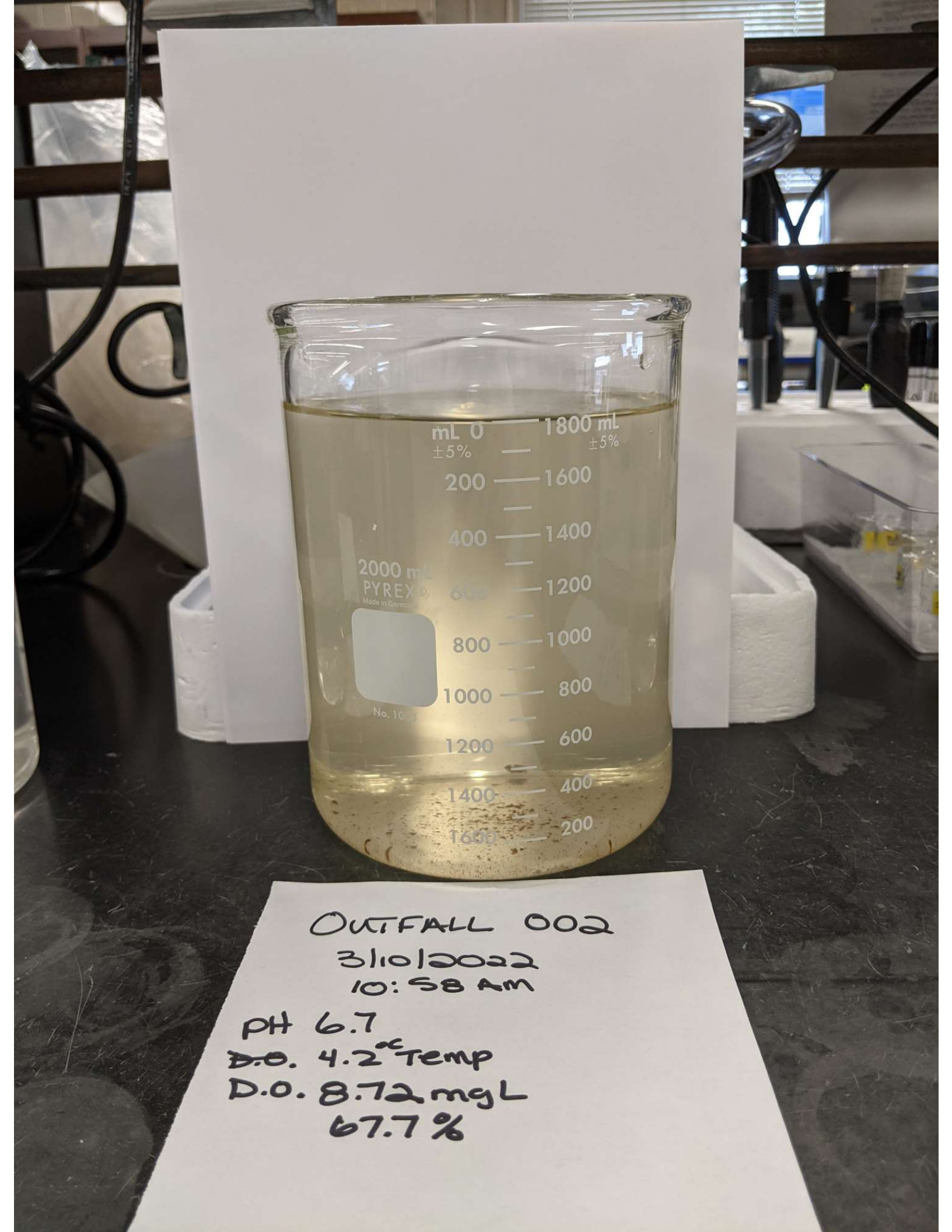
Outfall 2 Treatment Sector T

Sampling Date: Thursday, March 10, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.14	3/15/2022		DP	mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.7	3/10/2022		DP	SU	150.2	UB
Dissolved Oxygen	8.7	3/10/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	67.7	3/10/2022		DP	%	360.1	UB
Temperature	4.2	3/10/2022		DP	deg. C	SM 2550	UB
TSS	15.4	3/11/2022	3/12/2022	SK/AC	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	57.0	3/15/2022		DP	mg/L	8000	UB


mL 0
±5%
1800 mL
±5%
200
1600
400
1400
2000 mL
PYREX
1200
800
1000
1000
800
600
1200
400
1400
200
1600
OUTFALL 002
3/10/2022
10:58 AM
pH 6.7
~~D.O.~~ 4.2°C Temp
D.O. 8.72 mg/L
67.7 %

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 003	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2022	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	Date & Time Sample Collected:	Date & Time Sample Examined:	
Nature of Discharge: Rainfall Snowmelt			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* (explain):		
Parameter			
Color	None Other (describe):		
Odor	None Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe):		
Settled Solids**	No Yes (describe):		
Suspended Solids	No Yes (describe):		
Oil Sheen	None Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No Yes (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 27, 2022

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		Permit No: MA 0102369	
Street Address: 50 Route 20		City: Millbury	State: MA / Zip Code: 01527
Outfall Number: 004	"Substantially Identical Outfall"? No X Yes (identify substantially identical outfalls):		
Quarter / Year: 1st Quarter 2022	Substitute Sample?: No X Yes (identify quarter/year when sample was originally scheduled to be collected):		
Person(s) / Title(s) collecting sample: Dennis Lowe / Regulatory Compliance Engineer and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/10/22	Date & Time Sample Collected: 3/10/22 11:08 am	Date & Time Sample Examined: 3/10/22 1200 pm	
Nature of Discharge: Rainfall Snowmelt X			
Rainfall Amount:	Previous Storm Ended > 72 hours Before Start of This Storm? Yes No* X (explain): Snow 3/9, 0.31"		
Parameter			
Color	None Other (describe): 5Y 8/2		
Odor	None X Musty Sewage Sulfur Sour Petroleum/Gas Solvents Other (describe):		
Clarity	Clear X Slightly Cloudy Cloudy Opaque Other (describe):		
Floating Solids	No Yes (describe): X Small piece of Styrofoam.		
Settled Solids**	No Yes (describe): X Very small particles coating bottom of beaker.		
Suspended Solids	No X Yes (describe):		
Oil Sheen	None X Flecks Globs Sheen Slick Other (describe):		
Foam (gently shake sample)	No X Yes (describe):		
Other Obvious Indicators of Storm Water Pollution	No X		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No X Yes (explain): __

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter:
No X Yes (explain): __

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 27, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

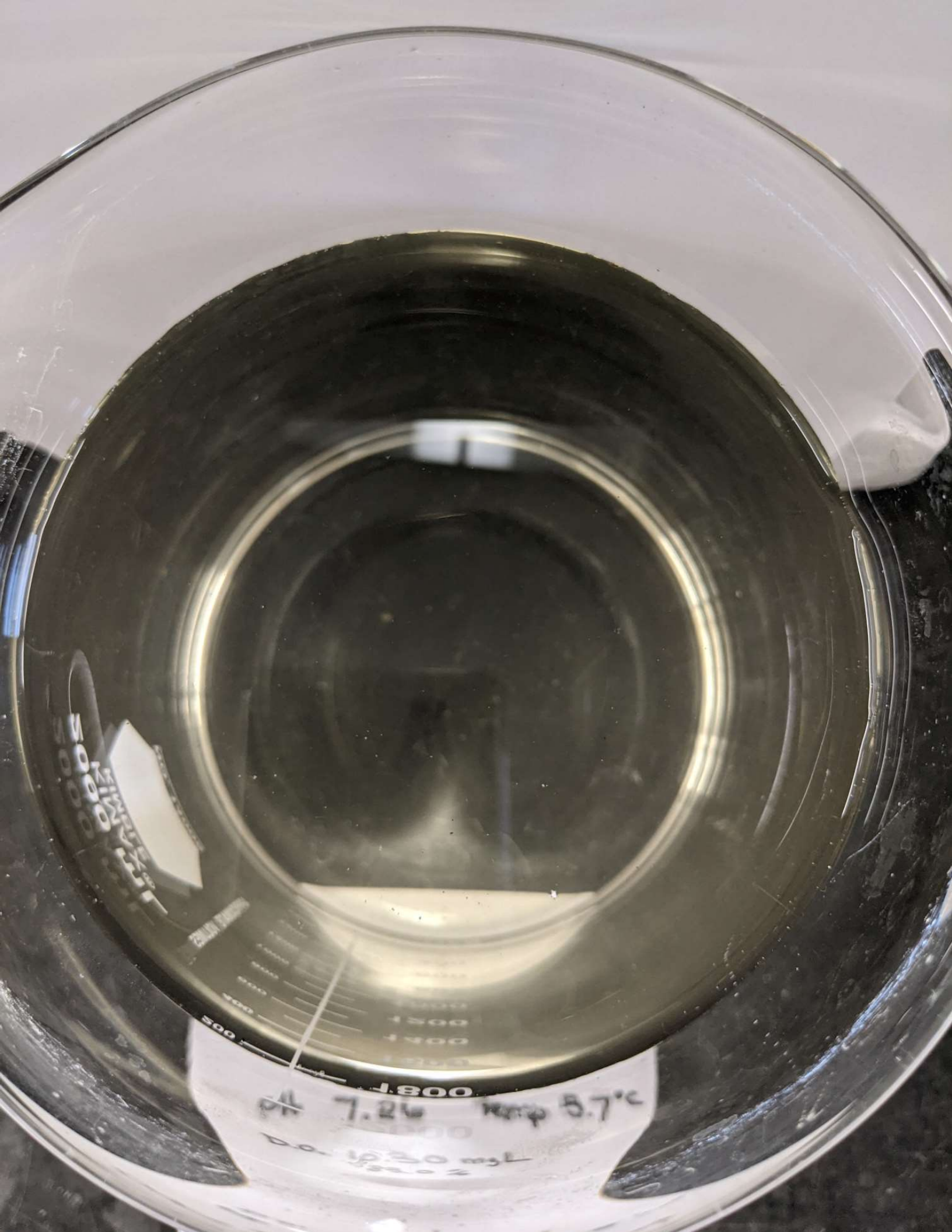
Outfall 4 Treatment Sector L

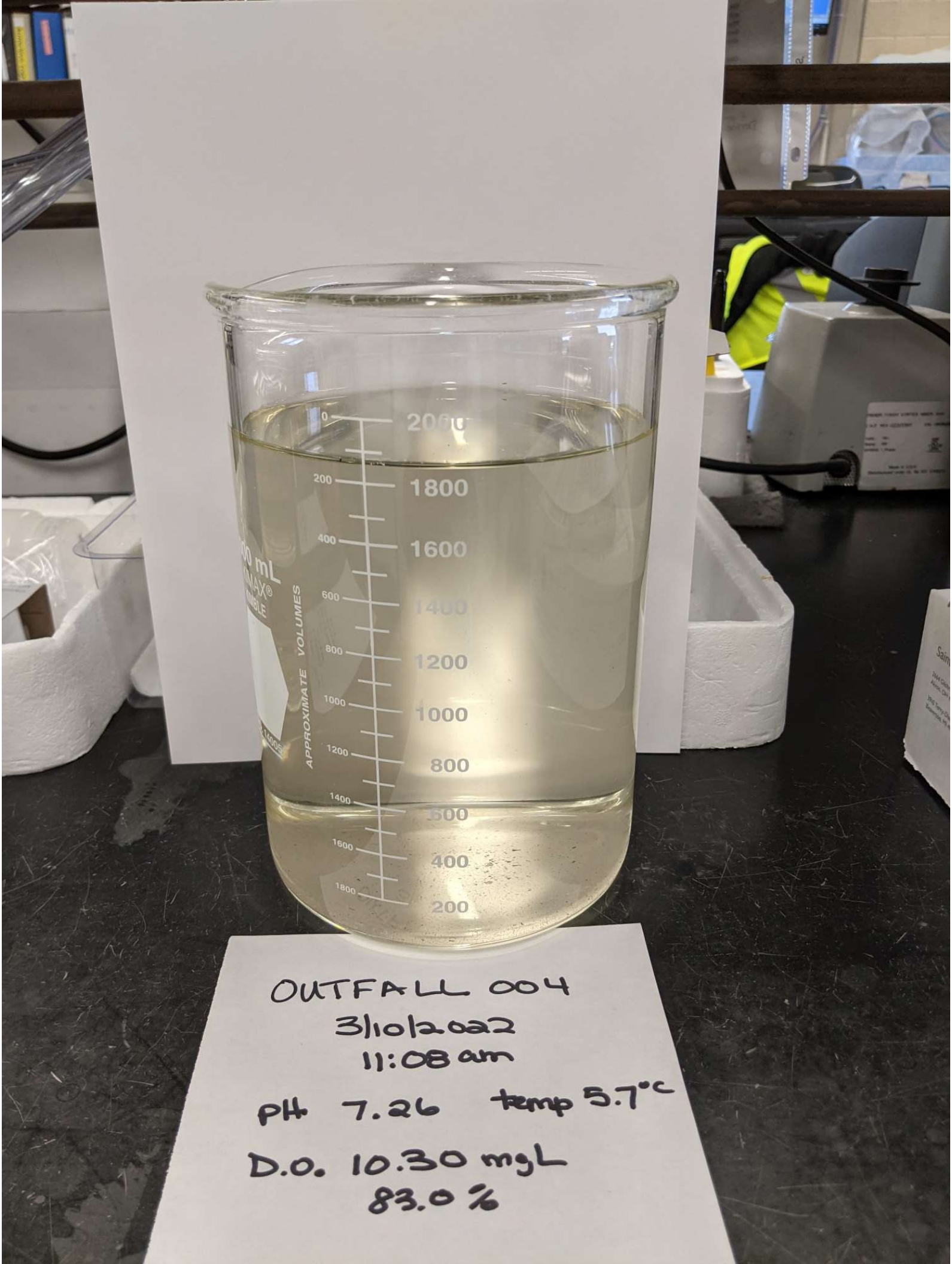
Sampling Date: Thursday, March 10, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.14	3/15/2022		DP	mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	7.3	3/10/2022		DP	SU	150.2	UB
Dissolved Oxygen	10.3	3/10/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	83.0	3/10/2022		DP	% sat	360.1	UB
Temperature	5.7	3/10/2022		DP	deg. C	SM 2550	UB
TSS	7.9	3/11/2022	3/12/2022	SK/AC	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	51.0	3/15/2022		DP	mg/L	8000	UB


pH 7.26 temp 5.7°C
DO 10.30 mg/L


OUTFALL 004
3/10/2022
11:08 am
pH 7.26 temp 5.7°C
D.O. 10.30 mgL
83.0 %

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 6/9/22 0622am	**Date & Time Sample Collected: 6/9/22 0645am**	**Date & Time Sample Examined: 6/9/22 0810am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.47"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): Last storm was early morning on 6/8 and was only approximately .52".**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 7/4 Pale Yellow**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☒ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Pollen**		
Settled Solids**	**No ☐ Yes ☒ (describe): Seed Pods**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☐ Yes ☐ (explain):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☐ (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed July 21, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

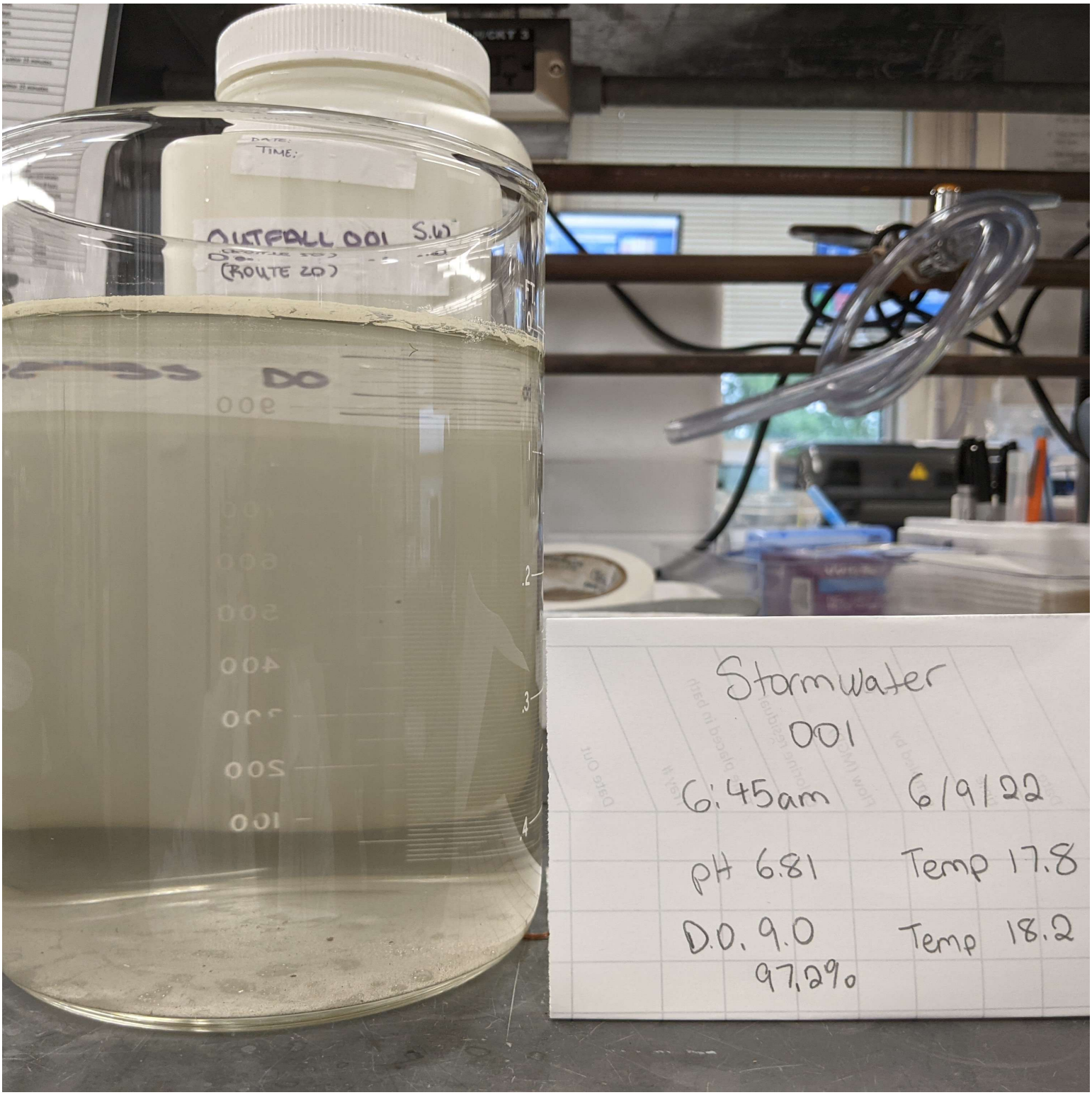
Outfall 1 Treatment Sector T

Sampling Date: Thursday, June 9, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	6.8	6/9/2022		SK & DP	SU	150.2	UB
Dissolved Oxygen	9.0	6/9/2022		SK & DP	mg/L	360.1	UB
Dissolved Oxygen	97.2	6/9/2022		SK & DP	%	360.1	UB
Temperature	18.0	6/9/2022		SK & DP	deg C	SM 2550	UB
TSS	16.3	6/9/2022	6/10/2022	OD	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	39.0	6/9/2022		AC	mg/L	8000	UB


DATE:
TIME:
OUTFALL 001 S.W
(ROUTE 20)
DO
Stormwater
001
6:45am
6/9/22
pH 6.81
Temp 17.8
D.O. 9.0
97.2%
Temp 18.2

KIMAX
2000 mL

Daily Observations for Worcester Airport, June 09, 2022

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	63 °F	51 °F	65 %	CALM	0 mph	0 mph	28.79 in	0.0 in	Fair
1:54 AM	67 °F	49 °F	52 %	SE	3 mph	0 mph	28.78 in	0.0 in	Fair
2:54 AM	67 °F	49 °F	52 %	SE	6 mph	0 mph	28.76 in	0.0 in	Partly Cloudy
3:54 AM	65 °F	51 °F	61 %	E	3 mph	0 mph	28.73 in	0.0 in	Fair
4:54 AM	63 °F	52 °F	67 %	ENE	5 mph	0 mph	28.71 in	0.0 in	Partly Cloudy
5:54 AM	62 °F	54 °F	75 %	E	6 mph	0 mph	28.66 in	0.0 in	Light Rain
6:22 AM	60 °F	55 °F	83 %	E	7 mph	0 mph	28.67 in	0.1 in	Heavy Rain
6:30 AM	60 °F	56 °F	86 %	E	6 mph	0 mph	28.67 in	0.2 in	Heavy Rain
6:42 AM	59 °F	57 °F	93 %	E	8 mph	0 mph	28.65 in	0.3 in	Heavy Rain
6:54 AM	59 °F	57 °F	93 %	NE	7 mph	0 mph	28.63 in	0.3 in	Rain
7:08 AM	59 °F	57 °F	93 %	E	9 mph	0 mph	28.63 in	0.1 in	Heavy Rain
7:37 AM	58 °F	58 °F	100 %	ENE	12 mph	0 mph	28.61 in	0.4 in	Heavy Rain
7:54 AM	58 °F	58 °F	100 %	ENE	10 mph	0 mph	28.60 in	0.6 in	Heavy Rain
8:19 AM	59 °F	58 °F	96 %	ENE	10 mph	0 mph	28.55 in	0.2 in	Heavy Rain
8:54 AM	60 °F	59 °F	96 %	E	7 mph	0 mph	28.52 in	0.6 in	Heavy Rain
9:04 AM	61 °F	60 °F	97 %	SE	17 mph	23 mph	28.52 in	0.1 in	Light Rain
9:15 AM	62 °F	62 °F	100 %	S	9 mph	22 mph	28.52 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
9:30 AM	64 °F	63 °F	96 %	S	7 mph	0 mph	28.52 in	0.1 in	Fog
9:49 AM	66 °F	64 °F	94 %	SSW	13 mph	0 mph	28.52 in	0.1 in	Cloudy
9:54 AM	66 °F	65 °F	96 %	SSW	15 mph	0 mph	28.52 in	0.1 in	Cloudy
10:54 AM	70 °F	67 °F	90 %	SSW	15 mph	0 mph	28.51 in	0.0 in	Cloudy
11:54 AM	75 °F	66 °F	73 %	SW	18 mph	28 mph	28.49 in	0.0 in	Mostly Cloudy
12:15 PM	75 °F	66 °F	73 %	SW	20 mph	30 mph	28.49 in	0.0 in	Partly Cloudy
12:54 PM	76 °F	62 °F	62 %	WSW	18 mph	31 mph	28.48 in	0.0 in	Mostly Cloudy
1:54 PM	77 °F	59 °F	54 %	W	14 mph	28 mph	28.47 in	0.0 in	Partly Cloudy
2:54 PM	78 °F	60 °F	54 %	WSW	22 mph	0 mph	28.47 in	0.0 in	Fair / Windy
3:54 PM	75 °F	58 °F	55 %	WNW	26 mph	35 mph	28.50 in	0.0 in	Fair / Windy
4:54 PM	73 °F	56 °F	55 %	W	17 mph	26 mph	28.52 in	0.0 in	Fair
5:54 PM	73 °F	55 °F	53 %	WNW	13 mph	0 mph	28.54 in	0.0 in	Partly Cloudy
6:54 PM	69 °F	55 °F	61 %	WNW	14 mph	25 mph	28.57 in	0.0 in	Mostly Cloudy
7:54 PM	68 °F	56 °F	65 %	WNW	7 mph	0 mph	28.59 in	0.0 in	Fair
8:54 PM	65 °F	55 °F	70 %	W	12 mph	0 mph	28.62 in	0.0 in	Fair
9:54 PM	64 °F	50 °F	60 %	WNW	15 mph	26 mph	28.64 in	0.0 in	Light Rain
10:54 PM	61 °F	51 °F	70 %	W	13 mph	23 mph	28.65 in	0.0 in	Light Rain
11:54 PM	59 °F	51 °F	75 %	W	12 mph	0 mph	28.66 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 6/9/22 0622am	**Date & Time Sample Collected: 6/9/22 0704am**	**Date & Time Sample Examined: 6/9/22 0810am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.47"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): Last storm was early morning on 6/8 and was only approximately .52".**		
Parameter			
Color	**None ☐ Other ☒ (describe): 10YR 7/6 Yellow**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☒ (describe): Small Particles**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☒ (describe): Small bubbles that dissipate quickly.**		
Other Obvious Indicators of Storm Water Pollution	**No ☒**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☐ Yes ☐ (explain):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☐ (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed July 21, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

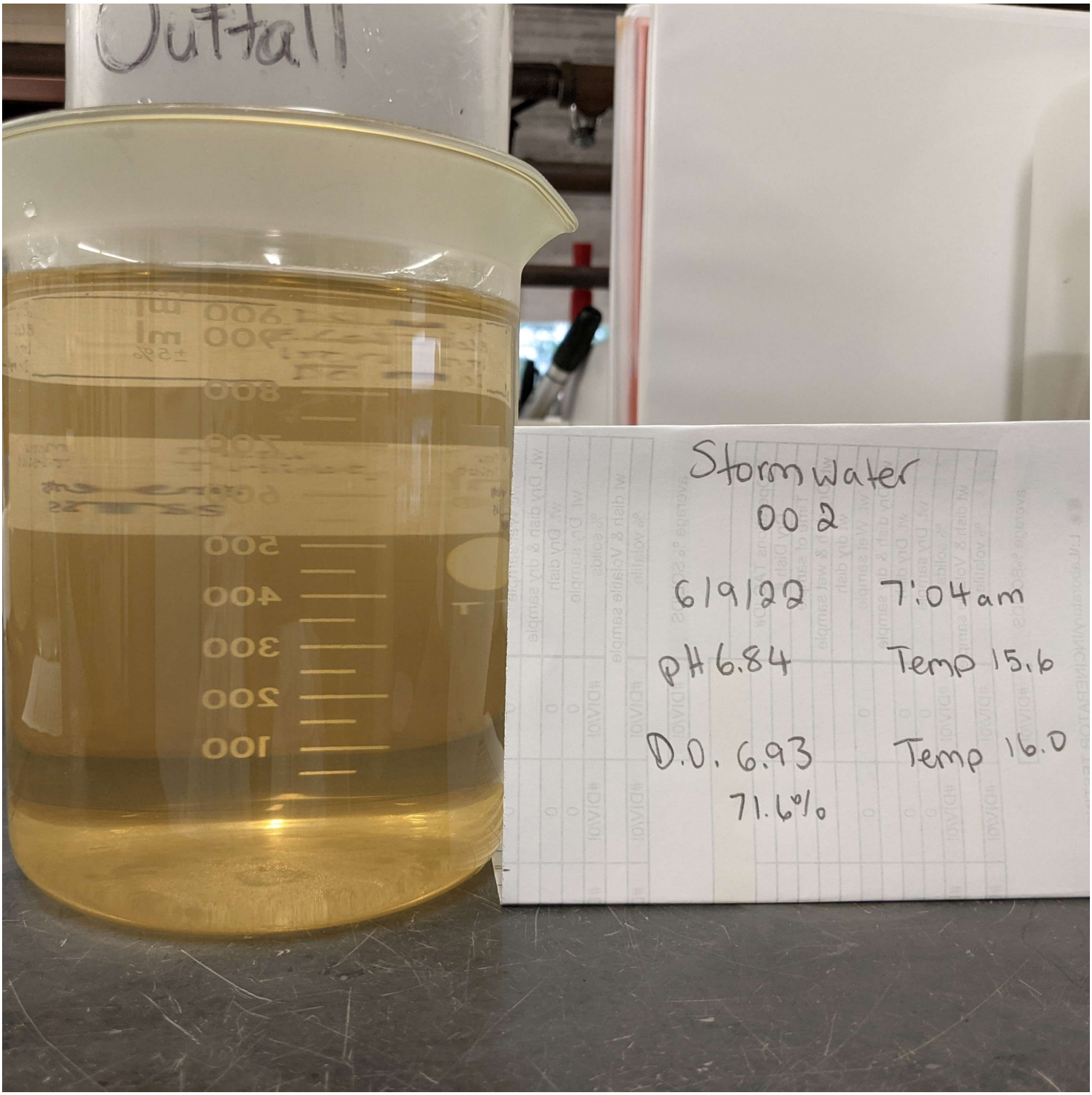
Outfall 2 Treatment Sector T

Sampling Date: Thursday, June 9, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.8	6/9/2022		SK & DP	SU	150.2	UB
Dissolved Oxygen	6.9	6/9/2022		SK & DP	mg/L	360.1	UB
Dissolved Oxygen	71.6	6/9/2022		SK & DP	%	360.1	UB
Temperature	15.8	6/9/2022		SK & DP	deg. C	SM 2550	UB
TSS	14.1	6/9/2022	6/10/2022	OD	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	54.0	6/9/2022		AC	mg/L	8000	UB


Outfall
Stormwater
002
6/9/22 7:04am
pH 6.84 Temp 15.6
D.O. 6.93 Temp 16.0
71.6%

900 ml
800
700
600
500
400
300
200
100
1000 ml

Daily Observations for Worcester Airport, June 09, 2022

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	63 °F	51 °F	65 %	CALM	0 mph	0 mph	28.79 in	0.0 in	Fair
1:54 AM	67 °F	49 °F	52 %	SE	3 mph	0 mph	28.78 in	0.0 in	Fair
2:54 AM	67 °F	49 °F	52 %	SE	6 mph	0 mph	28.76 in	0.0 in	Partly Cloudy
3:54 AM	65 °F	51 °F	61 %	E	3 mph	0 mph	28.73 in	0.0 in	Fair
4:54 AM	63 °F	52 °F	67 %	ENE	5 mph	0 mph	28.71 in	0.0 in	Partly Cloudy
5:54 AM	62 °F	54 °F	75 %	E	6 mph	0 mph	28.66 in	0.0 in	Light Rain
6:22 AM	60 °F	55 °F	83 %	E	7 mph	0 mph	28.67 in	0.1 in	Heavy Rain
6:30 AM	60 °F	56 °F	86 %	E	6 mph	0 mph	28.67 in	0.2 in	Heavy Rain
6:42 AM	59 °F	57 °F	93 %	E	8 mph	0 mph	28.65 in	0.3 in	Heavy Rain
6:54 AM	59 °F	57 °F	93 %	NE	7 mph	0 mph	28.63 in	0.3 in	Rain
7:08 AM	59 °F	57 °F	93 %	E	9 mph	0 mph	28.63 in	0.1 in	Heavy Rain
7:37 AM	58 °F	58 °F	100 %	ENE	12 mph	0 mph	28.61 in	0.4 in	Heavy Rain
7:54 AM	58 °F	58 °F	100 %	ENE	10 mph	0 mph	28.60 in	0.6 in	Heavy Rain
8:19 AM	59 °F	58 °F	96 %	ENE	10 mph	0 mph	28.55 in	0.2 in	Heavy Rain
8:54 AM	60 °F	59 °F	96 %	E	7 mph	0 mph	28.52 in	0.6 in	Heavy Rain
9:04 AM	61 °F	60 °F	97 %	SE	17 mph	23 mph	28.52 in	0.1 in	Light Rain
9:15 AM	62 °F	62 °F	100 %	S	9 mph	22 mph	28.52 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
9:30 AM	64 °F	63 °F	96 %	S	7 mph	0 mph	28.52 in	0.1 in	Fog
9:49 AM	66 °F	64 °F	94 %	SSW	13 mph	0 mph	28.52 in	0.1 in	Cloudy
9:54 AM	66 °F	65 °F	96 %	SSW	15 mph	0 mph	28.52 in	0.1 in	Cloudy
10:54 AM	70 °F	67 °F	90 %	SSW	15 mph	0 mph	28.51 in	0.0 in	Cloudy
11:54 AM	75 °F	66 °F	73 %	SW	18 mph	28 mph	28.49 in	0.0 in	Mostly Cloudy
12:15 PM	75 °F	66 °F	73 %	SW	20 mph	30 mph	28.49 in	0.0 in	Partly Cloudy
12:54 PM	76 °F	62 °F	62 %	WSW	18 mph	31 mph	28.48 in	0.0 in	Mostly Cloudy
1:54 PM	77 °F	59 °F	54 %	W	14 mph	28 mph	28.47 in	0.0 in	Partly Cloudy
2:54 PM	78 °F	60 °F	54 %	WSW	22 mph	0 mph	28.47 in	0.0 in	Fair / Windy
3:54 PM	75 °F	58 °F	55 %	WNW	26 mph	35 mph	28.50 in	0.0 in	Fair / Windy
4:54 PM	73 °F	56 °F	55 %	W	17 mph	26 mph	28.52 in	0.0 in	Fair
5:54 PM	73 °F	55 °F	53 %	WNW	13 mph	0 mph	28.54 in	0.0 in	Partly Cloudy
6:54 PM	69 °F	55 °F	61 %	WNW	14 mph	25 mph	28.57 in	0.0 in	Mostly Cloudy
7:54 PM	68 °F	56 °F	65 %	WNW	7 mph	0 mph	28.59 in	0.0 in	Fair
8:54 PM	65 °F	55 °F	70 %	W	12 mph	0 mph	28.62 in	0.0 in	Fair
9:54 PM	64 °F	50 °F	60 %	WNW	15 mph	26 mph	28.64 in	0.0 in	Light Rain
10:54 PM	61 °F	51 °F	70 %	W	13 mph	23 mph	28.65 in	0.0 in	Light Rain
11:54 PM	59 °F	51 °F	75 %	W	12 mph	0 mph	28.66 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Sophia Kostoulas / Lab Tech and Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 6/9/22 0622am	**Date & Time Sample Collected: 6/9/22 0734am**	**Date & Time Sample Examined: 6/9/22 0810am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.47"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): Last storm was early morning on 6/8 and was only approximately .52".**		
Parameter			
Color	**None ☐ Other ☒ (describe): 7/4 2.5Y Pale Brown**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☒ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Pollen**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☒ (describe): Large bubbles that dissipated quickly.**		
Other Obvious Indicators of Storm Water Pollution	**No ☒**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☐ Yes ☐ (explain):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☐ (explain):

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed July 21, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

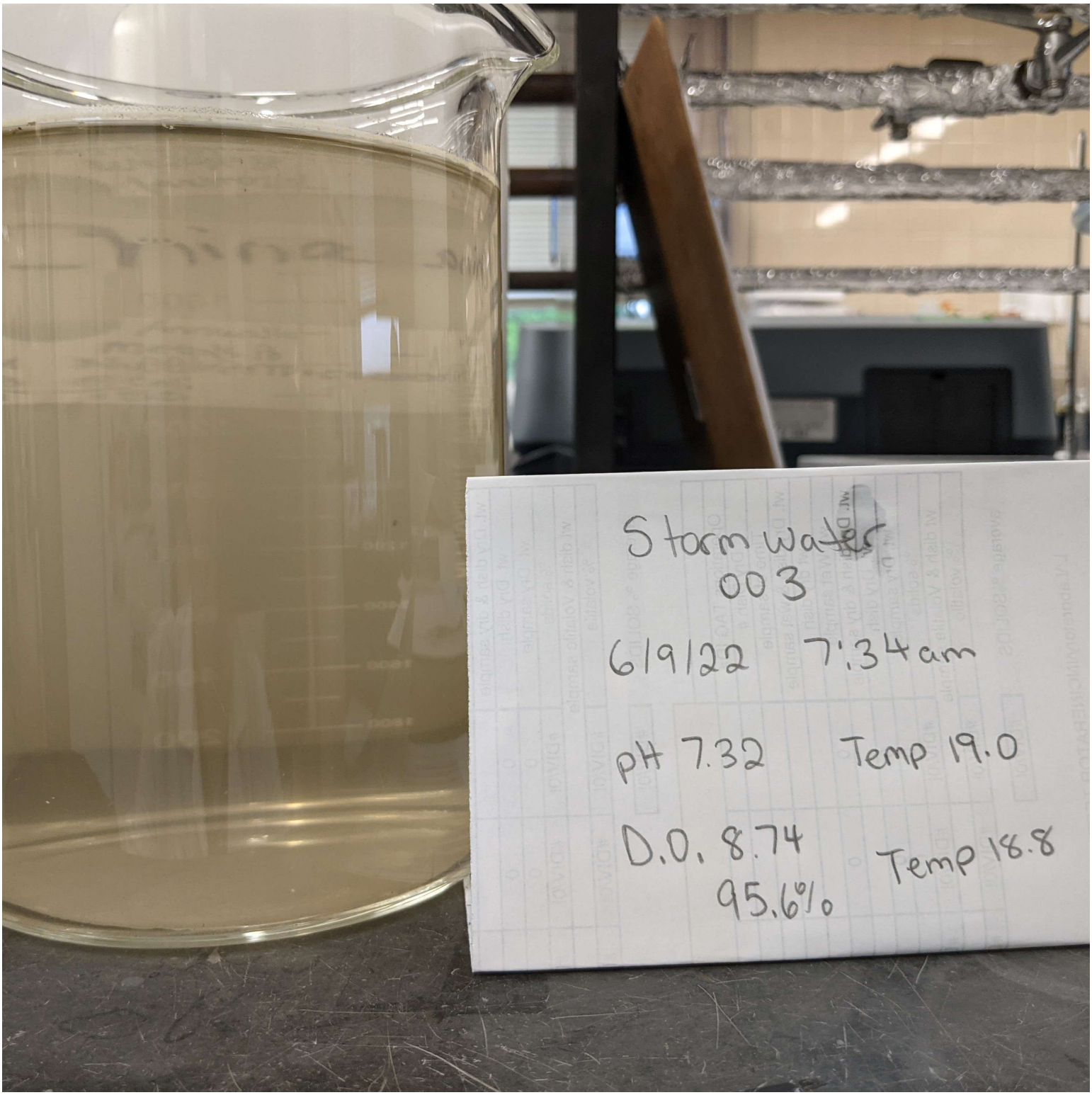
Outfall 3 Treatment Sector T

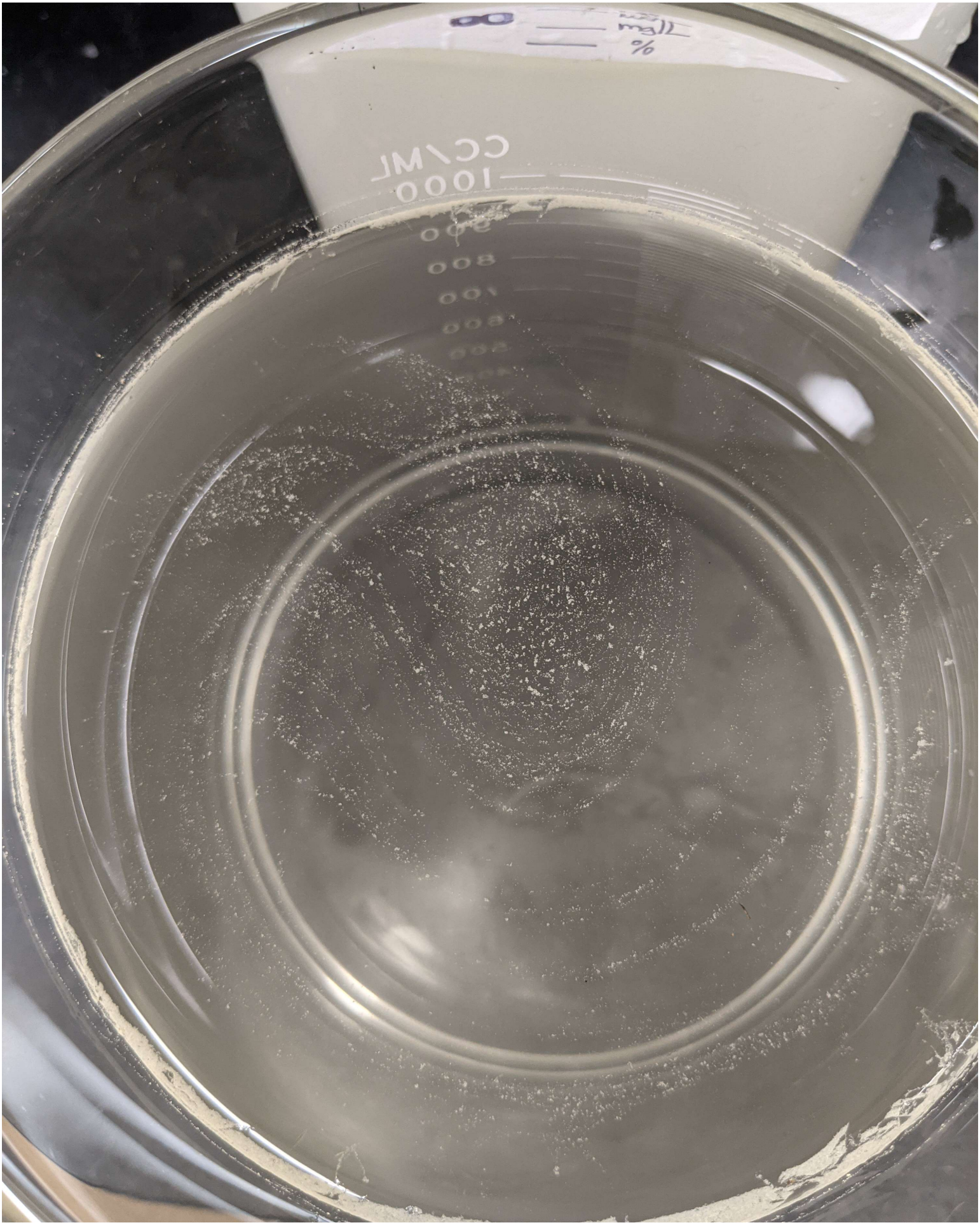
Sampling Date: Thursday, June 9, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	7.3	6/9/2022		SK & DP	SU	150.2	UB
Dissolved Oxygen	8.7	6/9/2022		SK & DP	mg/L	360.1	UB
Dissolved Oxygen	95.6	6/9/2022		SK & DP	%	360.1	UB
Temperature	18.9	6/9/2022		SK & DP	deg. C	SM 2550	UB
TSS	14	6/9/2022	6/10/2022	OD	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	27.0	6/9/2022		AC	mg/L	8000	UB


Storm water
003
6/9/22 7:34am
pH 7.32 Temp 19.0
D.O. 8.74
95.6%
Temp 18.8



Daily Observations for Worcester Airport, June 09, 2022

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	63 °F	51 °F	65 %	CALM	0 mph	0 mph	28.79 in	0.0 in	Fair
1:54 AM	67 °F	49 °F	52 %	SE	3 mph	0 mph	28.78 in	0.0 in	Fair
2:54 AM	67 °F	49 °F	52 %	SE	6 mph	0 mph	28.76 in	0.0 in	Partly Cloudy
3:54 AM	65 °F	51 °F	61 %	E	3 mph	0 mph	28.73 in	0.0 in	Fair
4:54 AM	63 °F	52 °F	67 %	ENE	5 mph	0 mph	28.71 in	0.0 in	Partly Cloudy
5:54 AM	62 °F	54 °F	75 %	E	6 mph	0 mph	28.66 in	0.0 in	Light Rain
6:22 AM	60 °F	55 °F	83 %	E	7 mph	0 mph	28.67 in	0.1 in	Heavy Rain
6:30 AM	60 °F	56 °F	86 %	E	6 mph	0 mph	28.67 in	0.2 in	Heavy Rain
6:42 AM	59 °F	57 °F	93 %	E	8 mph	0 mph	28.65 in	0.3 in	Heavy Rain
6:54 AM	59 °F	57 °F	93 %	NE	7 mph	0 mph	28.63 in	0.3 in	Rain
7:08 AM	59 °F	57 °F	93 %	E	9 mph	0 mph	28.63 in	0.1 in	Heavy Rain
7:37 AM	58 °F	58 °F	100 %	ENE	12 mph	0 mph	28.61 in	0.4 in	Heavy Rain
7:54 AM	58 °F	58 °F	100 %	ENE	10 mph	0 mph	28.60 in	0.6 in	Heavy Rain
8:19 AM	59 °F	58 °F	96 %	ENE	10 mph	0 mph	28.55 in	0.2 in	Heavy Rain
8:54 AM	60 °F	59 °F	96 %	E	7 mph	0 mph	28.52 in	0.6 in	Heavy Rain
9:04 AM	61 °F	60 °F	97 %	SE	17 mph	23 mph	28.52 in	0.1 in	Light Rain
9:15 AM	62 °F	62 °F	100 %	S	9 mph	22 mph	28.52 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
9:30 AM	64 °F	63 °F	96 %	S	7 mph	0 mph	28.52 in	0.1 in	Fog
9:49 AM	66 °F	64 °F	94 %	SSW	13 mph	0 mph	28.52 in	0.1 in	Cloudy
9:54 AM	66 °F	65 °F	96 %	SSW	15 mph	0 mph	28.52 in	0.1 in	Cloudy
10:54 AM	70 °F	67 °F	90 %	SSW	15 mph	0 mph	28.51 in	0.0 in	Cloudy
11:54 AM	75 °F	66 °F	73 %	SW	18 mph	28 mph	28.49 in	0.0 in	Mostly Cloudy
12:15 PM	75 °F	66 °F	73 %	SW	20 mph	30 mph	28.49 in	0.0 in	Partly Cloudy
12:54 PM	76 °F	62 °F	62 %	WSW	18 mph	31 mph	28.48 in	0.0 in	Mostly Cloudy
1:54 PM	77 °F	59 °F	54 %	W	14 mph	28 mph	28.47 in	0.0 in	Partly Cloudy
2:54 PM	78 °F	60 °F	54 %	WSW	22 mph	0 mph	28.47 in	0.0 in	Fair / Windy
3:54 PM	75 °F	58 °F	55 %	WNW	26 mph	35 mph	28.50 in	0.0 in	Fair / Windy
4:54 PM	73 °F	56 °F	55 %	W	17 mph	26 mph	28.52 in	0.0 in	Fair
5:54 PM	73 °F	55 °F	53 %	WNW	13 mph	0 mph	28.54 in	0.0 in	Partly Cloudy
6:54 PM	69 °F	55 °F	61 %	WNW	14 mph	25 mph	28.57 in	0.0 in	Mostly Cloudy
7:54 PM	68 °F	56 °F	65 %	WNW	7 mph	0 mph	28.59 in	0.0 in	Fair
8:54 PM	65 °F	55 °F	70 %	W	12 mph	0 mph	28.62 in	0.0 in	Fair
9:54 PM	64 °F	50 °F	60 %	WNW	15 mph	26 mph	28.64 in	0.0 in	Light Rain
10:54 PM	61 °F	51 °F	70 %	W	13 mph	23 mph	28.65 in	0.0 in	Light Rain
11:54 PM	59 °F	51 °F	75 %	W	12 mph	0 mph	28.66 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain):

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☒ (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)
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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed July 21, 2022

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Ornela Piluri / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 9/22/22 0825am	**Date & Time Sample Collected: 9/22/22 0950am**	**Date & Time Sample Examined: 9/22/22 1020am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.02"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): Last storm was on 9/20 and was only approximately .20". Note: The sample was taken after the 30 minute time interval, because of lighting in the area, to satisfy the quarterly testing requirements.**		
Parameter			
Color	**None ☐ Other ☒ (describe): 10 YR 8/1**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐
(explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed October 25, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

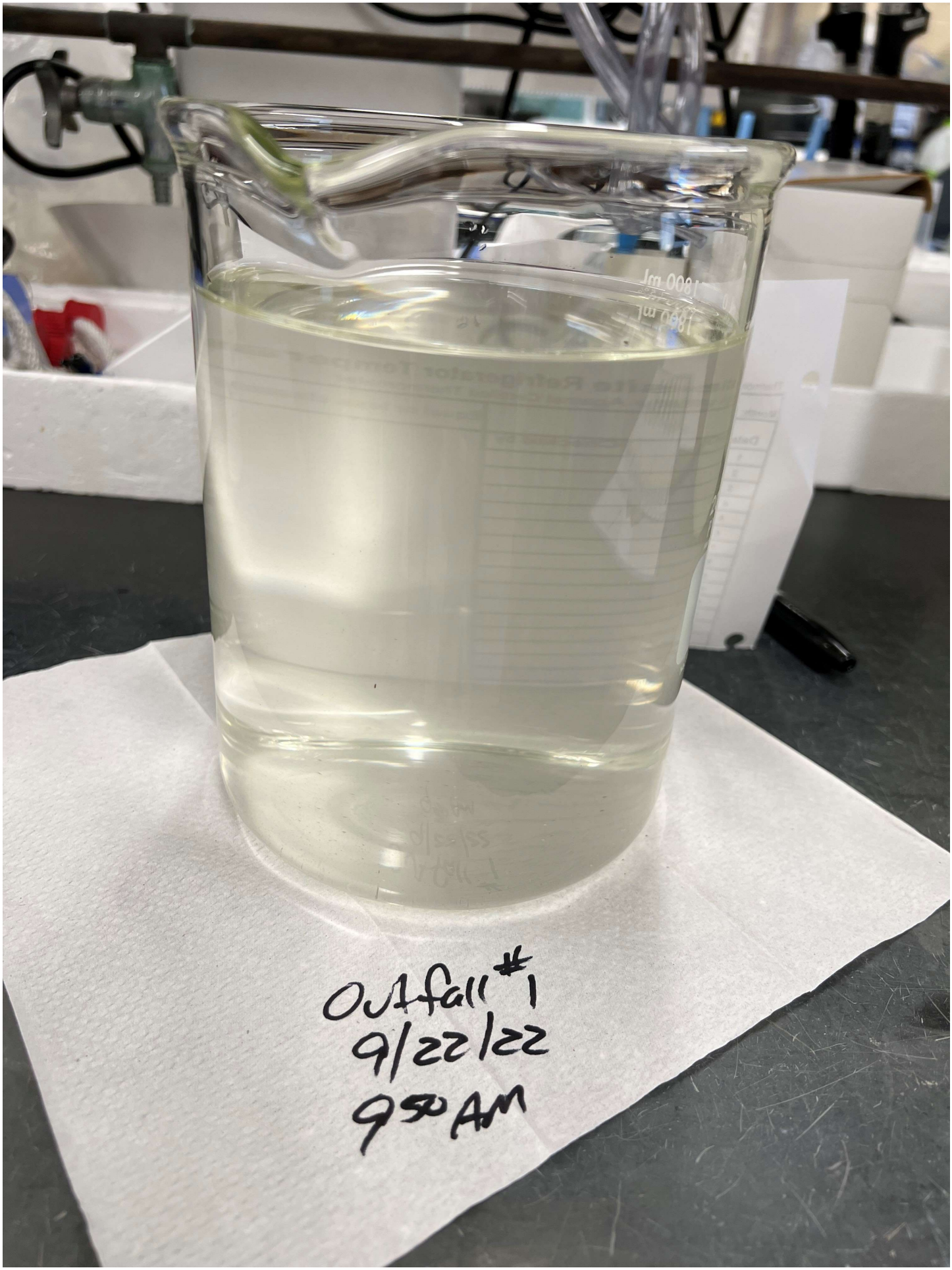
Outfall 1 Treatment Sector T

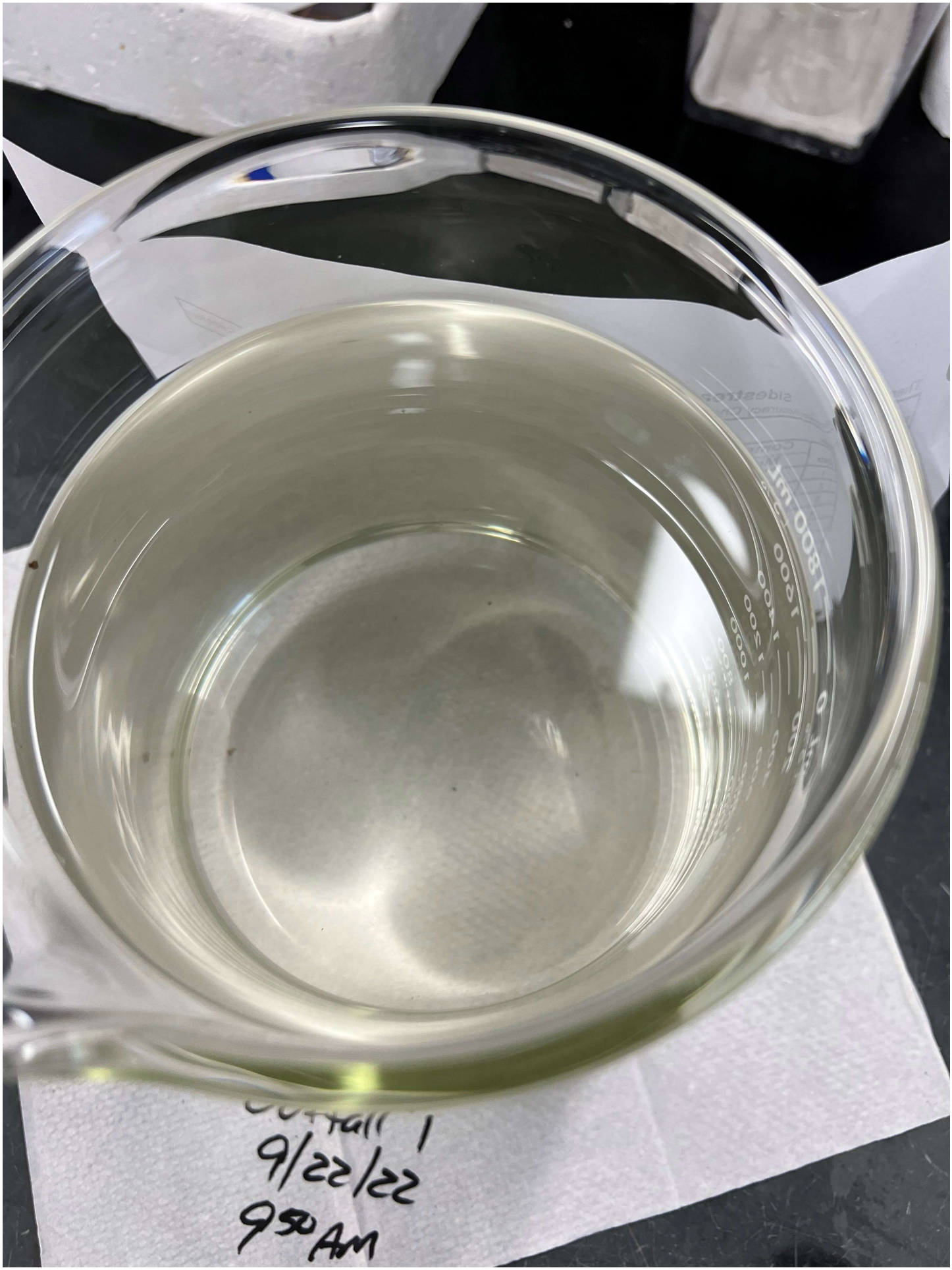
Sampling Date: Thursday, September 22, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.0016	10/04/2022		Alpha	mg/L	200.8	Alpha
T. Phosphorus	0.10	9/23/2022		DP	mg/L	365.2	UB
E. coli	1,263.0	9/22/2022	9/23/2022	DP	MPN	Colilert	UB
pH	7.4	9/22/2022		DP/DL	SU	150.2	UB
Dissolved Oxygen	8.8	9/22/2022		DP/DL	mg/L	360.1	UB
Dissolved Oxygen	98.3	9/22/2022		DP/DL	%	360.1	UB
Temperature	19.8	9/22/2022		DP/DL	deg C	SM 2550	UB
TSS	7.5	9/22/2022	9/23/2022	SK	mg/L	160.2	UB
FOG	<4.0	10/06/2022		Alpha	mg/L	1164 A	Alpha
Turbidity	4.5	09/23/2022		Alpha	NTU	180.1	Alpha
COD	18.0	9/23/2022		DP	mg/L	8000	UB


Outfall #1
9/22/22
9:50 AM


9/22/22
9:30 AM

September 22, 2022 Worcester, MA

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	62 °F	61 °F	96 %	SW	20 mph	29 mph	28.71 in	0.0 in	Cloudy
1:54 AM	62 °F	61 °F	96 %	SW	16 mph	0 mph	28.69 in	0.0 in	Cloudy
2:24 AM	63 °F	61 °F	93 %	SW	15 mph	0 mph	28.67 in	0.0 in	Mostly Cloudy
2:34 AM	63 °F	61 °F	93 %	SW	16 mph	0 mph	28.66 in	0.0 in	Mostly Cloudy
2:54 AM	63 °F	62 °F	97 %	SW	14 mph	0 mph	28.65 in	0.0 in	Cloudy
3:27 AM	63 °F	62 °F	97 %	SW	14 mph	0 mph	28.64 in	0.0 in	Partly Cloudy
3:54 AM	63 °F	62 °F	97 %	SW	14 mph	0 mph	28.62 in	0.0 in	Mostly Cloudy
4:09 AM	63 °F	62 °F	97 %	SW	13 mph	0 mph	28.62 in	0.0 in	Partly Cloudy
4:21 AM	64 °F	62 °F	93 %	SW	15 mph	0 mph	28.62 in	0.0 in	Mostly Cloudy
4:28 AM	64 °F	62 °F	93 %	SW	16 mph	0 mph	28.61 in	0.0 in	Partly Cloudy
4:54 AM	64 °F	62 °F	93 %	SW	15 mph	0 mph	28.59 in	0.0 in	Fair
5:54 AM	64 °F	63 °F	96 %	SW	12 mph	0 mph	28.59 in	0.0 in	Partly Cloudy
6:54 AM	65 °F	63 °F	93 %	SW	13 mph	0 mph	28.57 in	0.0 in	Mostly Cloudy
7:40 AM	65 °F	64 °F	97 %	SW	13 mph	0 mph	28.55 in	0.0 in	Mostly Cloudy
7:54 AM	66 °F	64 °F	93 %	SW	13 mph	0 mph	28.54 in	0.0 in	Mostly Cloudy
8:15 AM	66 °F	64 °F	93 %	WSW	15 mph	0 mph	28.56 in	0.0 in	Light Rain with Thunder
8:25 AM	66 °F	64 °F	93 %	WSW	12 mph	0 mph	28.56 in	0.2 in	Heavy T-Storm
8:29 AM	66 °F	64 °F	93 %	WSW	15 mph	22 mph	28.57 in	0.2 in	T-Storm
8:39 AM	65 °F	64 °F	97 %	WSW	13 mph	0 mph	28.56 in	0.3 in	Heavy T-Storm
8:54 AM	66 °F	64 °F	93 %	WSW	20 mph	30 mph	28.57 in	0.4 in	T-Storm
8:58 AM	66 °F	64 °F	93 %	WSW	14 mph	24 mph	28.57 in	0.0 in	T-Storm
9:13 AM	65 °F	64 °F	97 %	WSW	13 mph	0 mph	28.55 in	0.1 in	Rain
9:54 AM	65 °F	64 °F	97 %	SSW	10 mph	0 mph	28.54 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
10:42 AM	65 °F	64 °F	97 %	SSW	8 mph	0 mph	28.50 in	0.0 in	Cloudy
10:54 AM	65 °F	64 °F	97 %	SSW	9 mph	0 mph	28.50 in	0.0 in	Cloudy
11:40 AM	65 °F	64 °F	97 %	SSW	14 mph	0 mph	28.49 in	0.0 in	Light Rain
11:50 AM	64 °F	64 °F	100 %	SW	13 mph	0 mph	28.49 in	0.1 in	Heavy Rain
11:54 AM	65 °F	64 °F	97 %	SW	10 mph	0 mph	28.49 in	0.1 in	Rain
12:10 PM	65 °F	64 °F	97 %	WSW	9 mph	0 mph	28.49 in	0.1 in	Heavy Rain
12:16 PM	65 °F	64 °F	97 %	WSW	9 mph	0 mph	28.49 in	0.2 in	Heavy Rain
12:20 PM	65 °F	64 °F	97 %	W	10 mph	0 mph	28.49 in	0.2 in	Rain
12:54 PM	65 °F	63 °F	93 %	NNW	17 mph	23 mph	28.48 in	0.3 in	Rain
1:02 PM	61 °F	58 °F	90 %	NW	21 mph	32 mph	28.47 in	0.0 in	Rain / Windy
1:10 PM	60 °F	58 °F	93 %	WNW	21 mph	32 mph	28.48 in	0.0 in	Light Rain / Windy
1:20 PM	61 °F	55 °F	82 %	WNW	23 mph	32 mph	28.49 in	0.0 in	Light Rain / Windy
1:54 PM	57 °F	52 °F	83 %	WNW	22 mph	30 mph	28.49 in	0.0 in	Light Rain / Windy
2:54 PM	56 °F	53 °F	90 %	WNW	8 mph	0 mph	28.50 in	0.0 in	Light Rain
3:54 PM	56 °F	54 °F	93 %	W	7 mph	0 mph	28.47 in	0.0 in	Light Rain
4:54 PM	60 °F	55 °F	83 %	W	10 mph	0 mph	28.46 in	0.0 in	Fair
5:54 PM	59 °F	55 °F	87 %	W	10 mph	0 mph	28.48 in	0.0 in	Partly Cloudy
6:54 PM	57 °F	54 °F	89 %	W	8 mph	0 mph	28.50 in	0.0 in	Fair
7:54 PM	57 °F	53 °F	87 %	WNW	9 mph	0 mph	28.52 in	0.0 in	Mostly Cloudy
8:54 PM	56 °F	50 °F	80 %	NW	12 mph	0 mph	28.55 in	0.0 in	Fair
9:54 PM	54 °F	49 °F	83 %	NW	7 mph	0 mph	28.57 in	0.0 in	Fair
10:54 PM	53 °F	48 °F	83 %	NW	14 mph	0 mph	28.59 in	0.0 in	Fair
11:54 PM	51 °F	47 °F	86 %	NW	15 mph	0 mph	28.61 in	0.0 in	Fair

October 04, 2022

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	46 °F	38 °F	73 %	NE	13 mph	20 mph	29.09 in	0.0 in	Mostly Cloudy
1:54 AM	46 °F	38 °F	73 %	NE	8 mph	21 mph	29.09 in	0.0 in	Cloudy
2:54 AM	46 °F	39 °F	76 %	NE	10 mph	0 mph	29.08 in	0.0 in	Mostly Cloudy
3:54 AM	45 °F	40 °F	82 %	NNE	10 mph	0 mph	29.06 in	0.0 in	Partly Cloudy
4:41 AM	45 °F	40 °F	82 %	NNE	10 mph	0 mph	29.06 in	0.0 in	Mostly Cloudy
4:54 AM	45 °F	40 °F	82 %	NE	10 mph	18 mph	29.06 in	0.0 in	Cloudy
5:54 AM	45 °F	40 °F	82 %	NNE	13 mph	18 mph	29.06 in	0.0 in	Cloudy
6:54 AM	45 °F	40 °F	82 %	NE	10 mph	21 mph	29.05 in	0.0 in	Cloudy
7:54 AM	46 °F	41 °F	83 %	NNE	13 mph	21 mph	29.05 in	0.0 in	Cloudy
8:54 AM	47 °F	42 °F	83 %	NE	9 mph	18 mph	29.05 in	0.0 in	Cloudy
9:38 AM	48 °F	42 °F	80 %	NE	9 mph	20 mph	29.06 in	0.0 in	Cloudy
9:54 AM	48 °F	43 °F	83 %	NNE	12 mph	22 mph	29.05 in	0.0 in	Cloudy
10:54 AM	50 °F	44 °F	80 %	NE	16 mph	24 mph	29.05 in	0.0 in	Cloudy
11:54 AM	50 °F	45 °F	83 %	NE	14 mph	22 mph	29.04 in	0.0 in	Cloudy
12:54 PM	51 °F	46 °F	83 %	NE	9 mph	25 mph	29.02 in	0.0 in	Cloudy
1:26 PM	51 °F	47 °F	86 %	NE	12 mph	18 mph	29.01 in	0.0 in	Light Rain
1:54 PM	52 °F	47 °F	83 %	NE	13 mph	24 mph	29.00 in	0.0 in	Cloudy
2:54 PM	53 °F	47 °F	80 %	NE	12 mph	25 mph	28.98 in	0.0 in	Cloudy
3:54 PM	53 °F	47 °F	80 %	NE	14 mph	23 mph	28.97 in	0.0 in	Cloudy
4:49 PM	52 °F	48 °F	88 %	NE	13 mph	21 mph	28.96 in	0.0 in	Cloudy
4:54 PM	52 °F	49 °F	89 %	NNE	14 mph	21 mph	28.96 in	0.0 in	Cloudy
5:54 PM	52 °F	49 °F	89 %	NE	8 mph	20 mph	28.96 in	0.0 in	Cloudy
6:01 PM	52 °F	49 °F	89 %	NNE	14 mph	21 mph	28.96 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 PM	51 °F	50 °F	96 %	NE	10 mph	22 mph	28.97 in	0.0 in	Cloudy
7:35 PM	51 °F	50 °F	96 %	NE	10 mph	22 mph	28.97 in	0.0 in	Light Rain
7:54 PM	51 °F	50 °F	96 %	NE	8 mph	21 mph	28.97 in	0.0 in	Light Rain
8:54 PM	51 °F	50 °F	96 %	NE	10 mph	21 mph	28.96 in	0.1 in	Light Rain
9:54 PM	50 °F	49 °F	96 %	NNE	13 mph	21 mph	28.96 in	0.1 in	Light Rain
10:54 PM	50 °F	49 °F	96 %	NE	12 mph	21 mph	28.95 in	0.0 in	Light Rain
11:54 PM	50 °F	50 °F	100 %	NNE	12 mph	21 mph	28.94 in	0.0 in	Light Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Ornela Piluri / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 9/22/22 0825am	**Date & Time Sample Collected: 9/22/22 1225 pm**	**Date & Time Sample Examined: 9/22/22 1306**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.02"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): Last storm was on 9/20 and was only approximately .20". Note: The sample was taken after the 30 minute time interval, because of lighting in the area, to satisfy the quarterly testing requirements.**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 8/3**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): Thin layer of soil particles covering bottom.**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed October 25, 2022

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

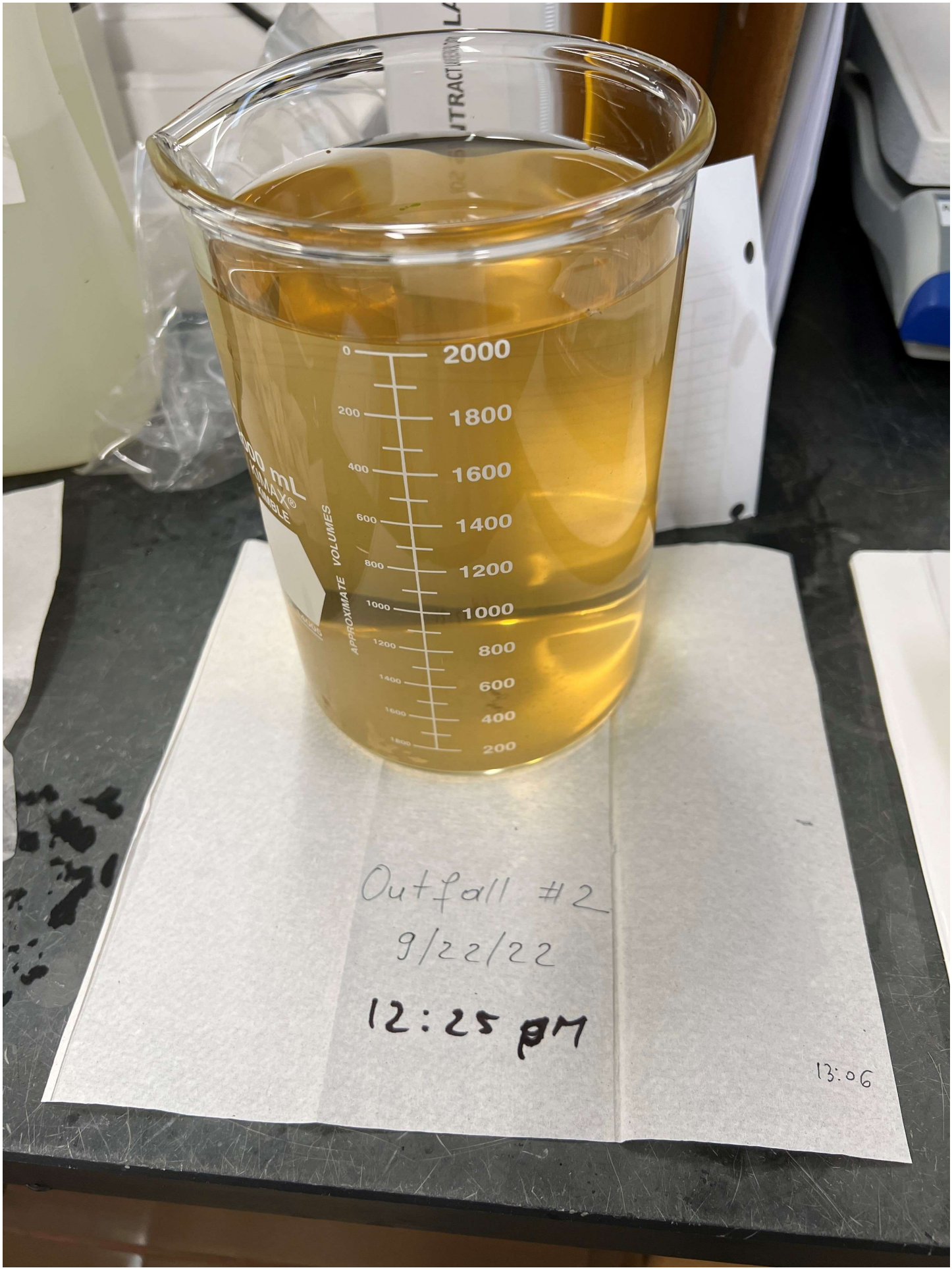
Outfall 2 Treatment Sector T

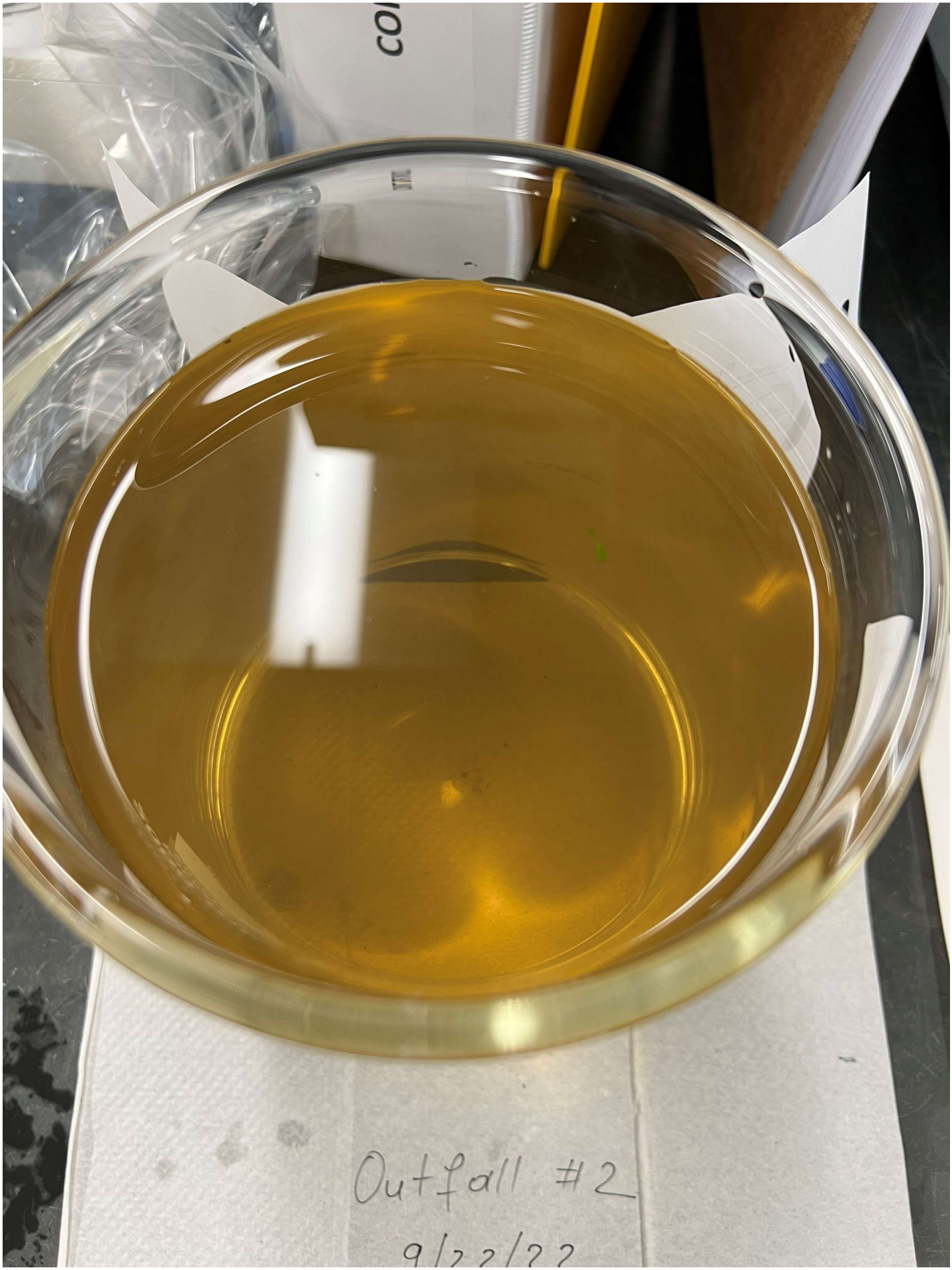
Sampling Date: Thursday, September 22, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.004	10/04/2022		Alpha	mg/L	200.8	Alpha
T. Phosphorus	0.16	9/23/2022		DP	mg/L	365.2	UB
E.coli	2,419.6	9/22/2022	9/23/2022	DP/SK	MPN	Colilert	UB
pH	7.2	9/22/2022		DP/DL	SU	150.2	UB
Dissolved Oxygen	6.3	9/22/2022		DP/DL	mg/L	360.1	UB
Dissolved Oxygen	68.1	9/22/2022		DP/DL	%	360.1	UB
Temperature	18.1	9/22/2022		DP/DL	deg. C	SM 2550	UB
TSS	5.3	9/22/2022	9/23/2022	SK	mg/L	160.2	UB
FOG	<3.6	10/06/2022		Alpha	mg/L	1664 A	Alpha
Turbidity	6.3	9/23/2022		Alpha	NTU	180.1	Alpha
COD	52.0	9/23/2022		DP	mg/L	8000	UB


Outfall #2
9/22/22
12:25 pm
13:06


Outfall #2
9/22/22

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☒
(explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature *Karla H. Sangrey*

D. Date Signed October 25, 2022

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☒
(explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed October 25, 2022

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 10/5/22 0152am	**Date & Time Sample Collected: 10/5/22 0745am**	**Date & Time Sample Examined: 10/5/22 0830am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.06"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 8/1**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed January 26, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

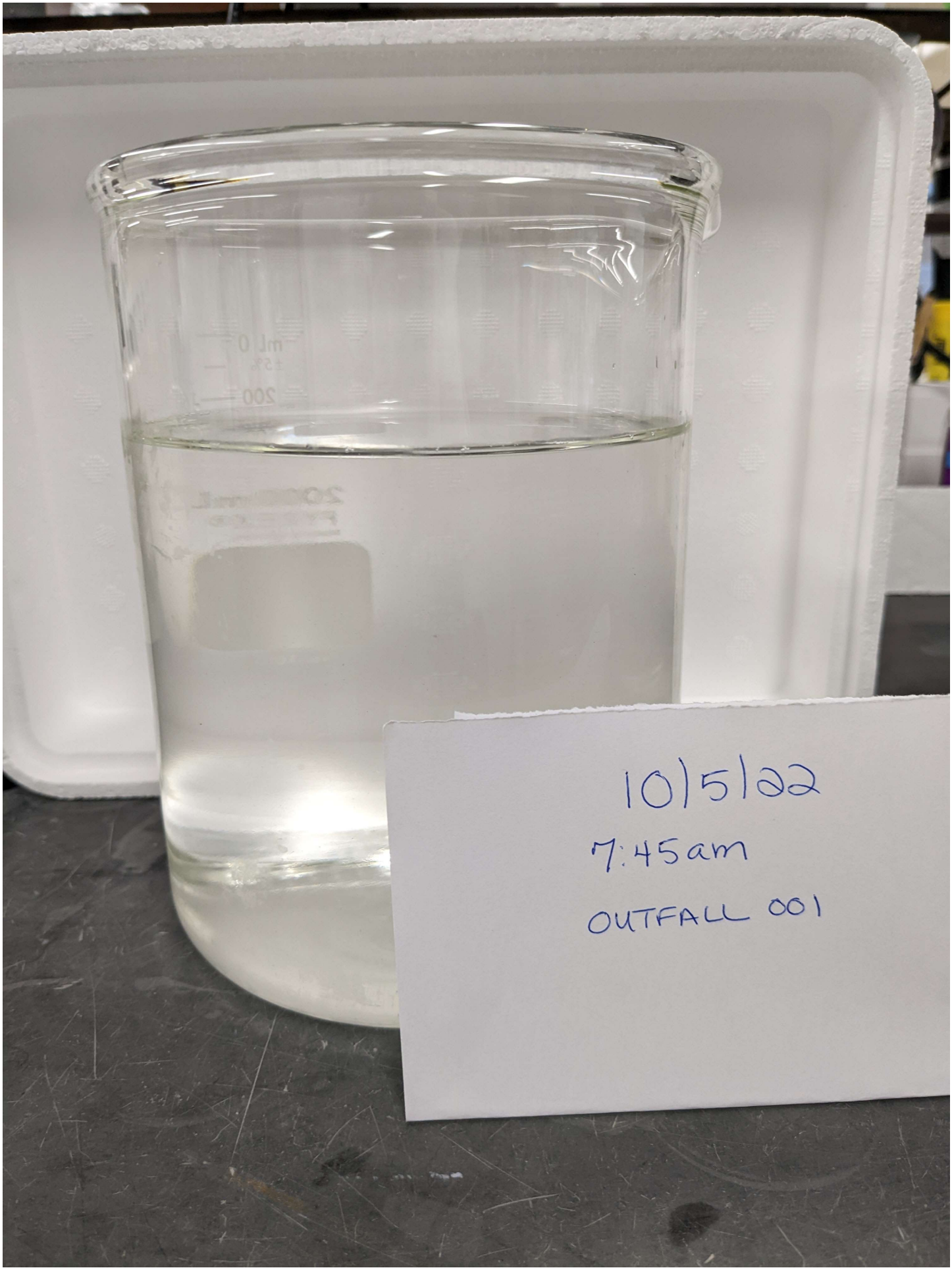
Outfall 1 Treatment Sector T

Sampling Date: Wednesday, October 5, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.05	10/6/2022		DP	mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	6.2	10/5/2022		DP	SU	150.2	UB
Dissolved Oxygen	96.8	10/5/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	0.0	10/5/2022		DP	%	360.1	UB
Temperature	14.8	10/5/2022		DP	deg C	SM 2550	UB
TSS	3.7	10/05/22	10/06/22	SK	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	3.4	10/13/2022		AC	mg/L	8000	UB


10/5/22
7:45am
OUTFALL 001

PYREX
2000 ml
No. 1002

October 05, 2022

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	50 °F	49 °F	96 %	NNE	13 mph	22 mph	28.92 in	0.0 in	Cloudy
1:52 AM	50 °F	50 °F	100 %	NNE	10 mph	21 mph	28.91 in	0.1 in	Light Rain
1:54 AM	50 °F	50 °F	100 %	NNE	12 mph	18 mph	28.91 in	0.1 in	Light Rain
2:54 AM	50 °F	50 °F	100 %	NNE	15 mph	24 mph	28.89 in	0.0 in	Light Rain
3:54 AM	50 °F	50 °F	100 %	NNE	9 mph	24 mph	28.89 in	0.0 in	Light Rain
4:54 AM	50 °F	49 °F	96 %	NE	8 mph	0 mph	28.89 in	0.0 in	Light Rain
5:24 AM	50 °F	49 °F	96 %	NNE	12 mph	20 mph	28.88 in	0.1 in	Rain
5:33 AM	50 °F	49 °F	96 %	NNE	10 mph	20 mph	28.88 in	0.2 in	Light Rain
5:54 AM	50 °F	50 °F	100 %	NE	13 mph	21 mph	28.88 in	0.2 in	Light Rain
6:54 AM	50 °F	50 °F	100 %	NE	9 mph	20 mph	28.89 in	0.2 in	Heavy Rain
7:54 AM	51 °F	50 °F	96 %	NNE	14 mph	23 mph	28.88 in	0.2 in	Light Rain
8:54 AM	51 °F	50 °F	96 %	NNE	14 mph	23 mph	28.87 in	0.0 in	Rain
9:54 AM	51 °F	50 °F	96 %	NNE	12 mph	20 mph	28.90 in	0.0 in	Cloudy
10:54 AM	52 °F	51 °F	97 %	NE	10 mph	21 mph	28.88 in	0.0 in	Light Rain
11:01 AM	52 °F	52 °F	100 %	NNE	13 mph	22 mph	28.88 in	0.0 in	Light Rain
11:34 AM	53 °F	52 °F	96 %	NE	9 mph	20 mph	28.87 in	0.0 in	Light Rain
11:50 AM	54 °F	52 °F	94 %	NE	13 mph	21 mph	28.87 in	0.0 in	Fog
11:54 AM	53 °F	52 °F	96 %	NE	9 mph	18 mph	28.87 in	0.0 in	Fog
12:54 PM	54 °F	54 °F	100 %	NNE	9 mph	20 mph	28.86 in	0.0 in	Fog
1:54 PM	56 °F	55 °F	97 %	NE	12 mph	17 mph	28.83 in	0.0 in	Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:01 PM	56 °F	55 °F	97 %	NNE	14 mph	22 mph	28.83 in	0.0 in	Cloudy
2:54 PM	56 °F	55 °F	97 %	NE	8 mph	16 mph	28.85 in	0.0 in	Cloudy
3:18 PM	56 °F	55 °F	97 %	NE	14 mph	20 mph	28.85 in	0.0 in	Light Rain
3:25 PM	56 °F	55 °F	97 %	NE	10 mph	20 mph	28.84 in	0.0 in	Light Rain
3:54 PM	56 °F	55 °F	97 %	NNE	12 mph	16 mph	28.84 in	0.0 in	Fog
4:54 PM	56 °F	56 °F	100 %	NE	5 mph	0 mph	28.85 in	0.0 in	Light Rain
5:54 PM	56 °F	55 °F	97 %	NNE	8 mph	0 mph	28.85 in	0.0 in	Fog
6:50 PM	55 °F	55 °F	100 %	NNE	8 mph	0 mph	28.86 in	0.0 in	Fog
6:54 PM	56 °F	56 °F	100 %	NNE	8 mph	0 mph	28.86 in	0.0 in	Light Rain
7:09 PM	56 °F	55 °F	97 %	NNE	12 mph	0 mph	28.86 in	0.0 in	Cloudy
7:42 PM	56 °F	56 °F	100 %	NE	7 mph	0 mph	28.86 in	0.1 in	Fog
7:54 PM	56 °F	55 °F	97 %	NE	10 mph	20 mph	28.86 in	0.1 in	Cloudy
8:40 PM	56 °F	55 °F	97 %	NNE	8 mph	0 mph	28.86 in	0.0 in	Fog
8:50 PM	55 °F	55 °F	100 %	NNE	9 mph	20 mph	28.86 in	0.0 in	Cloudy
8:54 PM	56 °F	56 °F	100 %	NNE	12 mph	0 mph	28.86 in	0.0 in	Fog
9:54 PM	57 °F	56 °F	96 %	NE	10 mph	0 mph	28.87 in	0.0 in	Light Rain
10:54 PM	57 °F	56 °F	96 %	ENE	5 mph	0 mph	28.88 in	0.0 in	Rain
11:04 PM	57 °F	56 °F	96 %	E	5 mph	0 mph	28.89 in	0.0 in	Rain
11:54 PM	56 °F	55 °F	97 %	N	13 mph	0 mph	28.86 in	0.1 in	Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 12/7/22 0054am	**Date & Time Sample Collected: 12/7/22 0805am**	**Date & Time Sample Examined: 12/7/22 0900am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 0.89"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5 Y 8/2 (Pale Yellow)**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☒ (describe): Slight Foam**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed January 27, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

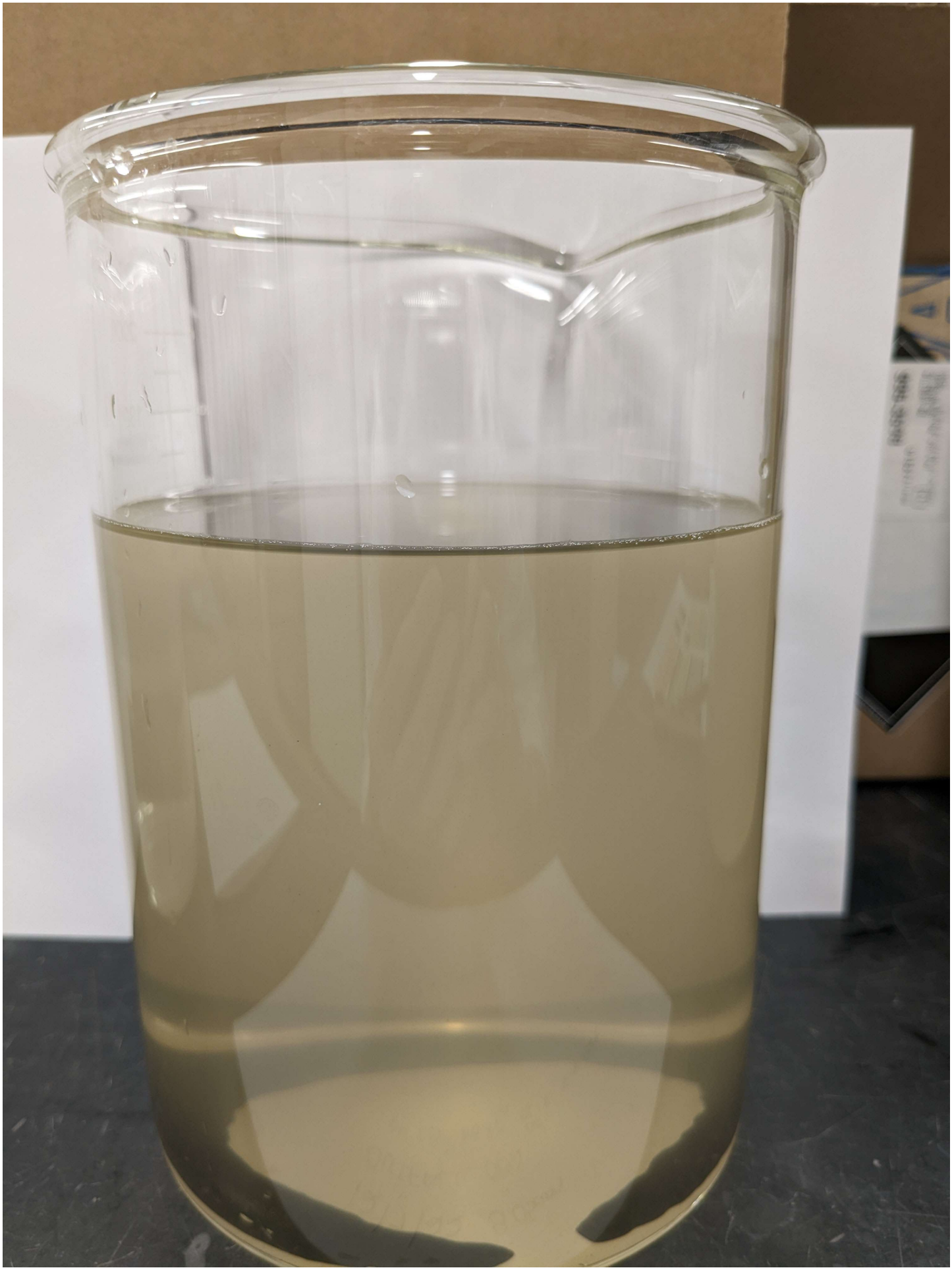
Outfall 2 Treatment Sector T

Sampling Date: Wednesday, December 7, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.29	12/8/2022		AC	mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	7.2	12/7/2022		DP	SU	150.2	UB
Dissolved Oxygen	9.0	12/7/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	86.1	12/7/2022		DP	%	360.1	UB
Temperature	13.4	12/7/2022		DP	deg. C	SM 2550	UB
TSS	18.8	12/08/2022	12/09/2022	SK	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	38.3	12/08/2022		DP	mg/L	8000	UB



mp 13.4°C

12/7/22 8:05am

OUTFALL 002

pH 7.17 D.O. 9.0 mg/L DO 86.1% Temp 13.4°C

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:23 AM	49 °F	46 °F	90 %	ESE	8 mph	0 mph	29.22 in	0.0 in	Light Rain
12:54 AM	49 °F	46 °F	90 %	ESE	12 mph	0 mph	29.21 in	0.1 in	Light Rain
1:40 AM	49 °F	47 °F	93 %	SE	10 mph	0 mph	29.21 in	0.1 in	Rain
1:54 AM	49 °F	47 °F	93 %	SE	8 mph	0 mph	29.21 in	0.2 in	Rain
2:37 AM	49 °F	47 °F	93 %	SE	12 mph	0 mph	29.19 in	0.1 in	Rain
2:44 AM	49 °F	47 °F	93 %	SE	9 mph	0 mph	29.19 in	0.2 in	Light Rain
2:52 AM	48 °F	46 °F	93 %	SE	8 mph	0 mph	29.18 in	0.2 in	Rain
2:54 AM	49 °F	47 °F	93 %	SE	8 mph	0 mph	29.18 in	0.2 in	Rain
3:08 AM	49 °F	47 °F	93 %	ESE	6 mph	0 mph	29.18 in	0.0 in	Rain
3:21 AM	49 °F	47 °F	93 %	ESE	6 mph	0 mph	29.18 in	0.1 in	Rain
3:41 AM	50 °F	47 °F	89 %	SE	7 mph	0 mph	29.18 in	0.1 in	Rain
3:54 AM	50 °F	48 °F	93 %	SE	8 mph	0 mph	29.17 in	0.2 in	Light Rain
4:09 AM	50 °F	48 °F	93 %	ESE	7 mph	0 mph	29.17 in	0.0 in	Light Rain
4:44 AM	50 °F	48 °F	93 %	SE	9 mph	0 mph	29.16 in	0.1 in	Light Rain
4:54 AM	50 °F	48 °F	93 %	SE	12 mph	0 mph	29.16 in	0.1 in	Light Rain
5:36 AM	51 °F	49 °F	92 %	SE	12 mph	0 mph	29.15 in	0.1 in	Light Rain
5:54 AM	51 °F	49 °F	92 %	SE	12 mph	0 mph	29.15 in	0.1 in	Light Rain
6:30 AM	52 °F	49 °F	89 %	SE	12 mph	0 mph	29.14 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:42 AM	52 °F	50 °F	93 %	SSE	10 mph	0 mph	29.14 in	0.1 in	Light Rain
6:51 AM	52 °F	50 °F	94 %	SE	12 mph	0 mph	29.13 in	0.1 in	Rain
6:54 AM	52 °F	50 °F	93 %	SSE	13 mph	0 mph	29.13 in	0.1 in	Rain
7:38 AM	52 °F	50 °F	93 %	SSE	12 mph	0 mph	29.13 in	0.1 in	Rain
7:54 AM	52 °F	50 °F	93 %	SSE	12 mph	0 mph	29.13 in	0.2 in	Light Rain
8:40 AM	53 °F	51 °F	93 %	SE	8 mph	0 mph	29.12 in	0.0 in	Light Rain
8:54 AM	53 °F	51 °F	93 %	SSE	8 mph	0 mph	29.12 in	0.0 in	Fog
9:01 AM	53 °F	51 °F	93 %	SSE	7 mph	0 mph	29.12 in	0.0 in	Fog
9:10 AM	53 °F	52 °F	96 %	S	8 mph	0 mph	29.12 in	0.0 in	Fog
9:30 AM	55 °F	53 °F	93 %	S	10 mph	0 mph	29.11 in	0.0 in	Light Rain
9:54 AM	55 °F	53 °F	93 %	S	12 mph	0 mph	29.12 in	0.0 in	Light Rain
10:30 AM	56 °F	54 °F	93 %	SSW	15 mph	0 mph	29.11 in	0.0 in	Light Rain
10:40 AM	56 °F	54 °F	93 %	S	12 mph	0 mph	29.10 in	0.0 in	Cloudy
10:54 AM	56 °F	54 °F	93 %	S	10 mph	20 mph	29.09 in	0.0 in	Cloudy
11:23 AM	56 °F	54 °F	93 %	S	13 mph	0 mph	29.08 in	0.0 in	Fog
11:33 AM	56 °F	54 °F	93 %	S	15 mph	0 mph	29.07 in	0.0 in	Light Rain
11:49 AM	55 °F	54 °F	94 %	S	13 mph	0 mph	29.07 in	0.0 in	Light Rain
11:54 AM	56 °F	54 °F	93 %	S	9 mph	21 mph	29.06 in	0.0 in	Light Rain
12:05 PM	56 °F	54 °F	93 %	S	12 mph	0 mph	29.06 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:12 PM	57 °F	54 °F	89 %	S	10 mph	0 mph	29.06 in	0.0 in	Fog
12:27 PM	56 °F	54 °F	93 %	SSW	8 mph	0 mph	29.05 in	0.0 in	Fog
12:54 PM	57 °F	55 °F	93 %	S	12 mph	0 mph	29.05 in	0.0 in	Fog
1:34 PM	57 °F	55 °F	93 %	S	12 mph	0 mph	29.03 in	0.0 in	Fog
1:54 PM	57 °F	55 °F	93 %	S	8 mph	0 mph	29.03 in	0.0 in	Fog
2:30 PM	57 °F	55 °F	93 %	SSW	8 mph	0 mph	29.03 in	0.0 in	Light Rain
2:54 PM	57 °F	55 °F	93 %	SW	8 mph	0 mph	29.03 in	0.0 in	Fog
3:00 PM	57 °F	55 °F	93 %	SSW	7 mph	0 mph	29.02 in	0.0 in	Heavy Rain
3:06 PM	57 °F	55 °F	93 %	S	9 mph	0 mph	29.01 in	0.1 in	Rain
3:09 PM	57 °F	55 °F	93 %	S	9 mph	0 mph	29.01 in	0.1 in	Light Rain
3:21 PM	57 °F	55 °F	93 %	S	8 mph	0 mph	29.00 in	0.1 in	Light Rain
3:34 PM	57 °F	55 °F	93 %	S	8 mph	0 mph	29.00 in	0.1 in	Light Rain
3:43 PM	57 °F	55 °F	93 %	SSW	8 mph	0 mph	29.00 in	0.1 in	Fog
3:54 PM	57 °F	55 °F	93 %	SSW	8 mph	0 mph	29.00 in	0.1 in	Fog
4:01 PM	57 °F	55 °F	93 %	S	7 mph	0 mph	28.99 in	0.0 in	Fog
4:08 PM	57 °F	55 °F	93 %	SSW	7 mph	0 mph	28.99 in	0.0 in	Fog
4:16 PM	57 °F	55 °F	93 %	SSW	7 mph	0 mph	28.99 in	0.0 in	Fog
4:54 PM	57 °F	55 °F	93 %	SSW	9 mph	0 mph	28.98 in	0.0 in	Fog
5:01 PM	57 °F	55 °F	93 %	SSW	8 mph	0 mph	28.98 in	0.0 in	Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
5:24 PM	57 °F	55 °F	93 %	SSW	8 mph	0 mph	28.97 in	0.0 in	Fog
5:50 PM	55 °F	54 °F	94 %	SSW	9 mph	0 mph	28.96 in	0.0 in	Fog
5:54 PM	56 °F	55 °F	97 %	SSW	8 mph	0 mph	28.95 in	0.0 in	Fog
6:54 PM	56 °F	54 °F	93 %	SSW	7 mph	0 mph	28.94 in	0.0 in	Fog
7:40 PM	57 °F	54 °F	89 %	WSW	9 mph	0 mph	28.94 in	0.0 in	Fog
7:54 PM	56 °F	54 °F	93 %	WSW	8 mph	0 mph	28.94 in	0.0 in	Fog
8:13 PM	57 °F	54 °F	89 %	WSW	9 mph	0 mph	28.94 in	0.0 in	Fog
8:24 PM	57 °F	55 °F	93 %	WSW	12 mph	0 mph	28.95 in	0.0 in	Fog
8:37 PM	57 °F	55 °F	93 %	W	13 mph	0 mph	28.95 in	0.0 in	Fog
8:49 PM	57 °F	55 °F	94 %	W	13 mph	0 mph	28.95 in	0.0 in	Cloudy
8:50 PM	57 °F	55 °F	93 %	W	10 mph	0 mph	28.95 in	0.0 in	Cloudy
9:15 PM	56 °F	54 °F	93 %	W	8 mph	0 mph	28.95 in	0.0 in	Fog
9:29 PM	56 °F	54 °F	93 %	W	7 mph	0 mph	28.94 in	0.0 in	Cloudy
9:54 PM	56 °F	54 °F	93 %	W	9 mph	0 mph	28.94 in	0.0 in	Cloudy
10:20 PM	56 °F	54 °F	93 %	W	9 mph	0 mph	28.94 in	0.0 in	Cloudy
10:54 PM	57 °F	53 °F	87 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Cloudy
11:06 PM	56 °F	52 °F	87 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Cloudy
11:54 PM	54 °F	50 °F	86 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 12/7/22 0054am	**Date & Time Sample Collected: 12/7/22 0754am**	**Date & Time Sample Examined: 12/7/22 0900am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 0.89"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 8/1 (White)**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed January 27, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

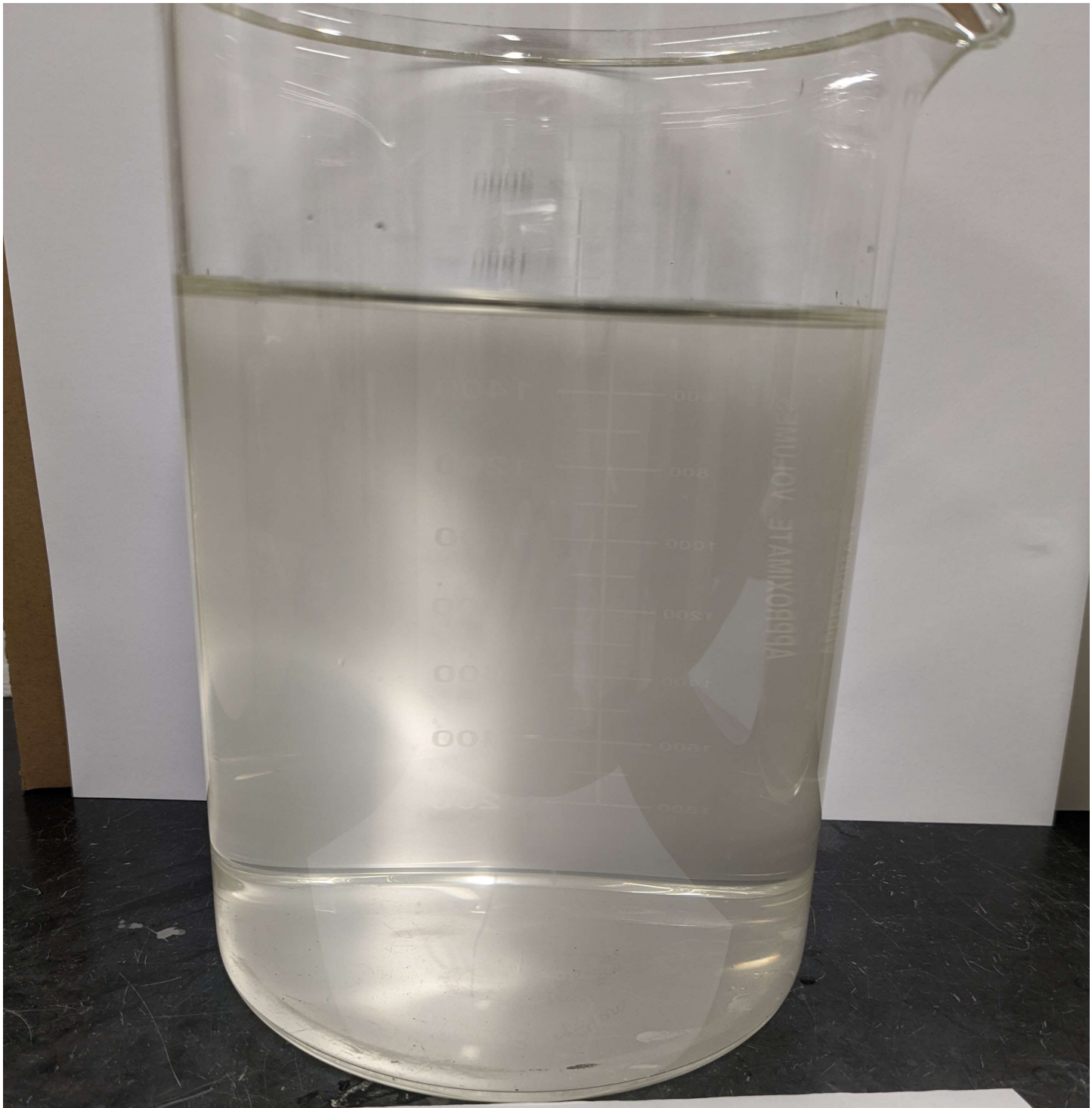
Outfall 3 Treatment Sector T

Sampling Date: Wednesday, December 7, 2022

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

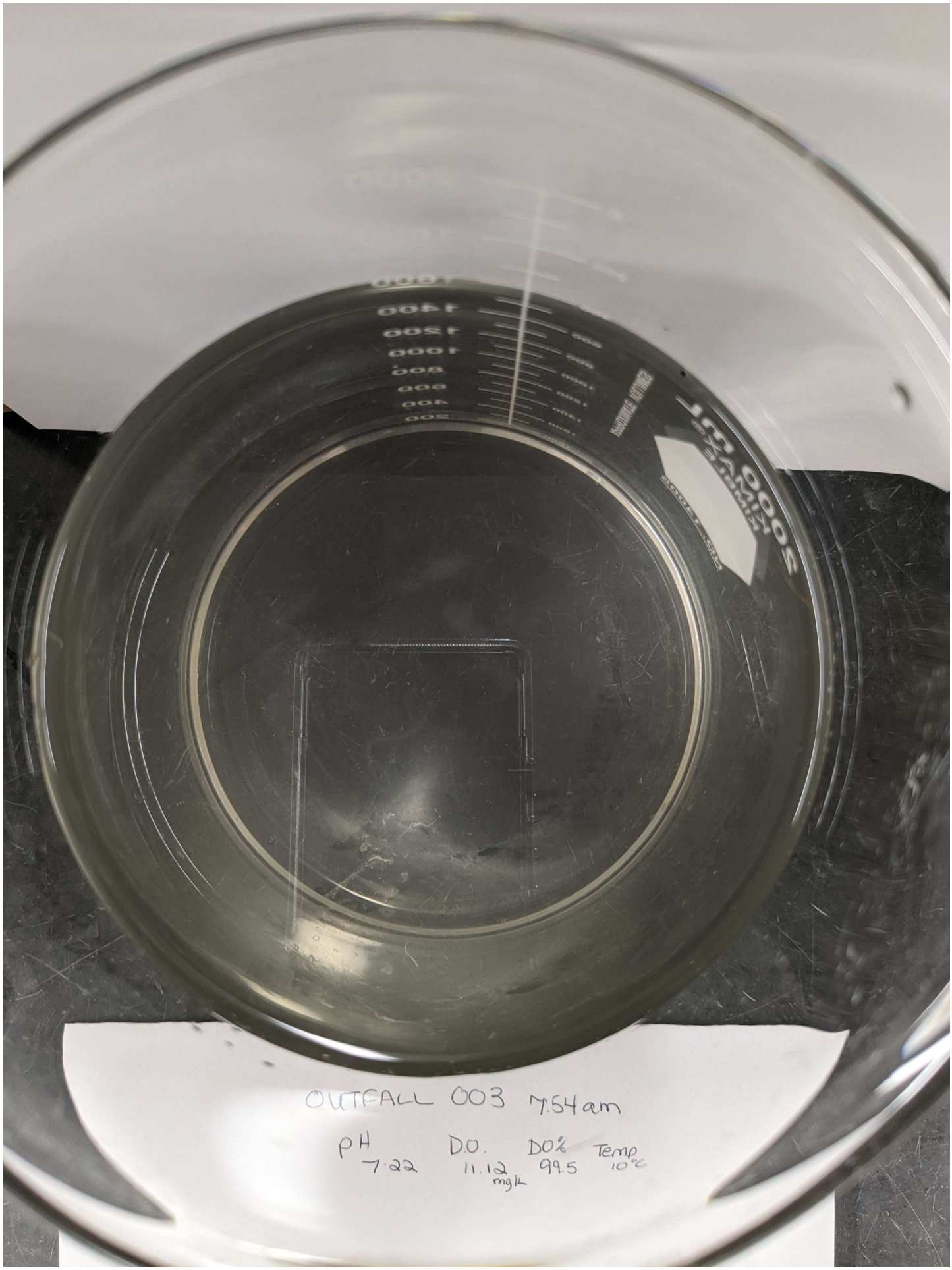
Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	<0.0	12/21/2022		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	0.14	12/08/2022		AC	mg/L	365.2	UB
E. coli	322.0	12/7/2022	12/8/2022	DP	MPN	Colilert	UB
pH	7.2	12/7/2022		DP	SU	150.2	UB
Dissolved Oxygen	11.1	12/7/2022		DP	mg/L	360.1	UB
Dissolved Oxygen	99.5	12/7/2022		DP	%	360.1	UB
Temperature	10.0	12/7/2022		DP	deg. C	SM 2550	UB
TSS	4	12/8/2022	12/09/2022	SK	mg/L	160.2	UB
FOG	<3.6	12/24/2022		ALPHA	mg/L	1664 A	Alpha
Turbidity	6.0	12/07/2022		ALPHA	NTU	180.1	Alpha
COD	0.0	12/08/2022		DP	mg/L	8000	UB



12/7/22

OUTFALL 003 7.54am

pH	D.O.	DO%	Temp
7.22	11.12 mg/L	99.5	10°C


OUTFALL 003 7.54am
pH D.O. DO% Temp
7.22 11.12 99.5 10°C
mg/L

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:23 AM	49 °F	46 °F	90 %	ESE	8 mph	0 mph	29.22 in	0.0 in	Light Rain
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8:54 AM	53 °F	51 °F	93 %	SSE	8 mph	0 mph	29.12 in	0.0 in	Fog
9:01 AM	53 °F	51 °F	93 %	SSE	7 mph	0 mph	29.12 in	0.0 in	Fog
9:10 AM	53 °F	52 °F	96 %	S	8 mph	0 mph	29.12 in	0.0 in	Fog
9:30 AM	55 °F	53 °F	93 %	S	10 mph	0 mph	29.11 in	0.0 in	Light Rain
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5:50 PM	55 °F	54 °F	94 %	SSW	9 mph	0 mph	28.96 in	0.0 in	Fog
5:54 PM	56 °F	55 °F	97 %	SSW	8 mph	0 mph	28.95 in	0.0 in	Fog
6:54 PM	56 °F	54 °F	93 %	SSW	7 mph	0 mph	28.94 in	0.0 in	Fog
7:40 PM	57 °F	54 °F	89 %	WSW	9 mph	0 mph	28.94 in	0.0 in	Fog
7:54 PM	56 °F	54 °F	93 %	WSW	8 mph	0 mph	28.94 in	0.0 in	Fog
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8:37 PM	57 °F	55 °F	93 %	W	13 mph	0 mph	28.95 in	0.0 in	Fog
8:49 PM	57 °F	55 °F	94 %	W	13 mph	0 mph	28.95 in	0.0 in	Cloudy
8:50 PM	57 °F	55 °F	93 %	W	10 mph	0 mph	28.95 in	0.0 in	Cloudy
9:15 PM	56 °F	54 °F	93 %	W	8 mph	0 mph	28.95 in	0.0 in	Fog
9:29 PM	56 °F	54 °F	93 %	W	7 mph	0 mph	28.94 in	0.0 in	Cloudy
9:54 PM	56 °F	54 °F	93 %	W	9 mph	0 mph	28.94 in	0.0 in	Cloudy
10:20 PM	56 °F	54 °F	93 %	W	9 mph	0 mph	28.94 in	0.0 in	Cloudy
10:54 PM	57 °F	53 °F	87 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Cloudy
11:06 PM	56 °F	52 °F	87 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Cloudy
11:54 PM	54 °F	50 °F	86 %	WNW	12 mph	0 mph	28.95 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Quarter 2022	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☒
(explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed Jan 27, 2023

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 1st Quarter 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/2/23 0454am	**Date & Time Sample Collected: 3/2/23 0823am**	**Date & Time Sample Examined: 3/2/23 0908am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☒			
Rainfall Amount: 0.51"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 7/2 light grey**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Seeds**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

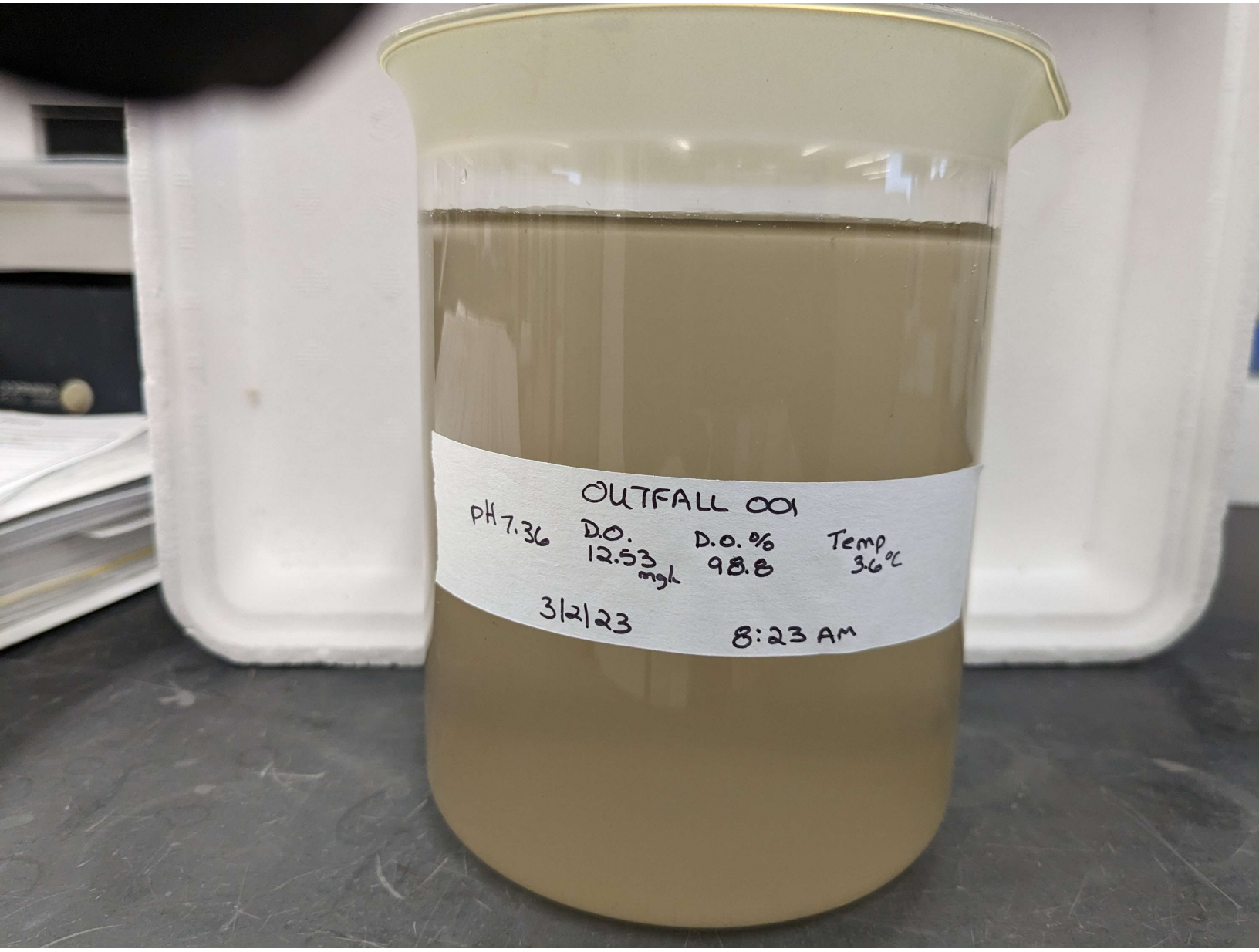
Outfall 1 Treatment Sector T

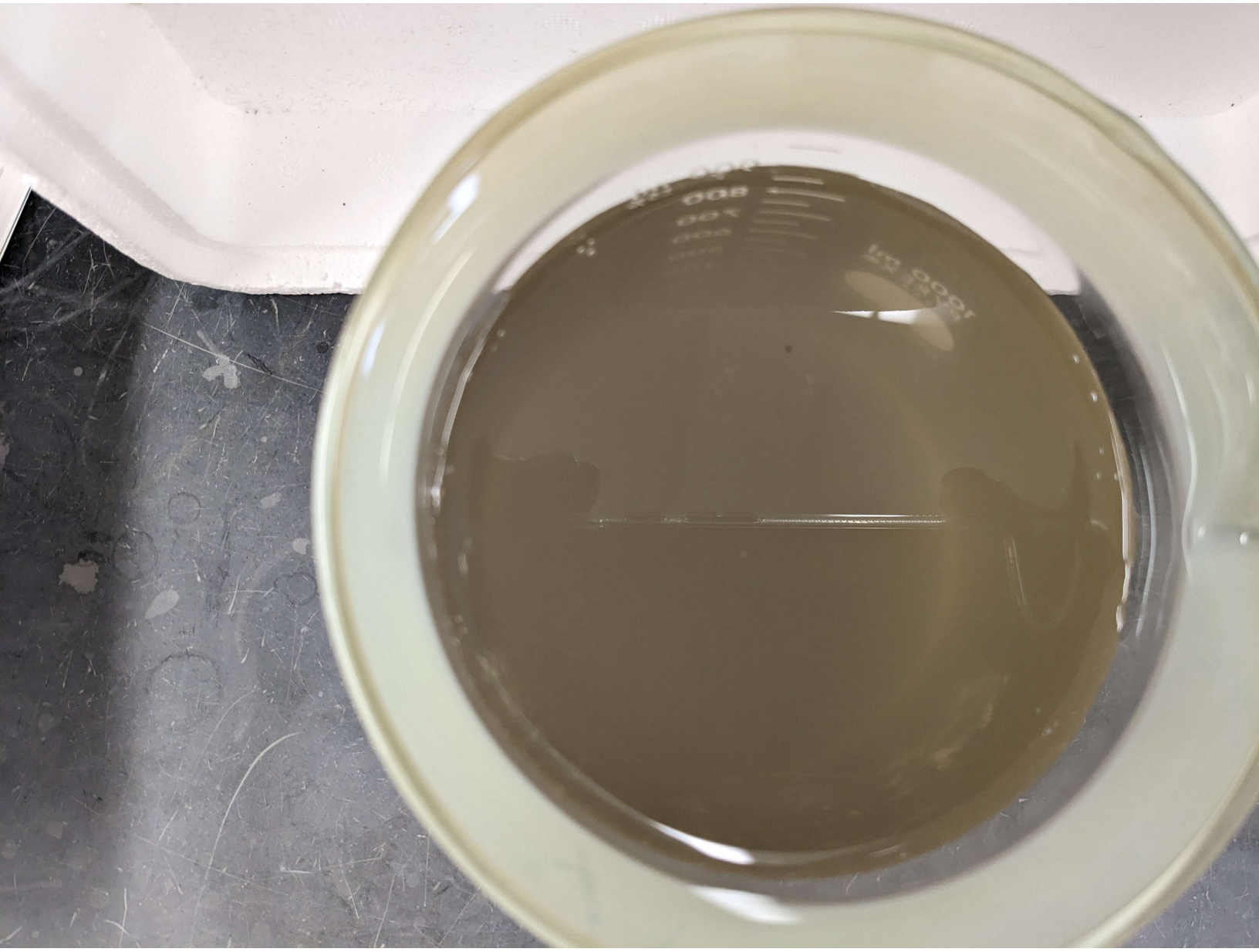
Sampling Date: Thursday, March 2, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.11	03/02/2023		DP	mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	7.4	03/02/2023		DP	SU	150.2	UB
Dissolved Oxygen	12.5	03/02/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	98.8	03/02/2023		DP	%	360.1	UB
Temperature	3.6	03/02/2023		DP	deg C	SM 2550	UB
TSS	51.6	03/02/2023	03/03/2023	DH/OP	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	84.0	030/03/2023		DP	mg/L	8000	UB


OUTFALL 001
pH 7.36
D.O. 12.53 mgl
D.O. % 98.8
Temp 3.6 °C
3/2/23
8:23 AM



Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	34 °F	30 °F	85 %	SE	6 mph	0 mph	28.83 in	0.0 in	Cloudy
1:31 AM	34 °F	31 °F	89 %	ESE	6 mph	0 mph	28.81 in	0.0 in	Cloudy
1:46 AM	34 °F	32 °F	92 %	ESE	3 mph	0 mph	28.80 in	0.0 in	Fog
1:54 AM	33 °F	32 °F	96 %	ESE	5 mph	0 mph	28.79 in	0.0 in	Fog
2:13 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.79 in	0.0 in	Fog
2:34 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.76 in	0.0 in	Fog
2:47 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.76 in	0.0 in	Fog
2:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.75 in	0.0 in	Fog
3:03 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.74 in	0.0 in	Fog
3:23 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.73 in	0.0 in	Fog
3:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.68 in	0.0 in	Fog
4:22 AM	33 °F	32 °F	96 %	E	6 mph	0 mph	28.69 in	0.0 in	Rain
4:54 AM	33 °F	31 °F	92 %	NNE	8 mph	0 mph	28.68 in	0.1 in	Rain
5:01 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.69 in	0.0 in	Freezing Rain
5:14 AM	33 °F	32 °F	96 %	ENE	5 mph	0 mph	28.68 in	0.1 in	Wintry Mix
5:22 AM	33 °F	32 °F	96 %	ENE	6 mph	0 mph	28.65 in	0.1 in	Wintry Mix
5:32 AM	33 °F	31 °F	92 %	NE	6 mph	0 mph	28.64 in	0.2 in	Light Freezing Rain
5:54 AM	33 °F	31 °F	92 %	ENE	7 mph	0 mph	28.62 in	0.2 in	Light Freezing Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:06 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.62 in	0.0 in	Freezing Rain
6:40 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:49 AM	34 °F	30 °F	87 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:54 AM	33 °F	31 °F	92 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
7:05 AM	33 °F	32 °F	96 %	NNE	5 mph	0 mph	28.61 in	0.0 in	Freezing Rain
7:19 AM	33 °F	31 °F	92 %	NW	10 mph	0 mph	28.63 in	0.0 in	Rain
7:22 AM	33 °F	32 °F	96 %	NW	8 mph	0 mph	28.63 in	0.1 in	Rain
7:30 AM	34 °F	32 °F	92 %	N	5 mph	0 mph	28.61 in	0.1 in	Rain
7:44 AM	34 °F	32 °F	92 %	NNE	5 mph	0 mph	28.60 in	0.1 in	Light Rain
7:54 AM	33 °F	32 °F	96 %	NNE	6 mph	0 mph	28.59 in	0.1 in	Light Rain
8:13 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.57 in	0.0 in	Light Rain
8:24 AM	33 °F	32 °F	96 %	NNE	8 mph	0 mph	28.55 in	0.0 in	Light Rain
8:41 AM	33 °F	32 °F	96 %	NNE	9 mph	0 mph	28.55 in	0.0 in	Light Rain
8:50 AM	34 °F	32 °F	93 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
8:54 AM	33 °F	32 °F	96 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
9:54 AM	34 °F	33 °F	96 %	NW	6 mph	0 mph	28.54 in	0.0 in	Fog
10:35 AM	35 °F	33 °F	92 %	N	7 mph	0 mph	28.52 in	0.0 in	Light Rain
10:54 AM	35 °F	33 °F	92 %	NNW	8 mph	0 mph	28.52 in	0.0 in	Fog
11:03 AM	35 °F	33 °F	92 %	NNW	7 mph	0 mph	28.52 in	0.0 in	Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:26 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.50 in	0.0 in	Cloudy
11:54 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:05 PM	36 °F	34 °F	93 %	NW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:22 PM	37 °F	35 °F	93 %	NNW	6 mph	0 mph	28.48 in	0.0 in	Cloudy
12:47 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
12:54 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
1:04 PM	38 °F	35 °F	89 %	WNW	10 mph	0 mph	28.47 in	0.0 in	Cloudy
1:54 PM	39 °F	36 °F	89 %	W	10 mph	0 mph	28.47 in	0.0 in	Cloudy
2:02 PM	40 °F	36 °F	86 %	WNW	14 mph	0 mph	28.47 in	0.0 in	Cloudy
2:28 PM	41 °F	35 °F	79 %	WNW	15 mph	28 mph	28.47 in	0.0 in	Cloudy
2:44 PM	41 °F	36 °F	82 %	WNW	16 mph	24 mph	28.47 in	0.0 in	Mostly Cloudy
2:54 PM	41 °F	35 °F	79 %	WNW	18 mph	29 mph	28.48 in	0.0 in	Mostly Cloudy
3:54 PM	41 °F	33 °F	73 %	WNW	21 mph	32 mph	28.49 in	0.0 in	Mostly Cloudy / Windy
4:21 PM	41 °F	32 °F	70 %	WNW	23 mph	31 mph	28.49 in	0.0 in	Fair / Windy
4:54 PM	41 °F	31 °F	67 %	WNW	22 mph	30 mph	28.52 in	0.0 in	Fair / Windy
5:54 PM	39 °F	30 °F	70 %	WNW	24 mph	35 mph	28.54 in	0.0 in	Fair / Windy
6:54 PM	37 °F	29 °F	73 %	W	24 mph	33 mph	28.56 in	0.0 in	Fair / Windy
7:35 PM	37 °F	28 °F	70 %	W	23 mph	32 mph	28.57 in	0.0 in	Mostly Cloudy / Windy
7:54 PM	37 °F	28 °F	70 %	WNW	18 mph	28 mph	28.58 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
8:54 PM	37 °F	28 °F	70 %	WNW	17 mph	24 mph	28.64 in	0.0 in	Cloudy
9:22 PM	36 °F	28 °F	73 %	WNW	20 mph	26 mph	28.64 in	0.0 in	Partly Cloudy
9:54 PM	36 °F	27 °F	70 %	NW	18 mph	31 mph	28.68 in	0.0 in	Fair
10:54 PM	35 °F	26 °F	70 %	WNW	18 mph	29 mph	28.69 in	0.0 in	Partly Cloudy
11:34 PM	36 °F	25 °F	64 %	NW	15 mph	28 mph	28.71 in	0.0 in	Cloudy
11:54 PM	35 °F	25 °F	67 %	NNW	14 mph	30 mph	28.70 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 1st Quarter 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/2/23 0454am	**Date & Time Sample Collected: 3/2/23 0838am**	**Date & Time Sample Examined: 3/2/23 0908am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☒			
Rainfall Amount: 0.51"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 6/3 light yellowish brown**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Seeds/stems**		
Settled Solids**	**No ☐ Yes ☒ (describe): Sediment particles**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☒ (describe): Quickly disappears**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

Outfall 2 Treatment Sector T

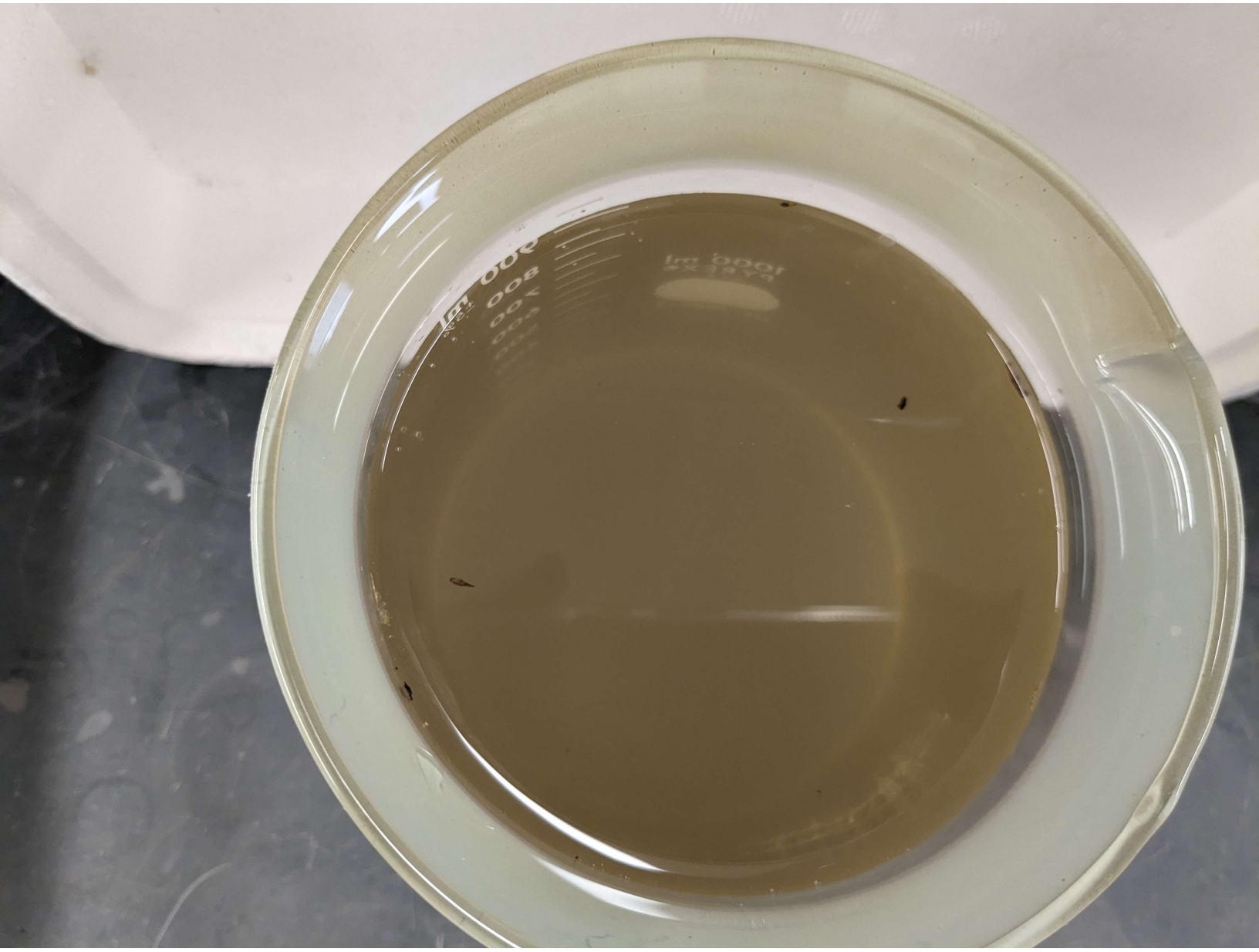
Sampling Date: Thursday, March 2, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.53	03/02/2023		DP	mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.5	03/02/2023		DP	SU	150.2	UB
Dissolved Oxygen	12.0	03/02/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	86.9	03/02/2023		DP	%	360.1	UB
Temperature	1.2	03/02/2023		DP	deg. C	SM 2550	UB
TSS	51.6	03/02/2023	03/03/2023	DH/OP	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	84.0	03/03/2023		DP	mg/L	8000	UB


OUTFALL 002
pH 6.50
D.O.
11.99 mg/L
D.O. %
86.9
Temp.
1.2°C
3-2-23
8:38 am



Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	34 °F	30 °F	85 %	SE	6 mph	0 mph	28.83 in	0.0 in	Cloudy
1:31 AM	34 °F	31 °F	89 %	ESE	6 mph	0 mph	28.81 in	0.0 in	Cloudy
1:46 AM	34 °F	32 °F	92 %	ESE	3 mph	0 mph	28.80 in	0.0 in	Fog
1:54 AM	33 °F	32 °F	96 %	ESE	5 mph	0 mph	28.79 in	0.0 in	Fog
2:13 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.79 in	0.0 in	Fog
2:34 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.76 in	0.0 in	Fog
2:47 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.76 in	0.0 in	Fog
2:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.75 in	0.0 in	Fog
3:03 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.74 in	0.0 in	Fog
3:23 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.73 in	0.0 in	Fog
3:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.68 in	0.0 in	Fog
4:22 AM	33 °F	32 °F	96 %	E	6 mph	0 mph	28.69 in	0.0 in	Rain
4:54 AM	33 °F	31 °F	92 %	NNE	8 mph	0 mph	28.68 in	0.1 in	Rain
5:01 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.69 in	0.0 in	Freezing Rain
5:14 AM	33 °F	32 °F	96 %	ENE	5 mph	0 mph	28.68 in	0.1 in	Wintry Mix
5:22 AM	33 °F	32 °F	96 %	ENE	6 mph	0 mph	28.65 in	0.1 in	Wintry Mix
5:32 AM	33 °F	31 °F	92 %	NE	6 mph	0 mph	28.64 in	0.2 in	Light Freezing Rain
5:54 AM	33 °F	31 °F	92 %	ENE	7 mph	0 mph	28.62 in	0.2 in	Light Freezing Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:06 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.62 in	0.0 in	Freezing Rain
6:40 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:49 AM	34 °F	30 °F	87 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:54 AM	33 °F	31 °F	92 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
7:05 AM	33 °F	32 °F	96 %	NNE	5 mph	0 mph	28.61 in	0.0 in	Freezing Rain
7:19 AM	33 °F	31 °F	92 %	NW	10 mph	0 mph	28.63 in	0.0 in	Rain
7:22 AM	33 °F	32 °F	96 %	NW	8 mph	0 mph	28.63 in	0.1 in	Rain
7:30 AM	34 °F	32 °F	92 %	N	5 mph	0 mph	28.61 in	0.1 in	Rain
7:44 AM	34 °F	32 °F	92 %	NNE	5 mph	0 mph	28.60 in	0.1 in	Light Rain
7:54 AM	33 °F	32 °F	96 %	NNE	6 mph	0 mph	28.59 in	0.1 in	Light Rain
8:13 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.57 in	0.0 in	Light Rain
8:24 AM	33 °F	32 °F	96 %	NNE	8 mph	0 mph	28.55 in	0.0 in	Light Rain
8:41 AM	33 °F	32 °F	96 %	NNE	9 mph	0 mph	28.55 in	0.0 in	Light Rain
8:50 AM	34 °F	32 °F	93 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
8:54 AM	33 °F	32 °F	96 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
9:54 AM	34 °F	33 °F	96 %	NW	6 mph	0 mph	28.54 in	0.0 in	Fog
10:35 AM	35 °F	33 °F	92 %	N	7 mph	0 mph	28.52 in	0.0 in	Light Rain
10:54 AM	35 °F	33 °F	92 %	NNW	8 mph	0 mph	28.52 in	0.0 in	Fog
11:03 AM	35 °F	33 °F	92 %	NNW	7 mph	0 mph	28.52 in	0.0 in	Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:26 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.50 in	0.0 in	Cloudy
11:54 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:05 PM	36 °F	34 °F	93 %	NW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:22 PM	37 °F	35 °F	93 %	NNW	6 mph	0 mph	28.48 in	0.0 in	Cloudy
12:47 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
12:54 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
1:04 PM	38 °F	35 °F	89 %	WNW	10 mph	0 mph	28.47 in	0.0 in	Cloudy
1:54 PM	39 °F	36 °F	89 %	W	10 mph	0 mph	28.47 in	0.0 in	Cloudy
2:02 PM	40 °F	36 °F	86 %	WNW	14 mph	0 mph	28.47 in	0.0 in	Cloudy
2:28 PM	41 °F	35 °F	79 %	WNW	15 mph	28 mph	28.47 in	0.0 in	Cloudy
2:44 PM	41 °F	36 °F	82 %	WNW	16 mph	24 mph	28.47 in	0.0 in	Mostly Cloudy
2:54 PM	41 °F	35 °F	79 %	WNW	18 mph	29 mph	28.48 in	0.0 in	Mostly Cloudy
3:54 PM	41 °F	33 °F	73 %	WNW	21 mph	32 mph	28.49 in	0.0 in	Mostly Cloudy / Windy
4:21 PM	41 °F	32 °F	70 %	WNW	23 mph	31 mph	28.49 in	0.0 in	Fair / Windy
4:54 PM	41 °F	31 °F	67 %	WNW	22 mph	30 mph	28.52 in	0.0 in	Fair / Windy
5:54 PM	39 °F	30 °F	70 %	WNW	24 mph	35 mph	28.54 in	0.0 in	Fair / Windy
6:54 PM	37 °F	29 °F	73 %	W	24 mph	33 mph	28.56 in	0.0 in	Fair / Windy
7:35 PM	37 °F	28 °F	70 %	W	23 mph	32 mph	28.57 in	0.0 in	Mostly Cloudy / Windy
7:54 PM	37 °F	28 °F	70 %	WNW	18 mph	28 mph	28.58 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
8:54 PM	37 °F	28 °F	70 %	WNW	17 mph	24 mph	28.64 in	0.0 in	Cloudy
9:22 PM	36 °F	28 °F	73 %	WNW	20 mph	26 mph	28.64 in	0.0 in	Partly Cloudy
9:54 PM	36 °F	27 °F	70 %	NW	18 mph	31 mph	28.68 in	0.0 in	Fair
10:54 PM	35 °F	26 °F	70 %	WNW	18 mph	29 mph	28.69 in	0.0 in	Partly Cloudy
11:34 PM	36 °F	25 °F	64 %	NW	15 mph	28 mph	28.71 in	0.0 in	Cloudy
11:54 PM	35 °F	25 °F	67 %	NNW	14 mph	30 mph	28.70 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 1st Quarter 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech and Dennis Lowe / Regulatory Compliance Engineer			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/2/23 0454am	**Date & Time Sample Collected: 3/2/23 0834am**	**Date & Time Sample Examined: 3/2/23 0908am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☒			
Rainfall Amount: 0.51"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 2.5 Y 7/3**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): grass/seeds**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

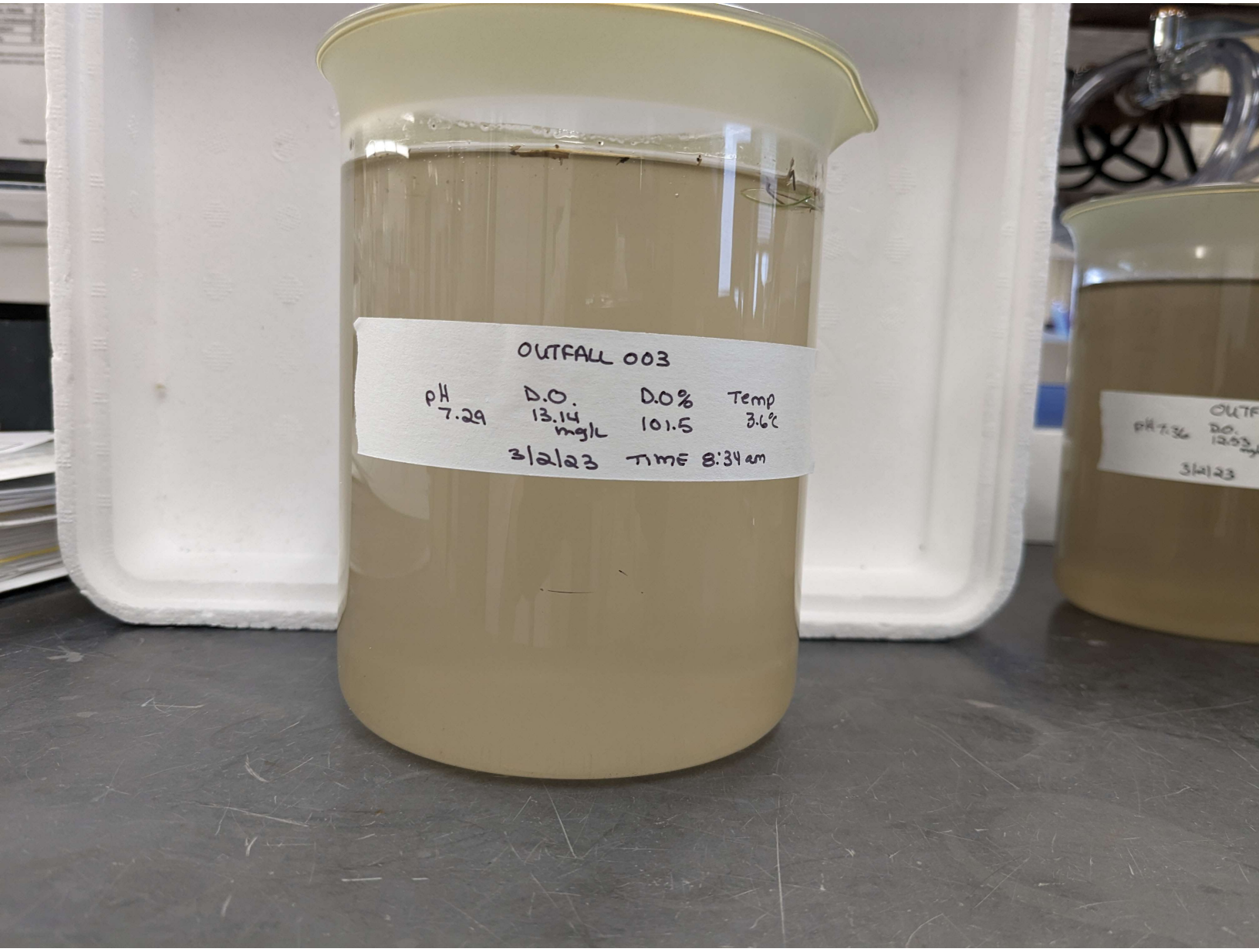
Outfall 3 Treatment Sector T

Sampling Date: Thursday, March 2, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus	0.31	03/02/2023		DP	mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	7.3	03/02/2023		DP	SU	150.2	UB
Dissolved Oxygen	13.2	03/02/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	101.5	03/02/2023		DP	%	360.1	UB
Temperature	3.6	03/02/2023		DP	deg. C	SM 2550	UB
TSS	35	03/02/2023	03/03/2023	DH/OP	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	54.0	03/03/2023		DP	mg/L	8000	UB


OUTFALL 003
pH 7.29
D.O. 13.14 mg/L
D.O% 101.5
Temp 3.6°C
3/2/23 TIME 8:34 am

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	34 °F	30 °F	85 %	SE	6 mph	0 mph	28.83 in	0.0 in	Cloudy
1:31 AM	34 °F	31 °F	89 %	ESE	6 mph	0 mph	28.81 in	0.0 in	Cloudy
1:46 AM	34 °F	32 °F	92 %	ESE	3 mph	0 mph	28.80 in	0.0 in	Fog
1:54 AM	33 °F	32 °F	96 %	ESE	5 mph	0 mph	28.79 in	0.0 in	Fog
2:13 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.79 in	0.0 in	Fog
2:34 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.76 in	0.0 in	Fog
2:47 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.76 in	0.0 in	Fog
2:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.75 in	0.0 in	Fog
3:03 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.74 in	0.0 in	Fog
3:23 AM	34 °F	32 °F	92 %	E	6 mph	0 mph	28.73 in	0.0 in	Fog
3:54 AM	34 °F	32 °F	92 %	E	7 mph	0 mph	28.68 in	0.0 in	Fog
4:22 AM	33 °F	32 °F	96 %	E	6 mph	0 mph	28.69 in	0.0 in	Rain
4:54 AM	33 °F	31 °F	92 %	NNE	8 mph	0 mph	28.68 in	0.1 in	Rain
5:01 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.69 in	0.0 in	Freezing Rain
5:14 AM	33 °F	32 °F	96 %	ENE	5 mph	0 mph	28.68 in	0.1 in	Wintry Mix
5:22 AM	33 °F	32 °F	96 %	ENE	6 mph	0 mph	28.65 in	0.1 in	Wintry Mix
5:32 AM	33 °F	31 °F	92 %	NE	6 mph	0 mph	28.64 in	0.2 in	Light Freezing Rain
5:54 AM	33 °F	31 °F	92 %	ENE	7 mph	0 mph	28.62 in	0.2 in	Light Freezing Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:06 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.62 in	0.0 in	Freezing Rain
6:40 AM	33 °F	31 °F	92 %	ENE	6 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:49 AM	34 °F	30 °F	87 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
6:54 AM	33 °F	31 °F	92 %	NE	5 mph	0 mph	28.60 in	0.1 in	Light Freezing Rain
7:05 AM	33 °F	32 °F	96 %	NNE	5 mph	0 mph	28.61 in	0.0 in	Freezing Rain
7:19 AM	33 °F	31 °F	92 %	NW	10 mph	0 mph	28.63 in	0.0 in	Rain
7:22 AM	33 °F	32 °F	96 %	NW	8 mph	0 mph	28.63 in	0.1 in	Rain
7:30 AM	34 °F	32 °F	92 %	N	5 mph	0 mph	28.61 in	0.1 in	Rain
7:44 AM	34 °F	32 °F	92 %	NNE	5 mph	0 mph	28.60 in	0.1 in	Light Rain
7:54 AM	33 °F	32 °F	96 %	NNE	6 mph	0 mph	28.59 in	0.1 in	Light Rain
8:13 AM	33 °F	31 °F	92 %	NNE	6 mph	0 mph	28.57 in	0.0 in	Light Rain
8:24 AM	33 °F	32 °F	96 %	NNE	8 mph	0 mph	28.55 in	0.0 in	Light Rain
8:41 AM	33 °F	32 °F	96 %	NNE	9 mph	0 mph	28.55 in	0.0 in	Light Rain
8:50 AM	34 °F	32 °F	93 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
8:54 AM	33 °F	32 °F	96 %	NNE	10 mph	0 mph	28.52 in	0.0 in	Light Rain
9:54 AM	34 °F	33 °F	96 %	NW	6 mph	0 mph	28.54 in	0.0 in	Fog
10:35 AM	35 °F	33 °F	92 %	N	7 mph	0 mph	28.52 in	0.0 in	Light Rain
10:54 AM	35 °F	33 °F	92 %	NNW	8 mph	0 mph	28.52 in	0.0 in	Fog
11:03 AM	35 °F	33 °F	92 %	NNW	7 mph	0 mph	28.52 in	0.0 in	Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
11:26 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.50 in	0.0 in	Cloudy
11:54 AM	36 °F	34 °F	93 %	NNW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:05 PM	36 °F	34 °F	93 %	NW	6 mph	0 mph	28.49 in	0.0 in	Fog
12:22 PM	37 °F	35 °F	93 %	NNW	6 mph	0 mph	28.48 in	0.0 in	Cloudy
12:47 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
12:54 PM	38 °F	35 °F	89 %	WNW	9 mph	0 mph	28.48 in	0.0 in	Fog
1:04 PM	38 °F	35 °F	89 %	WNW	10 mph	0 mph	28.47 in	0.0 in	Cloudy
1:54 PM	39 °F	36 °F	89 %	W	10 mph	0 mph	28.47 in	0.0 in	Cloudy
2:02 PM	40 °F	36 °F	86 %	WNW	14 mph	0 mph	28.47 in	0.0 in	Cloudy
2:28 PM	41 °F	35 °F	79 %	WNW	15 mph	28 mph	28.47 in	0.0 in	Cloudy
2:44 PM	41 °F	36 °F	82 %	WNW	16 mph	24 mph	28.47 in	0.0 in	Mostly Cloudy
2:54 PM	41 °F	35 °F	79 %	WNW	18 mph	29 mph	28.48 in	0.0 in	Mostly Cloudy
3:54 PM	41 °F	33 °F	73 %	WNW	21 mph	32 mph	28.49 in	0.0 in	Mostly Cloudy / Windy
4:21 PM	41 °F	32 °F	70 %	WNW	23 mph	31 mph	28.49 in	0.0 in	Fair / Windy
4:54 PM	41 °F	31 °F	67 %	WNW	22 mph	30 mph	28.52 in	0.0 in	Fair / Windy
5:54 PM	39 °F	30 °F	70 %	WNW	24 mph	35 mph	28.54 in	0.0 in	Fair / Windy
6:54 PM	37 °F	29 °F	73 %	W	24 mph	33 mph	28.56 in	0.0 in	Fair / Windy
7:35 PM	37 °F	28 °F	70 %	W	23 mph	32 mph	28.57 in	0.0 in	Mostly Cloudy / Windy
7:54 PM	37 °F	28 °F	70 %	WNW	18 mph	28 mph	28.58 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
8:54 PM	37 °F	28 °F	70 %	WNW	17 mph	24 mph	28.64 in	0.0 in	Cloudy
9:22 PM	36 °F	28 °F	73 %	WNW	20 mph	26 mph	28.64 in	0.0 in	Partly Cloudy
9:54 PM	36 °F	27 °F	70 %	NW	18 mph	31 mph	28.68 in	0.0 in	Fair
10:54 PM	35 °F	26 °F	70 %	WNW	18 mph	29 mph	28.69 in	0.0 in	Partly Cloudy
11:34 PM	36 °F	25 °F	64 %	NW	15 mph	28 mph	28.71 in	0.0 in	Cloudy
11:54 PM	35 °F	25 °F	67 %	NNW	14 mph	30 mph	28.70 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 1st Quarter 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty / Sr Lab Tech			
Person(s) / Title(s) examining sample: Denise Prouty / Sr Lab Tech			
Date & Time Storm or Snowmelt Began: 3/14/23 0054am	**Date & Time Sample Collected: 3/14/23 0802am**	**Date & Time Sample Examined: 3/14/23 0915am**	
Nature of Discharge: Rainfall ☒ Snowmelt ☒			
Rainfall Amount: 1.64"	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☒ (explain): There was no measurable discharge.**		
Parameter			
Color	**None ☐ Other ☒ (describe): Pale Yellow 8/2**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe): Seeds**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed April 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

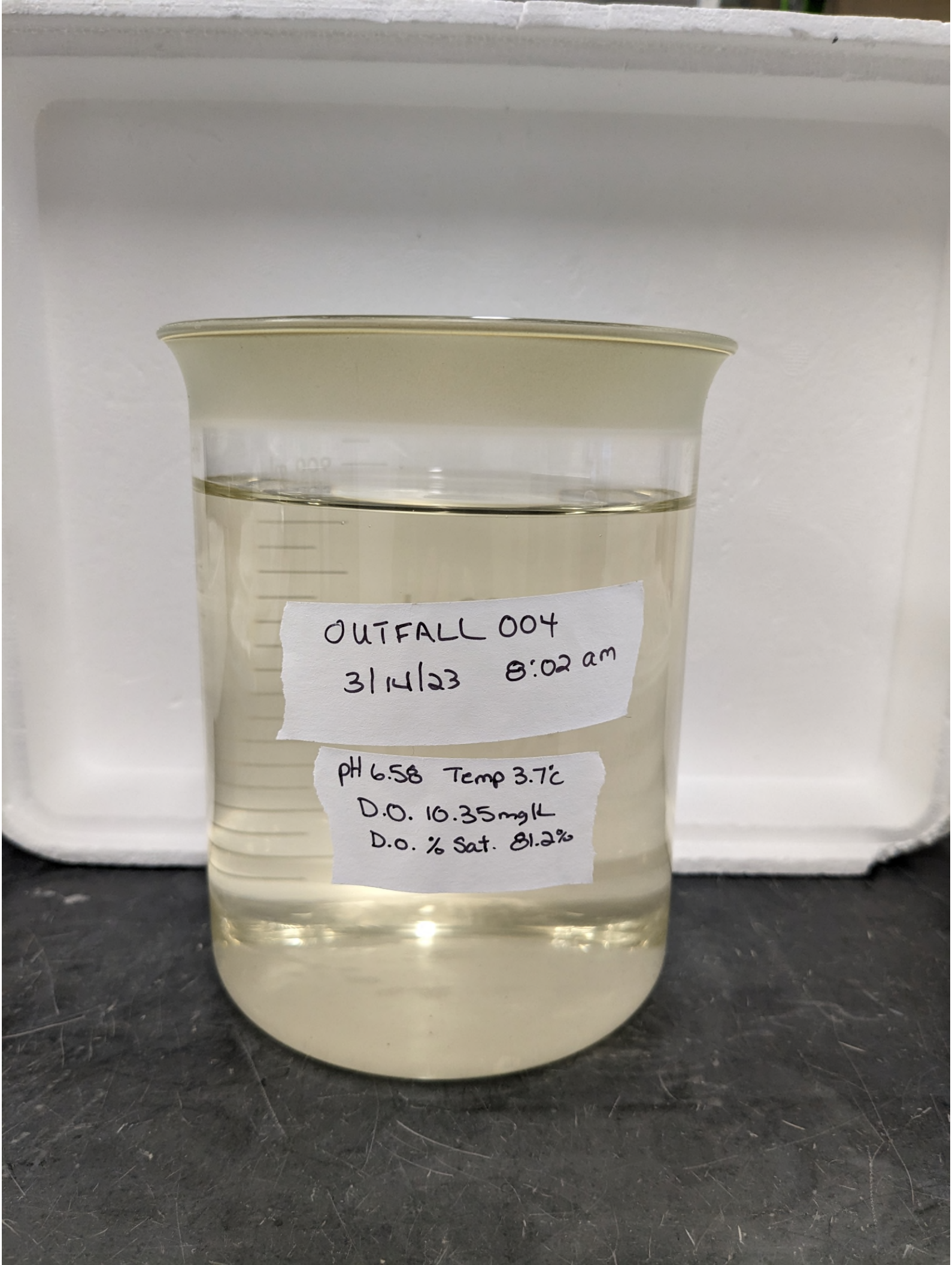
Outfall 4 Treatment Sector L

Sampling Date: Tuesday, March 14, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	<0.0	03/19/2023		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	0.22	03/16/2023		DP	mg/L	365.2	UB
E.coli	64.4	03/14/2023	03/15/2023	DP	MPN	Colilert	UB
pH	6.6	03/14/2023		DP	SU	150.2	UB
Dissolved Oxygen	10.4	03/14/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	81.2	03/14/2023		DP	% sat	360.1	UB
Temperature	3.7	03/14/2023		DP	deg. C	SM 2550	UB
TSS	2.0	03/14/2023	03/15/2023	AC	mg/L	160.2	UB
FOG	<3.6	03/19/2023		ALPHA	mg/L	1664 A	Alpha
Turbidity	2.2	03/16/2023		ALPHA	NTU	180.1	Alpha
COD	13.7	03/16/2023		DP	mg/L	8000	UB


OUTFALL 004
3/14/23 8:02 am
pH 6.58 Temp 3.7°C
D.O. 10.35 mg/L
D.O. % Sat. 81.2%

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:06 AM	34 °F	32 °F	92 %	NE	8 mph	17 mph	28.66 in	0.0 in	Light Rain
12:29 AM	34 °F	33 °F	96 %	NE	9 mph	16 mph	28.64 in	0.0 in	Light Snow
12:54 AM	35 °F	33 °F	92 %	ENE	8 mph	20 mph	28.62 in	0.1 in	Light Snow
1:19 AM	34 °F	33 °F	96 %	NE	10 mph	18 mph	28.60 in	0.0 in	Light Snow
1:54 AM	34 °F	32 °F	92 %	NE	10 mph	18 mph	28.58 in	0.1 in	Light Snow
2:03 AM	34 °F	32 °F	92 %	NE	10 mph	20 mph	28.57 in	0.0 in	Light Snow
2:33 AM	34 °F	32 °F	92 %	NE	10 mph	21 mph	28.54 in	0.1 in	Light Snow
2:43 AM	34 °F	32 °F	92 %	NE	12 mph	22 mph	28.53 in	0.1 in	Light Snow
2:54 AM	34 °F	32 °F	92 %	NE	14 mph	25 mph	28.52 in	0.1 in	Light Snow
3:22 AM	34 °F	32 °F	92 %	NE	15 mph	24 mph	28.50 in	0.1 in	Light Snow
3:43 AM	35 °F	33 °F	92 %	NE	13 mph	21 mph	28.49 in	0.1 in	Rain
3:54 AM	34 °F	33 °F	96 %	NE	12 mph	22 mph	28.48 in	0.1 in	Light Rain
4:28 AM	35 °F	34 °F	96 %	NE	10 mph	21 mph	28.46 in	0.1 in	Rain
4:37 AM	35 °F	34 °F	96 %	NE	10 mph	20 mph	28.46 in	0.1 in	Rain
4:54 AM	35 °F	33 °F	92 %	NE	12 mph	21 mph	28.44 in	0.1 in	Rain
5:52 AM	34 °F	32 °F	93 %	NE	12 mph	20 mph	28.42 in	0.2 in	Light Snow
5:54 AM	33 °F	32 °F	96 %	NE	13 mph	20 mph	28.41 in	0.2 in	Light Snow
6:54 AM	33 °F	31 °F	92 %	NE	15 mph	23 mph	28.39 in	0.1 in	Snow

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
7:54 AM	33 °F	31 °F	92 %	NE	12 mph	22 mph	28.38 in	0.1 in	Snow
8:01 AM	33 °F	31 °F	92 %	NE	14 mph	23 mph	28.38 in	0.0 in	Heavy Snow
8:54 AM	32 °F	31 °F	96 %	NE	16 mph	24 mph	28.36 in	0.2 in	Snow
9:54 AM	32 °F	31 °F	96 %	NE	15 mph	25 mph	28.33 in	0.1 in	Snow
10:13 AM	32 °F	31 °F	96 %	NE	17 mph	26 mph	28.31 in	0.0 in	Snow
10:54 AM	32 °F	31 °F	96 %	NE	17 mph	32 mph	28.28 in	0.1 in	Heavy Snow
11:02 AM	32 °F	31 °F	96 %	NE	22 mph	32 mph	28.27 in	0.0 in	Snow / Windy
11:33 AM	32 °F	31 °F	96 %	NE	20 mph	29 mph	28.27 in	0.1 in	Snow
11:54 AM	32 °F	30 °F	92 %	NE	17 mph	32 mph	28.25 in	0.1 in	Heavy Snow
12:08 PM	32 °F	31 °F	96 %	NE	18 mph	30 mph	28.25 in	0.0 in	Snow
12:24 PM	32 °F	31 °F	96 %	NNE	20 mph	32 mph	28.25 in	0.1 in	Snow
12:38 PM	33 °F	31 °F	92 %	NE	18 mph	32 mph	28.25 in	0.1 in	Light Snow
12:54 PM	33 °F	31 °F	92 %	NE	18 mph	28 mph	28.24 in	0.1 in	Light Snow
1:12 PM	33 °F	31 °F	92 %	NE	18 mph	30 mph	28.23 in	0.0 in	Light Snow
1:54 PM	33 °F	30 °F	89 %	NNE	17 mph	30 mph	28.21 in	0.0 in	Light Snow
2:54 PM	33 °F	30 °F	89 %	NNE	21 mph	29 mph	28.19 in	0.0 in	Snow / Windy
3:54 PM	32 °F	30 °F	92 %	NNE	22 mph	35 mph	28.19 in	0.0 in	Snow / Windy
4:54 PM	33 °F	30 °F	89 %	N	18 mph	25 mph	28.20 in	0.0 in	Snow
5:13 PM	33 °F	30 °F	89 %	N	18 mph	0 mph	28.20 in	0.0 in	Snow

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
5:26 PM	33 °F	30 °F	89 %	N	15 mph	25 mph	28.21 in	0.0 in	Snow
5:54 PM	33 °F	30 °F	89 %	N	16 mph	23 mph	28.22 in	0.1 in	Snow
6:54 PM	33 °F	31 °F	92 %	NW	17 mph	21 mph	28.23 in	0.0 in	Light Snow
7:16 PM	33 °F	30 °F	89 %	NW	20 mph	33 mph	28.24 in	0.0 in	Light Snow
7:42 PM	33 °F	30 °F	89 %	NNW	15 mph	0 mph	28.24 in	0.0 in	Light Snow
7:51 PM	34 °F	30 °F	87 %	NNW	13 mph	24 mph	28.24 in	0.0 in	Light Snow
7:54 PM	33 °F	30 °F	89 %	NNW	16 mph	24 mph	28.24 in	0.0 in	Light Snow
8:07 PM	33 °F	30 °F	89 %	NW	17 mph	28 mph	28.24 in	0.0 in	Light Snow
8:54 PM	32 °F	29 °F	88 %	NW	26 mph	37 mph	28.24 in	0.0 in	Light Snow / Windy
9:08 PM	32 °F	28 °F	85 %	NW	22 mph	33 mph	28.24 in	0.0 in	Light Snow / Windy
9:18 PM	32 °F	28 °F	85 %	NW	25 mph	36 mph	28.24 in	0.0 in	Light Snow / Windy
9:41 PM	32 °F	28 °F	85 %	NW	24 mph	35 mph	28.24 in	0.0 in	Light Snow / Windy
9:54 PM	32 °F	28 °F	85 %	NW	26 mph	36 mph	28.24 in	0.0 in	Light Snow / Windy
10:54 PM	32 °F	27 °F	82 %	NW	24 mph	39 mph	28.24 in	0.0 in	Light Snow / Windy
11:19 PM	32 °F	28 °F	85 %	WNW	28 mph	43 mph	28.24 in	0.0 in	Light Snow / Windy
11:30 PM	32 °F	28 °F	85 %	NW	29 mph	39 mph	28.24 in	0.0 in	Light Snow / Windy
11:54 PM	32 °F	28 °F	85 %	NW	25 mph	41 mph	28.24 in	0.0 in	Light Snow / Windy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Q 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: George Dunning (Sr. Ops) & Jared Oliver (Sr. Ops)			
Person(s) / Title(s) examining sample: Amanda Coffuire (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 6/17/2023 11:40AM	**Date & Time Sample Collected: 6/17/2023 1:30PM**	**Date & Time Sample Examined: 6/20/23 7:15AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.38 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 7/2 Light Grey**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): leaf litter bits**		
Suspended Solids	**No ☐ Yes ☒ (describe): leaf litter bits**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed August 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

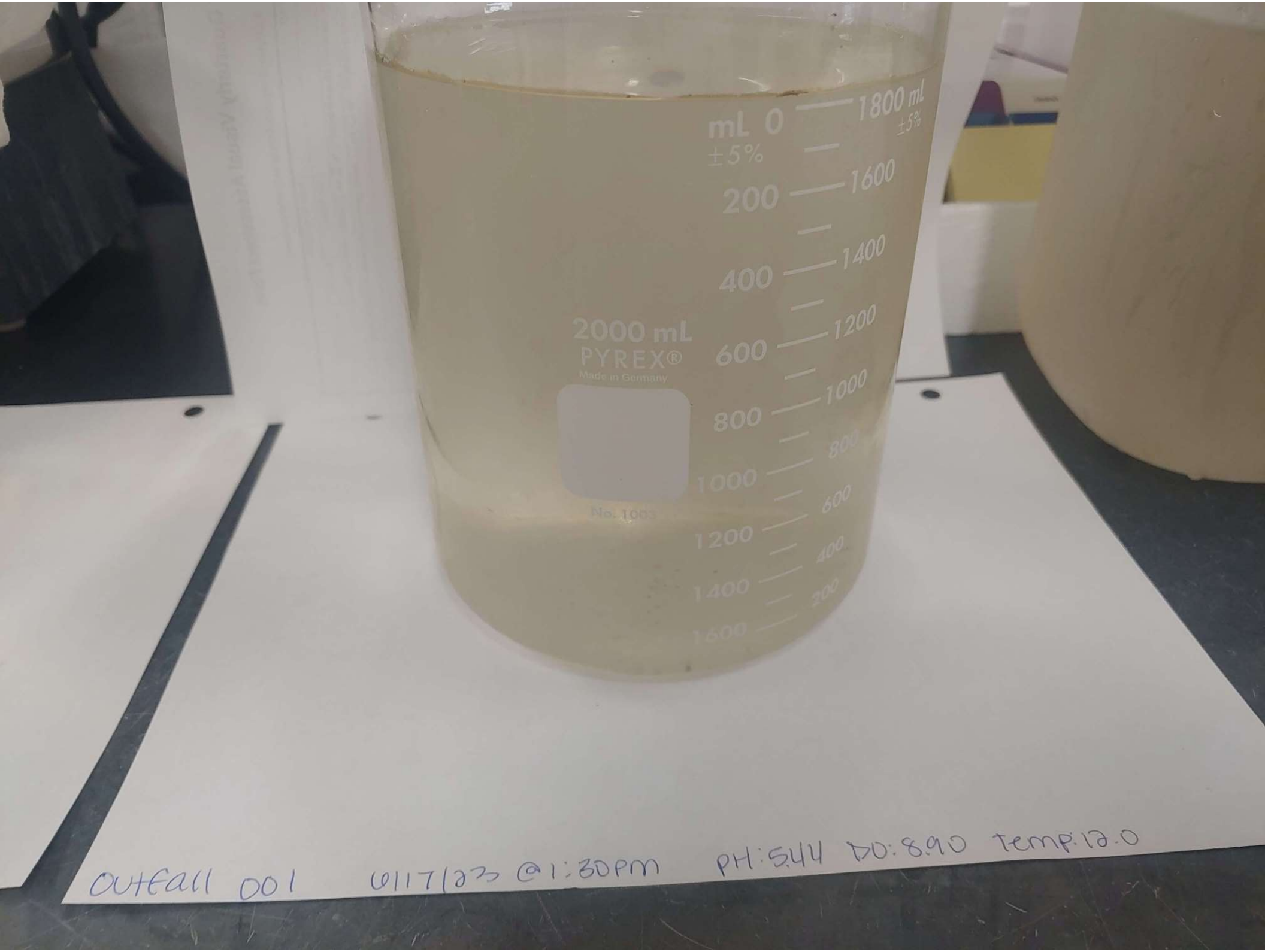
Outfall 1 Treatment Sector T

Sampling Date: Saturday, June 17, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	5.4	6/20/2023		AC	SU	150.2	UB
Dissolved Oxygen	8.9	6/20/2023		AC	mg/L	360.1	UB
Dissolved Oxygen	89.3	6/20/2023		AC	%	360.1	UB
Temperature	12.0	6/20/2023		AC	deg C	SM 2550	UB
TSS	6.8	6/20/23	6/21/23	BP	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	36.2	6/20/2023		DH	mg/L	8000	UB


2000 mL
PYREX®
Made in Germany
mL 0
±5%
1800 mL
±5%
OUTFALL 001 01/17/23 @1:30PM PH: 5.44 DO: 8.90 Temp: 12.0

Daily Observations June17, 2023

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	63 °F	60 °F	90 %	CALM	0 mph	0 mph	28.61 in	0.0 in	Mostly Cloudy
1:16 AM	62 °F	60 °F	93 %	CALM	0 mph	0 mph	28.61 in	0.0 in	Partly Cloudy
1:54 AM	62 °F	60 °F	93 %	NNE	3 mph	0 mph	28.59 in	0.0 in	Mostly Cloudy
2:34 AM	62 °F	59 °F	90 %	NE	6 mph	0 mph	28.58 in	0.0 in	Mostly Cloudy
2:52 AM	61 °F	59 °F	94 %	NNE	6 mph	0 mph	28.58 in	0.0 in	Cloudy
2:54 AM	61 °F	59 °F	93 %	NNE	6 mph	0 mph	28.58 in	0.0 in	Cloudy
3:54 AM	60 °F	58 °F	93 %	NNE	3 mph	0 mph	28.57 in	0.0 in	Fair
4:54 AM	60 °F	58 °F	93 %	NE	3 mph	0 mph	28.57 in	0.0 in	Mostly Cloudy
5:41 AM	60 °F	58 °F	93 %	N	3 mph	0 mph	28.57 in	0.0 in	Cloudy
5:52 AM	61 °F	57 °F	88 %	N	3 mph	0 mph	28.58 in	0.0 in	Cloudy
5:54 AM	60 °F	58 °F	93 %	NNE	3 mph	0 mph	28.58 in	0.0 in	Cloudy
6:54 AM	60 °F	58 °F	93 %	NNE	5 mph	0 mph	28.56 in	0.0 in	Cloudy
7:54 AM	61 °F	58 °F	90 %	N	5 mph	0 mph	28.56 in	0.0 in	Cloudy
8:10 AM	62 °F	58 °F	86 %	NNW	5 mph	0 mph	28.56 in	0.0 in	Cloudy
8:29 AM	62 °F	57 °F	84 %	CALM	0 mph	0 mph	28.57 in	0.0 in	Cloudy
8:54 AM	63 °F	58 °F	84 %	CALM	0 mph	0 mph	28.57 in	0.0 in	Cloudy
9:02 AM	62 °F	58 °F	86 %	NE	5 mph	0 mph	28.57 in	0.0 in	Cloudy
9:54 AM	63 °F	57 °F	81 %	N	5 mph	0 mph	28.57 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
10:04 AM	63 °F	57 °F	81 %	NNE	3 mph	0 mph	28.57 in	0.0 in	Cloudy
10:37 AM	64 °F	57 °F	78 %	CALM	0 mph	0 mph	28.56 in	0.0 in	Cloudy
10:54 AM	65 °F	57 °F	75 %	CALM	0 mph	0 mph	28.55 in	0.0 in	Cloudy
11:40 AM	66 °F	57 °F	73 %	NW	5 mph	0 mph	28.55 in	0.0 in	Light Rain
11:54 AM	64 °F	57 °F	78 %	WNW	13 mph	0 mph	28.54 in	0.0 in	Cloudy
12:17 PM	63 °F	57 °F	81 %		0 mph	0 mph	28.54 in	0.0 in	N/A
12:54 PM	65 °F	57 °F	75 %	NNW	9 mph	0 mph	28.54 in	0.0 in	Mostly Cloudy
1:11 PM	64 °F	58 °F	80 %	NW	10 mph	0 mph	28.53 in	0.0 in	T-Storm
1:54 PM	64 °F	58 °F	80 %	NNW	5 mph	0 mph	28.53 in	0.0 in	Thunder in the Vicinity
2:04 PM	64 °F	58 °F	80 %	CALM	0 mph	0 mph	28.53 in	0.0 in	Light Rain
2:18 PM	63 °F	59 °F	87 %	ENE	5 mph	0 mph	28.53 in	0.0 in	Cloudy
2:35 PM	62 °F	59 °F	90 %	NE	7 mph	0 mph	28.53 in	0.0 in	Rain
2:38 PM	61 °F	59 °F	93 %	NNE	6 mph	0 mph	28.53 in	0.1 in	Heavy Rain
2:45 PM	59 °F	57 °F	93 %	WNW	13 mph	21 mph	28.54 in	0.3 in	Heavy Rain
2:54 PM	59 °F	57 °F	93 %	NNW	8 mph	0 mph	28.53 in	0.7 in	Heavy Rain
3:01 PM	60 °F	57 °F	90 %	NNW	8 mph	0 mph	28.54 in	0.1 in	Heavy Rain
3:11 PM	60 °F	57 °F	90 %	NNW	8 mph	0 mph	28.54 in	0.1 in	Light Rain
3:31 PM	60 °F	57 °F	90 %	NW	14 mph	23 mph	28.55 in	0.1 in	Light Rain
3:42 PM	60 °F	57 °F	90 %	NNW	13 mph	25 mph	28.54 in	0.1 in	Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
3:54 PM	60 °F	57 °F	90 %	NNW	13 mph	23 mph	28.54 in	0.1 in	Light Rain
4:54 PM	60 °F	57 °F	90 %	NW	9 mph	0 mph	28.54 in	0.1 in	Light Rain
5:20 PM	60 °F	57 °F	90 %	NW	10 mph	0 mph	28.55 in	0.0 in	Light Rain
5:50 PM	61 °F	57 °F	88 %	NW	9 mph	0 mph	28.55 in	0.1 in	Light Rain
5:54 PM	60 °F	57 °F	90 %	NW	10 mph	0 mph	28.55 in	0.1 in	Light Rain
6:27 PM	59 °F	57 °F	93 %	WNW	9 mph	0 mph	28.56 in	0.0 in	Light Rain
6:47 PM	59 °F	56 °F	90 %	NW	7 mph	0 mph	28.56 in	0.1 in	Heavy Rain
6:54 PM	59 °F	56 °F	90 %	NW	8 mph	0 mph	28.56 in	0.1 in	Heavy Rain
7:02 PM	58 °F	56 °F	93 %	WNW	6 mph	0 mph	28.57 in	0.1 in	Heavy Rain
7:28 PM	58 °F	56 °F	93 %	NNE	8 mph	0 mph	28.58 in	0.2 in	Light Rain
7:42 PM	58 °F	56 °F	93 %	NNE	7 mph	0 mph	28.58 in	0.2 in	Light Rain
7:50 PM	57 °F	55 °F	94 %	NE	9 mph	0 mph	28.58 in	0.2 in	Light Rain
7:54 PM	58 °F	56 °F	93 %	NNE	7 mph	0 mph	28.58 in	0.2 in	Light Rain
8:15 PM	57 °F	56 °F	96 %	NNE	8 mph	0 mph	28.59 in	0.0 in	Light Rain
8:26 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.59 in	0.0 in	Light Rain
8:36 PM	57 °F	55 °F	93 %	NNE	7 mph	0 mph	28.60 in	0.0 in	Light Rain
8:54 PM	57 °F	55 °F	93 %	N	8 mph	0 mph	28.60 in	0.0 in	Light Rain
9:23 PM	57 °F	55 °F	93 %	N	6 mph	0 mph	28.61 in	0.0 in	Light Rain
9:54 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.62 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
10:21 PM	57 °F	55 °F	93 %	N	6 mph	0 mph	28.63 in	0.0 in	Light Rain
10:54 PM	57 °F	55 °F	93 %	N	8 mph	0 mph	28.63 in	0.0 in	Light Rain
11:01 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.63 in	0.0 in	Light Rain
11:18 PM	57 °F	54 °F	89 %	NNW	6 mph	0 mph	28.63 in	0.0 in	Cloudy
11:37 PM	57 °F	55 °F	93 %	NW	6 mph	0 mph	28.64 in	0.0 in	Light Rain
11:46 PM	57 °F	55 °F	93 %	NW	8 mph	0 mph	28.63 in	0.0 in	Light Rain
11:54 PM	57 °F	55 °F	93 %	NW	7 mph	0 mph	28.63 in	0.0 in	Light Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Q 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Jared Oliver (Sr. Ops)			
Person(s) / Title(s) examining sample: Amanda Coffuire (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 6/17/2023 11:40AM	**Date & Time Sample Collected: 6/17/2023 7:15PM**	**Date & Time Sample Examined: 6/20/23 7:15AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.38 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 8/4 Pale Yellow**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): soil specs**		
Suspended Solids	**No ☐ Yes ☒ (describe): bark piece**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed August 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

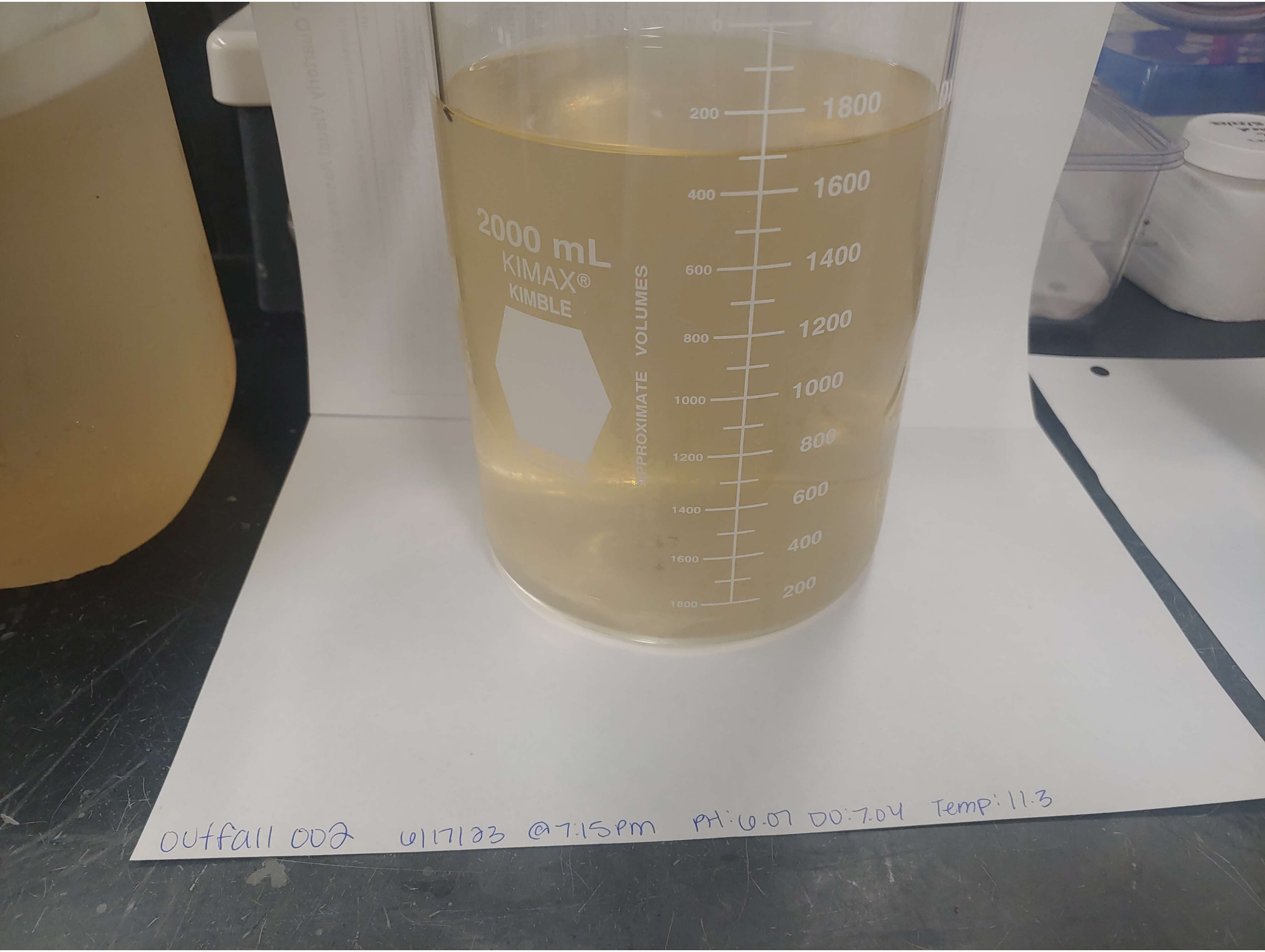
Outfall 2 Treatment Sector T

Sampling Date: Saturday, June 17, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.1	6/20/2023		AC	SU	150.2	UB
Dissolved Oxygen	7.0	6/20/2023		AC	mg/L	360.1	UB
Dissolved Oxygen	78.6	6/20/2023		AC	%	360.1	UB
Temperature	11.3	6/20/2023		AC	deg. C	SM 2550	UB
TSS	3.6	6/20/23	6/21/23	BP	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	34.5	06/20/2023		DH	mg/L	8000	UB


2000 mL
KIMAX®
KIMBLE
APPROXIMATE VOLUMES
Outfall 002 6/17/23 @7:15pm pH: 6.07 DO: 7.04 Temp: 11.3

Daily Observations June17, 2023

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	63 °F	60 °F	90 %	CALM	0 mph	0 mph	28.61 in	0.0 in	Mostly Cloudy
1:16 AM	62 °F	60 °F	93 %	CALM	0 mph	0 mph	28.61 in	0.0 in	Partly Cloudy
1:54 AM	62 °F	60 °F	93 %	NNE	3 mph	0 mph	28.59 in	0.0 in	Mostly Cloudy
2:34 AM	62 °F	59 °F	90 %	NE	6 mph	0 mph	28.58 in	0.0 in	Mostly Cloudy
2:52 AM	61 °F	59 °F	94 %	NNE	6 mph	0 mph	28.58 in	0.0 in	Cloudy
2:54 AM	61 °F	59 °F	93 %	NNE	6 mph	0 mph	28.58 in	0.0 in	Cloudy
3:54 AM	60 °F	58 °F	93 %	NNE	3 mph	0 mph	28.57 in	0.0 in	Fair
4:54 AM	60 °F	58 °F	93 %	NE	3 mph	0 mph	28.57 in	0.0 in	Mostly Cloudy
5:41 AM	60 °F	58 °F	93 %	N	3 mph	0 mph	28.57 in	0.0 in	Cloudy
5:52 AM	61 °F	57 °F	88 %	N	3 mph	0 mph	28.58 in	0.0 in	Cloudy
5:54 AM	60 °F	58 °F	93 %	NNE	3 mph	0 mph	28.58 in	0.0 in	Cloudy
6:54 AM	60 °F	58 °F	93 %	NNE	5 mph	0 mph	28.56 in	0.0 in	Cloudy
7:54 AM	61 °F	58 °F	90 %	N	5 mph	0 mph	28.56 in	0.0 in	Cloudy
8:10 AM	62 °F	58 °F	86 %	NNW	5 mph	0 mph	28.56 in	0.0 in	Cloudy
8:29 AM	62 °F	57 °F	84 %	CALM	0 mph	0 mph	28.57 in	0.0 in	Cloudy
8:54 AM	63 °F	58 °F	84 %	CALM	0 mph	0 mph	28.57 in	0.0 in	Cloudy
9:02 AM	62 °F	58 °F	86 %	NE	5 mph	0 mph	28.57 in	0.0 in	Cloudy
9:54 AM	63 °F	57 °F	81 %	N	5 mph	0 mph	28.57 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
10:04 AM	63 °F	57 °F	81 %	NNE	3 mph	0 mph	28.57 in	0.0 in	Cloudy
10:37 AM	64 °F	57 °F	78 %	CALM	0 mph	0 mph	28.56 in	0.0 in	Cloudy
10:54 AM	65 °F	57 °F	75 %	CALM	0 mph	0 mph	28.55 in	0.0 in	Cloudy
11:40 AM	66 °F	57 °F	73 %	NW	5 mph	0 mph	28.55 in	0.0 in	Light Rain
11:54 AM	64 °F	57 °F	78 %	WNW	13 mph	0 mph	28.54 in	0.0 in	Cloudy
12:17 PM	63 °F	57 °F	81 %		0 mph	0 mph	28.54 in	0.0 in	N/A
12:54 PM	65 °F	57 °F	75 %	NNW	9 mph	0 mph	28.54 in	0.0 in	Mostly Cloudy
1:11 PM	64 °F	58 °F	80 %	NW	10 mph	0 mph	28.53 in	0.0 in	T-Storm
1:54 PM	64 °F	58 °F	80 %	NNW	5 mph	0 mph	28.53 in	0.0 in	Thunder in the Vicinity
2:04 PM	64 °F	58 °F	80 %	CALM	0 mph	0 mph	28.53 in	0.0 in	Light Rain
2:18 PM	63 °F	59 °F	87 %	ENE	5 mph	0 mph	28.53 in	0.0 in	Cloudy
2:35 PM	62 °F	59 °F	90 %	NE	7 mph	0 mph	28.53 in	0.0 in	Rain
2:38 PM	61 °F	59 °F	93 %	NNE	6 mph	0 mph	28.53 in	0.1 in	Heavy Rain
2:45 PM	59 °F	57 °F	93 %	WNW	13 mph	21 mph	28.54 in	0.3 in	Heavy Rain
2:54 PM	59 °F	57 °F	93 %	NNW	8 mph	0 mph	28.53 in	0.7 in	Heavy Rain
3:01 PM	60 °F	57 °F	90 %	NNW	8 mph	0 mph	28.54 in	0.1 in	Heavy Rain
3:11 PM	60 °F	57 °F	90 %	NNW	8 mph	0 mph	28.54 in	0.1 in	Light Rain
3:31 PM	60 °F	57 °F	90 %	NW	14 mph	23 mph	28.55 in	0.1 in	Light Rain
3:42 PM	60 °F	57 °F	90 %	NNW	13 mph	25 mph	28.54 in	0.1 in	Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
3:54 PM	60 °F	57 °F	90 %	NNW	13 mph	23 mph	28.54 in	0.1 in	Light Rain
4:54 PM	60 °F	57 °F	90 %	NW	9 mph	0 mph	28.54 in	0.1 in	Light Rain
5:20 PM	60 °F	57 °F	90 %	NW	10 mph	0 mph	28.55 in	0.0 in	Light Rain
5:50 PM	61 °F	57 °F	88 %	NW	9 mph	0 mph	28.55 in	0.1 in	Light Rain
5:54 PM	60 °F	57 °F	90 %	NW	10 mph	0 mph	28.55 in	0.1 in	Light Rain
6:27 PM	59 °F	57 °F	93 %	WNW	9 mph	0 mph	28.56 in	0.0 in	Light Rain
6:47 PM	59 °F	56 °F	90 %	NW	7 mph	0 mph	28.56 in	0.1 in	Heavy Rain
6:54 PM	59 °F	56 °F	90 %	NW	8 mph	0 mph	28.56 in	0.1 in	Heavy Rain
7:02 PM	58 °F	56 °F	93 %	WNW	6 mph	0 mph	28.57 in	0.1 in	Heavy Rain
7:28 PM	58 °F	56 °F	93 %	NNE	8 mph	0 mph	28.58 in	0.2 in	Light Rain
7:42 PM	58 °F	56 °F	93 %	NNE	7 mph	0 mph	28.58 in	0.2 in	Light Rain
7:50 PM	57 °F	55 °F	94 %	NE	9 mph	0 mph	28.58 in	0.2 in	Light Rain
7:54 PM	58 °F	56 °F	93 %	NNE	7 mph	0 mph	28.58 in	0.2 in	Light Rain
8:15 PM	57 °F	56 °F	96 %	NNE	8 mph	0 mph	28.59 in	0.0 in	Light Rain
8:26 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.59 in	0.0 in	Light Rain
8:36 PM	57 °F	55 °F	93 %	NNE	7 mph	0 mph	28.60 in	0.0 in	Light Rain
8:54 PM	57 °F	55 °F	93 %	N	8 mph	0 mph	28.60 in	0.0 in	Light Rain
9:23 PM	57 °F	55 °F	93 %	N	6 mph	0 mph	28.61 in	0.0 in	Light Rain
9:54 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.62 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
10:21 PM	57 °F	55 °F	93 %	N	6 mph	0 mph	28.63 in	0.0 in	Light Rain
10:54 PM	57 °F	55 °F	93 %	N	8 mph	0 mph	28.63 in	0.0 in	Light Rain
11:01 PM	57 °F	55 °F	93 %	N	7 mph	0 mph	28.63 in	0.0 in	Light Rain
11:18 PM	57 °F	54 °F	89 %	NNW	6 mph	0 mph	28.63 in	0.0 in	Cloudy
11:37 PM	57 °F	55 °F	93 %	NW	6 mph	0 mph	28.64 in	0.0 in	Light Rain
11:46 PM	57 °F	55 °F	93 %	NW	8 mph	0 mph	28.63 in	0.0 in	Light Rain
11:54 PM	57 °F	55 °F	93 %	NW	7 mph	0 mph	28.63 in	0.0 in	Light Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Q 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Fernanda Munari (Lab Tech) & Dennis Lowe (Reg Compliance Engineer)			
Person(s) / Title(s) examining sample: Fernanda Munari (Lab Tech) & Amanda Coffuire (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 6/28/2023 12:52PM	**Date & Time Sample Collected: 6/28/2023 1:38PM**	**Date & Time Sample Examined: 6/28/2023 1:54PM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 0.17 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 8/4 Pale Yellow**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): soil specs**		
Suspended Solids	**No ☐ Yes ☒ (describe): bark pieces**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature

D. Date Signed August 25, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

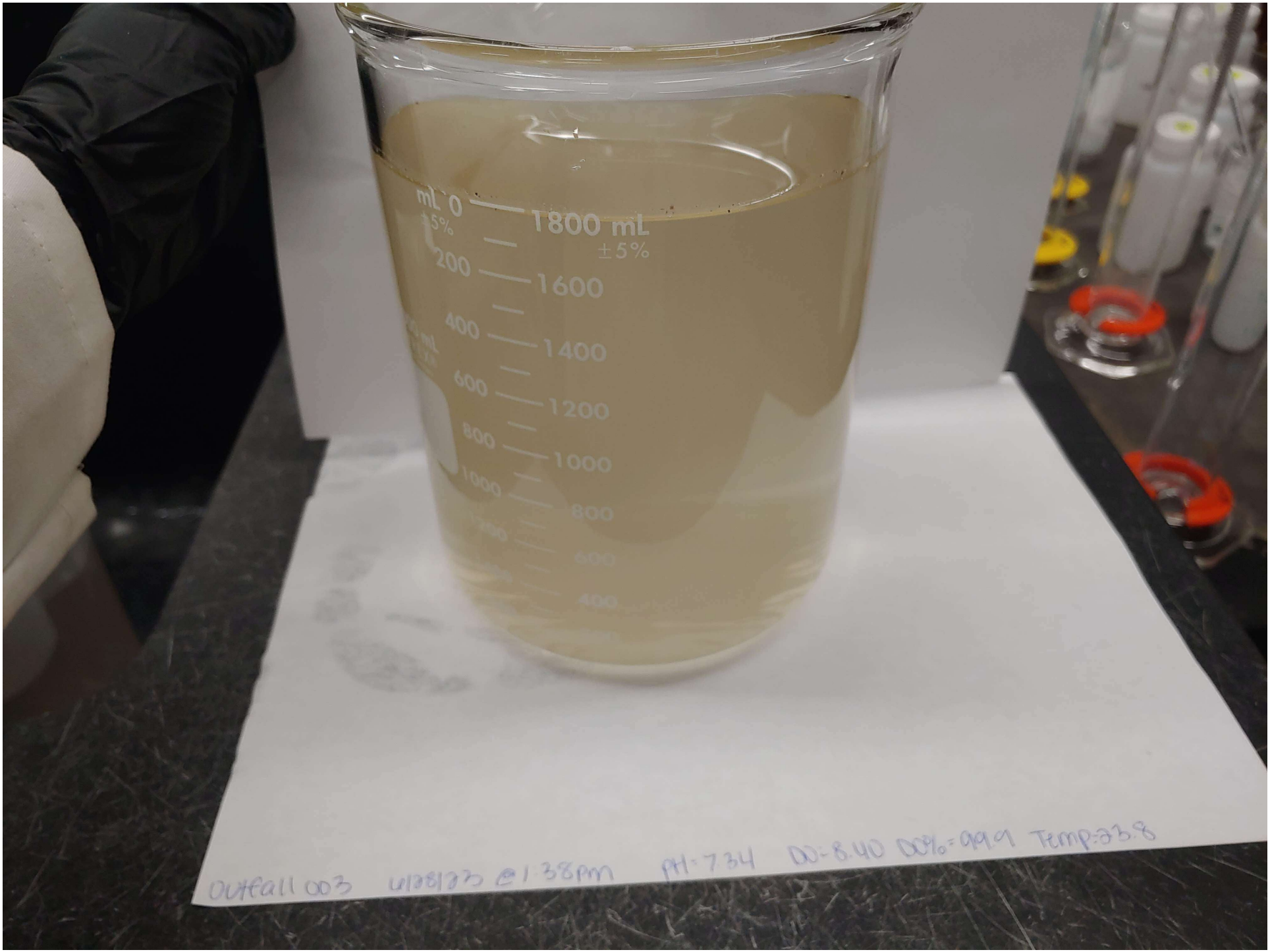
Outfall 3 Treatment Sector T

Sampling Date: Wednesday, June 28, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	7.3	6/28/2023		FM	SU	150.2	UB
Dissolved Oxygen	8.4	6/28/2023		FM	mg/L	360.1	UB
Dissolved Oxygen	99.9	6/28/2023		FM	%	360.1	UB
Temperature	23.8	6/28/2023		FM	deg. C	SM 2550	UB
TSS	31	6/29/23	6/30/23	BP	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	17.4	6/30/2023		DH	mg/L	8000	UB


mL 0
±5%
200
400
600
800
1000
1800 mL
±5%
1600
1400
1200
1000
800
600
400
Outfall 003 4/28/23 @1:38pm pH: 7.34 DO: 8.40 DO% = 99.9 Temp: 23.8

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:11 AM	65 °F	63 °F	93 %	S	7 mph	0 mph	28.76 in	0.0 in	Fair
12:23 AM	65 °F	63 °F	93 %	S	6 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy
12:54 AM	66 °F	63 °F	90 %	S	7 mph	0 mph	28.76 in	0.0 in	Cloudy
1:05 AM	66 °F	63 °F	90 %	SSW	8 mph	0 mph	28.76 in	0.0 in	Cloudy
1:24 AM	66 °F	64 °F	93 %	SSW	9 mph	18 mph	28.76 in	0.0 in	Cloudy
1:47 AM	66 °F	64 °F	93 %	S	7 mph	0 mph	28.76 in	0.0 in	Fog
1:54 AM	66 °F	65 °F	96 %	S	8 mph	0 mph	28.75 in	0.0 in	Fog
2:12 AM	66 °F	65 °F	96 %	S	8 mph	0 mph	28.75 in	0.0 in	Cloudy
2:26 AM	66 °F	65 °F	96 %	S	7 mph	0 mph	28.75 in	0.0 in	Fog
2:54 AM	67 °F	65 °F	93 %	S	7 mph	0 mph	28.74 in	0.0 in	Fog
3:28 AM	67 °F	66 °F	97 %	SE	7 mph	0 mph	28.74 in	0.0 in	Fog
3:54 AM	67 °F	66 °F	97 %	S	10 mph	0 mph	28.74 in	0.0 in	Fog
4:22 AM	67 °F	66 °F	97 %	SSE	8 mph	0 mph	28.74 in	0.0 in	Fog
4:32 AM	67 °F	66 °F	97 %	SSE	10 mph	0 mph	28.75 in	0.0 in	Cloudy
4:54 AM	68 °F	67 °F	96 %	S	10 mph	0 mph	28.75 in	0.0 in	Cloudy
5:04 AM	68 °F	67 °F	96 %	S	7 mph	0 mph	28.75 in	0.0 in	Fog
5:15 AM	68 °F	66 °F	93 %	S	8 mph	0 mph	28.75 in	0.0 in	Cloudy
5:54 AM	68 °F	67 °F	96 %	S	7 mph	0 mph	28.75 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 AM	69 °F	67 °F	93 %	SE	5 mph	0 mph	28.76 in	0.0 in	Cloudy
7:07 AM	69 °F	67 °F	93 %	SE	6 mph	0 mph	28.76 in	0.0 in	Light Rain
7:47 AM	68 °F	65 °F	90 %	SSE	14 mph	25 mph	28.76 in	0.0 in	Cloudy
7:54 AM	68 °F	65 °F	90 %	S	10 mph	0 mph	28.76 in	0.0 in	Cloudy
8:42 AM	69 °F	65 °F	87 %	SSE	8 mph	0 mph	28.76 in	0.0 in	Cloudy
8:54 AM	69 °F	65 °F	87 %	S	10 mph	0 mph	28.76 in	0.0 in	Mostly Cloudy
9:54 AM	71 °F	64 °F	78 %	S	9 mph	0 mph	28.76 in	0.0 in	Cloudy
10:54 AM	70 °F	65 °F	84 %	SSE	6 mph	0 mph	28.77 in	0.0 in	Cloudy
11:01 AM	70 °F	66 °F	87 %	SSE	9 mph	0 mph	28.77 in	0.0 in	Cloudy
11:54 AM	71 °F	68 °F	90 %	VAR	6 mph	0 mph	28.76 in	0.0 in	Cloudy
12:52 PM	70 °F	66 °F	88 %	S	12 mph	0 mph	28.76 in	0.1 in	Heavy Rain
12:54 PM	69 °F	66 °F	90 %	S	10 mph	0 mph	28.76 in	0.1 in	Heavy Rain
1:01 PM	68 °F	66 °F	93 %	S	5 mph	0 mph	28.75 in	0.1 in	Heavy Rain
1:08 PM	68 °F	66 °F	93 %	S	6 mph	0 mph	28.75 in	0.3 in	Heavy Rain
1:20 PM	70 °F	68 °F	93 %	SSW	6 mph	0 mph	28.75 in	0.4 in	Cloudy
1:22 PM	70 °F	68 °F	93 %	SW	6 mph	0 mph	28.75 in	0.4 in	Cloudy
1:39 PM	70 °F	68 °F	93 %	VAR	3 mph	0 mph	28.75 in	0.4 in	Light Rain
1:54 PM	73 °F	70 °F	90 %	SSW	8 mph	0 mph	28.74 in	0.4 in	Light Rain
2:10 PM	73 °F	68 °F	84 %	SSW	12 mph	0 mph	28.74 in	0.0 in	Thunder in the Vicinity

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:15 PM	73 °F	69 °F	87 %	SSW	7 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
2:45 PM	75 °F	68 °F	79 %	S	12 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
2:52 PM	75 °F	70 °F	83 %	S	10 mph	0 mph	28.73 in	0.0 in	Partly Cloudy
2:54 PM	75 °F	69 °F	82 %	SSW	9 mph	0 mph	28.73 in	0.0 in	Partly Cloudy
3:27 PM	76 °F	67 °F	74 %	SSW	8 mph	0 mph	28.74 in	0.0 in	Thunder in the Vicinity
3:52 PM	73 °F	68 °F	83 %	WSW	3 mph	0 mph	28.74 in	0.0 in	Light Rain
3:53 PM	74 °F	68 °F	82 %	W	3 mph	0 mph	28.74 in	0.0 in	Light Rain with Thunder
4:14 PM	71 °F	67 °F	87 %	SSW	8 mph	0 mph	28.73 in	0.1 in	Light Rain with Thunder
4:22 PM	71 °F	66 °F	84 %	S	7 mph	0 mph	28.73 in	0.1 in	Light Rain with Thunder
4:54 PM	72 °F	68 °F	87 %	S	5 mph	0 mph	28.74 in	0.1 in	Thunder
5:03 PM	73 °F	67 °F	81 %	S	6 mph	0 mph	28.74 in	0.0 in	Fair
5:52 PM	73 °F	66 °F	78 %	WSW	5 mph	0 mph	28.74 in	0.0 in	Thunder in the Vicinity
5:54 PM	73 °F	67 °F	81 %	WSW	5 mph	0 mph	28.74 in	0.0 in	Thunder in the Vicinity
6:01 PM	73 °F	67 °F	81 %	W	5 mph	0 mph	28.75 in	0.0 in	Thunder in the Vicinity
6:14 PM	72 °F	67 °F	84 %	WNW	9 mph	0 mph	28.75 in	0.0 in	Thunder
6:31 PM	70 °F	67 °F	90 %	NNW	9 mph	0 mph	28.76 in	0.0 in	T-Storm
6:51 PM	66 °F	63 °F	88 %	NNW	9 mph	0 mph	28.78 in	0.3 in	T-Storm
6:54 PM	67 °F	64 °F	90 %	NNW	9 mph	0 mph	28.78 in	0.3 in	T-Storm
6:56 PM	66 °F	63 °F	90 %	SW	8 mph	0 mph	28.78 in	0.0 in	T-Storm

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
7:54 PM	65 °F	63 °F	93 %	WSW	9 mph	0 mph	28.78 in	0.1 in	Light Rain
8:54 PM	65 °F	63 °F	93 %	WSW	8 mph	0 mph	28.80 in	0.0 in	Cloudy
9:32 PM	66 °F	64 °F	93 %	WSW	9 mph	0 mph	28.81 in	0.0 in	Light Rain
9:54 PM	66 °F	64 °F	93 %	WSW	7 mph	0 mph	28.82 in	0.0 in	Cloudy
10:11 PM	66 °F	64 °F	93 %	SW	6 mph	0 mph	28.83 in	0.0 in	Cloudy
10:54 PM	66 °F	64 °F	93 %	W	6 mph	0 mph	28.82 in	0.0 in	Cloudy
11:54 PM	66 °F	64 °F	93 %	W	9 mph	0 mph	28.82 in	0.0 in	Mostly Cloudy

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MA 0102369**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 2nd Quarter 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: No sample			
Person(s) / Title(s) examining sample: No sample			
Date & Time Storm or Snowmelt Began:	**Date & Time Sample Collected:**	**Date & Time Sample Examined:**	
Nature of Discharge: Rainfall ☐ Snowmelt ☐			
Rainfall Amount:	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☐ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☐ (describe):**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☐ (describe):**		
Suspended Solids	**No ☐ Yes ☐ (describe):**		
Oil Sheen	**None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☐ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☐ Yes ☒ (explain): All storm events for this quarter either did not have any observed measurable discharges or the discharge started within the 72 hour timeframe since the previous significant rainfall.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed August 25, 2023

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty (Sr. Lab Tech) & Dennis Lowe (Regulatory Compliance Engineer)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 7/10/2023 6:13AM	**Date & Time Sample Collected: 7/10/2023 8:24AM**	**Date & Time Sample Examined: 7/10/23 9:22AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 2.74 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): N/9 White**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): decaying leaves**		
Suspended Solids	**No ☐ Yes ☒ (describe): decaying leaves**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐
(explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed October 24, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

Outfall 1 Treatment Sector T

Sampling Date: Monday, July 10, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.0027	07/31/2023		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	0.07	07/12/2023		DH	mg/L	365.2	UB
E. coli	6,488.0	07/10/2023	07/11/2023	DP	MPN	Colilert	UB
pH	7.6	07/10/2023		DP	SU	150.2	UB
Dissolved Oxygen	8.4	07/10/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	97.7	07/10/2023		DP	%	360.1	UB
Temperature	22.0	07/10/2023		DP	deg C	SM 2550	UB
TSS	4.0	07/10/2023	7/11/2023	BP	mg/L	160.2	UB
FOG	<4.0	07/23/2023		ALPHA	mg/L	1164 A	Alpha
Turbidity	3.1	07/12/2023		ALPHA	NTU	180.1	Alpha
COD	44.0	07/10/2023		DH	mg/L	8000	UB

STORMWATER 001

7/10/23 Temp 22.0°C

pH 7.55 s.u D.O. 8.40 mg/L 97.7 % sat

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.77 in	0.0 in	Cloudy
1:02 AM	70 °F	67 °F	90 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Cloudy
1:16 AM	70 °F	68 °F	93 %	SE	7 mph	0 mph	28.77 in	0.0 in	Cloudy
1:54 AM	70 °F	67 °F	90 %	SE	10 mph	0 mph	28.78 in	0.0 in	Cloudy
2:08 AM	69 °F	67 °F	93 %	SE	8 mph	0 mph	28.78 in	0.0 in	Light Rain
2:39 AM	69 °F	67 °F	93 %	ESE	5 mph	0 mph	28.77 in	0.0 in	Light Rain
2:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Light Rain
3:54 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Cloudy
4:35 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Fog
4:47 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Light Rain
4:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:05 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:27 AM	69 °F	68 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:36 AM	69 °F	67 °F	93 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.0 in	Light Rain
5:54 AM	69 °F	67 °F	93 %	E	6 mph	0 mph	28.74 in	0.0 in	Light Rain
6:13 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.75 in	0.0 in	Rain
6:40 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.75 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 AM	68 °F	67 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
7:54 AM	68 °F	67 °F	96 %	E	8 mph	0 mph	28.75 in	0.0 in	Light Rain
8:27 AM	69 °F	67 °F	93 %	E	8 mph	16 mph	28.74 in	0.1 in	Rain
8:50 AM	70 °F	68 °F	94 %	E	9 mph	20 mph	28.73 in	0.1 in	Light Rain
8:54 AM	68 °F	67 °F	96 %	E	9 mph	0 mph	28.73 in	0.1 in	Light Rain
9:03 AM	69 °F	67 °F	93 %	E	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:16 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:30 AM	69 °F	67 °F	93 %	ESE	10 mph	0 mph	28.73 in	0.0 in	Rain
9:45 AM	69 °F	67 °F	93 %	ESE	6 mph	0 mph	28.73 in	0.1 in	Rain
9:54 AM	68 °F	67 °F	96 %	ESE	7 mph	0 mph	28.73 in	0.1 in	Rain
10:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.1 in	Rain
10:54 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.74 in	0.2 in	Rain
11:12 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.1 in	Heavy Rain
11:14 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.2 in	Heavy Rain
11:28 AM	69 °F	68 °F	96 %	E	8 mph	0 mph	28.73 in	0.3 in	Heavy Rain
11:54 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.72 in	0.6 in	Rain
12:25 PM	70 °F	68 °F	93 %	E	9 mph	0 mph	28.72 in	0.1 in	Light Rain
12:54 PM	70 °F	69 °F	97 %	SE	9 mph	0 mph	28.72 in	0.1 in	Light Rain
1:54 PM	72 °F	70 °F	93 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:01 PM	72 °F	71 °F	97 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain
2:44 PM	75 °F	71 °F	87 %	SE	8 mph	0 mph	28.71 in	0.0 in	Cloudy
2:54 PM	74 °F	71 °F	91 %	SE	8 mph	0 mph	28.70 in	0.0 in	Mostly Cloudy
3:54 PM	74 °F	70 °F	87 %	SE	9 mph	0 mph	28.69 in	0.0 in	Mostly Cloudy
3:58 PM	74 °F	70 °F	87 %	SE	8 mph	0 mph	28.69 in	0.0 in	Thunder in the Vicinity
4:18 PM	74 °F	70 °F	87 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:27 PM	73 °F	70 °F	90 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:35 PM	72 °F	70 °F	93 %	CALM	0 mph	0 mph	28.70 in	0.0 in	Light Rain
4:40 PM	71 °F	70 °F	96 %	NW	9 mph	0 mph	28.70 in	0.1 in	Heavy Rain
4:52 PM	68 °F	66 °F	94 %	N	21 mph	31 mph	28.69 in	0.9 in	Heavy T-Storm / Windy
4:54 PM	68 °F	67 °F	96 %	N	16 mph	31 mph	28.70 in	1.1 in	Heavy T-Storm
5:01 PM	68 °F	67 °F	96 %	NNW	10 mph	0 mph	28.71 in	0.3 in	T-Storm
5:05 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	Light Rain with Thunder
5:08 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	T-Storm
5:14 PM	69 °F	67 °F	93 %	N	7 mph	0 mph	28.71 in	0.3 in	Heavy T-Storm
5:25 PM	70 °F	67 °F	90 %	NNW	7 mph	0 mph	28.71 in	0.4 in	T-Storm
5:36 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Rain
5:43 PM	70 °F	67 °F	90 %	N	5 mph	0 mph	28.72 in	0.4 in	Light Rain
5:54 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Mostly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 PM	71 °F	68 °F	90 %	VAR	3 mph	0 mph	28.72 in	0.0 in	Mostly Cloudy
7:54 PM	71 °F	67 °F	87 %	NW	9 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
8:01 PM	70 °F	67 °F	90 %	NW	6 mph	0 mph	28.73 in	0.0 in	Cloudy
8:28 PM	69 °F	67 °F	93 %	WNW	3 mph	0 mph	28.72 in	0.0 in	Partly Cloudy
8:54 PM	69 °F	66 °F	90 %	W	7 mph	0 mph	28.73 in	0.0 in	Fair
9:54 PM	68 °F	65 °F	90 %	W	12 mph	0 mph	28.73 in	0.0 in	Cloudy
10:54 PM	66 °F	63 °F	90 %	W	9 mph	0 mph	28.72 in	0.0 in	Fair
11:54 PM	64 °F	62 °F	93 %	W	6 mph	0 mph	28.72 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty (Sr. Lab Tech) & Dennis Lowe (Regulatory Compliance Engineer)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 7/10/2023 6:13AM	**Date & Time Sample Collected: 7/10/2023 11:29AM**	**Date & Time Sample Examined: 7/10/23 12:00PM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 2.74 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 7/4 Pale Brown**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): seeds, duckweed, twigs**		
Settled Solids**	**No ☐ Yes ☒ (describe): particles (solids)**		
Suspended Solids	**No ☐ Yes ☒ (describe): particles (solids)**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed October 24, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

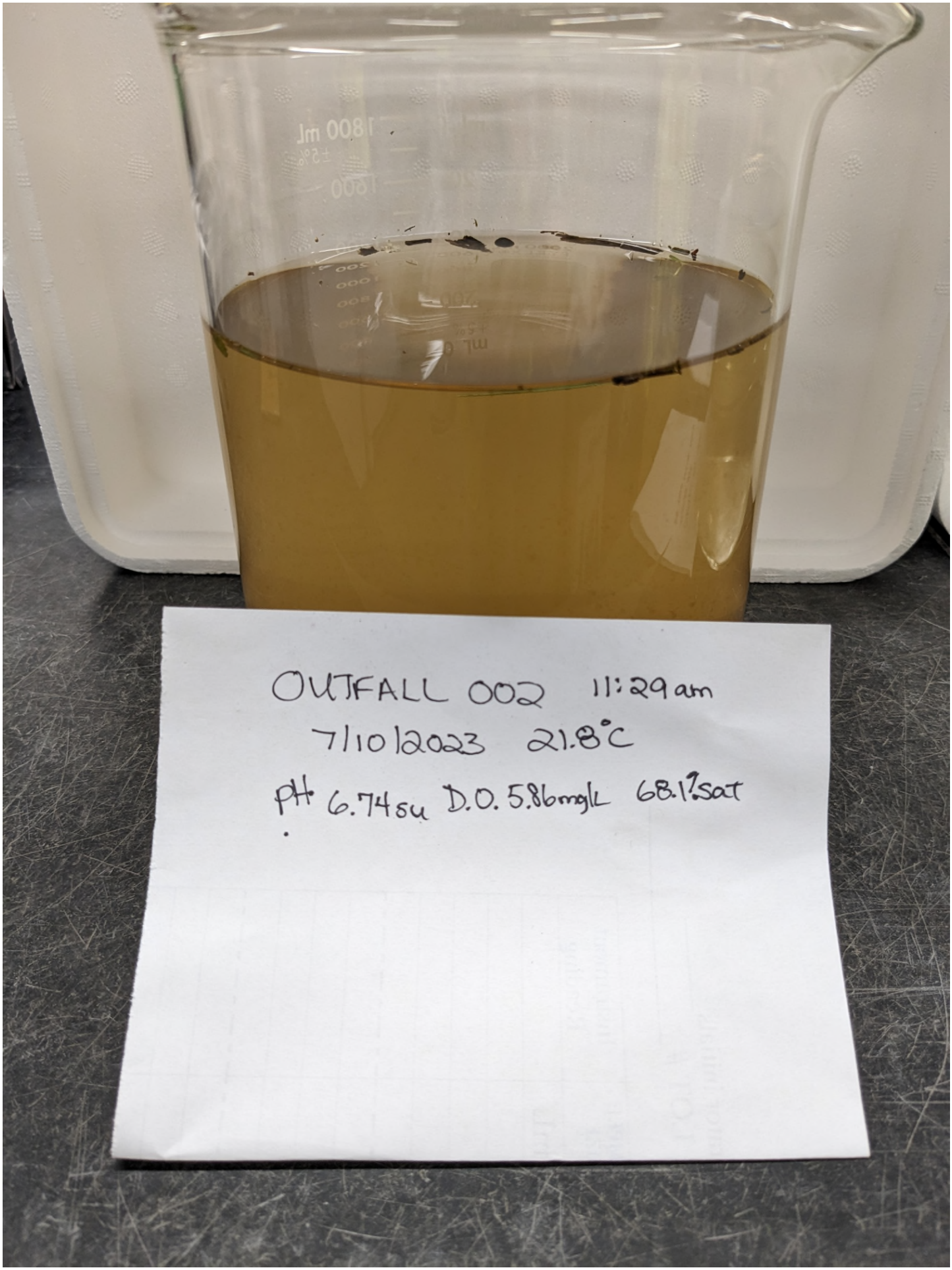
Outfall 2 Treatment Sector T

Sampling Date: Monday, July 10, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.024	07/31/2023		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	1.01	07/12/2023		DP	mg/L	365.2	UB
E.coli	24,196.0	07/10/2023	07/11/2023	DP/FM	MPN	Colilert	UB
pH	6.7	07/10/2023		DP	SU	150.2	UB
Dissolved Oxygen	5.9	07/10/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	68.1	07/10/2023		DP	%	360.1	UB
Temperature	21.8	07/10/2023		DP	deg. C	SM 2550	UB
TSS	45.0	07/10/2023	07/11/2023	BP	mg/L	160.2	UB
FOG	<4.0	07/23/2023		ALPHA	mg/L	1664 A	Alpha
Turbidity	45.0	07/12/2023		ALPHA	NTU	180.1	Alpha
COD	37.5	07/10/2023		DH	mg/L	8000	UB


OUTFALL 002 11:29 am
7/10/2023 21.8°C
pH 6.74 su D.O. 5.86 mg/L 68.1% sat

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.77 in	0.0 in	Cloudy
1:02 AM	70 °F	67 °F	90 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Cloudy
1:16 AM	70 °F	68 °F	93 %	SE	7 mph	0 mph	28.77 in	0.0 in	Cloudy
1:54 AM	70 °F	67 °F	90 %	SE	10 mph	0 mph	28.78 in	0.0 in	Cloudy
2:08 AM	69 °F	67 °F	93 %	SE	8 mph	0 mph	28.78 in	0.0 in	Light Rain
2:39 AM	69 °F	67 °F	93 %	ESE	5 mph	0 mph	28.77 in	0.0 in	Light Rain
2:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Light Rain
3:54 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Cloudy
4:35 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Fog
4:47 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Light Rain
4:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:05 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:27 AM	69 °F	68 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:36 AM	69 °F	67 °F	93 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.0 in	Light Rain
5:54 AM	69 °F	67 °F	93 %	E	6 mph	0 mph	28.74 in	0.0 in	Light Rain
6:13 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.75 in	0.0 in	Rain
6:40 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.75 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 AM	68 °F	67 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
7:54 AM	68 °F	67 °F	96 %	E	8 mph	0 mph	28.75 in	0.0 in	Light Rain
8:27 AM	69 °F	67 °F	93 %	E	8 mph	16 mph	28.74 in	0.1 in	Rain
8:50 AM	70 °F	68 °F	94 %	E	9 mph	20 mph	28.73 in	0.1 in	Light Rain
8:54 AM	68 °F	67 °F	96 %	E	9 mph	0 mph	28.73 in	0.1 in	Light Rain
9:03 AM	69 °F	67 °F	93 %	E	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:16 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:30 AM	69 °F	67 °F	93 %	ESE	10 mph	0 mph	28.73 in	0.0 in	Rain
9:45 AM	69 °F	67 °F	93 %	ESE	6 mph	0 mph	28.73 in	0.1 in	Rain
9:54 AM	68 °F	67 °F	96 %	ESE	7 mph	0 mph	28.73 in	0.1 in	Rain
10:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.1 in	Rain
10:54 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.74 in	0.2 in	Rain
11:12 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.1 in	Heavy Rain
11:14 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.2 in	Heavy Rain
11:28 AM	69 °F	68 °F	96 %	E	8 mph	0 mph	28.73 in	0.3 in	Heavy Rain
11:54 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.72 in	0.6 in	Rain
12:25 PM	70 °F	68 °F	93 %	E	9 mph	0 mph	28.72 in	0.1 in	Light Rain
12:54 PM	70 °F	69 °F	97 %	SE	9 mph	0 mph	28.72 in	0.1 in	Light Rain
1:54 PM	72 °F	70 °F	93 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:01 PM	72 °F	71 °F	97 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain
2:44 PM	75 °F	71 °F	87 %	SE	8 mph	0 mph	28.71 in	0.0 in	Cloudy
2:54 PM	74 °F	71 °F	91 %	SE	8 mph	0 mph	28.70 in	0.0 in	Mostly Cloudy
3:54 PM	74 °F	70 °F	87 %	SE	9 mph	0 mph	28.69 in	0.0 in	Mostly Cloudy
3:58 PM	74 °F	70 °F	87 %	SE	8 mph	0 mph	28.69 in	0.0 in	Thunder in the Vicinity
4:18 PM	74 °F	70 °F	87 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:27 PM	73 °F	70 °F	90 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:35 PM	72 °F	70 °F	93 %	CALM	0 mph	0 mph	28.70 in	0.0 in	Light Rain
4:40 PM	71 °F	70 °F	96 %	NW	9 mph	0 mph	28.70 in	0.1 in	Heavy Rain
4:52 PM	68 °F	66 °F	94 %	N	21 mph	31 mph	28.69 in	0.9 in	Heavy T-Storm / Windy
4:54 PM	68 °F	67 °F	96 %	N	16 mph	31 mph	28.70 in	1.1 in	Heavy T-Storm
5:01 PM	68 °F	67 °F	96 %	NNW	10 mph	0 mph	28.71 in	0.3 in	T-Storm
5:05 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	Light Rain with Thunder
5:08 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	T-Storm
5:14 PM	69 °F	67 °F	93 %	N	7 mph	0 mph	28.71 in	0.3 in	Heavy T-Storm
5:25 PM	70 °F	67 °F	90 %	NNW	7 mph	0 mph	28.71 in	0.4 in	T-Storm
5:36 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Rain
5:43 PM	70 °F	67 °F	90 %	N	5 mph	0 mph	28.72 in	0.4 in	Light Rain
5:54 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Mostly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 PM	71 °F	68 °F	90 %	VAR	3 mph	0 mph	28.72 in	0.0 in	Mostly Cloudy
7:54 PM	71 °F	67 °F	87 %	NW	9 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
8:01 PM	70 °F	67 °F	90 %	NW	6 mph	0 mph	28.73 in	0.0 in	Cloudy
8:28 PM	69 °F	67 °F	93 %	WNW	3 mph	0 mph	28.72 in	0.0 in	Partly Cloudy
8:54 PM	69 °F	66 °F	90 %	W	7 mph	0 mph	28.73 in	0.0 in	Fair
9:54 PM	68 °F	65 °F	90 %	W	12 mph	0 mph	28.73 in	0.0 in	Cloudy
10:54 PM	66 °F	63 °F	90 %	W	9 mph	0 mph	28.72 in	0.0 in	Fair
11:54 PM	64 °F	62 °F	93 %	W	6 mph	0 mph	28.72 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA**	**Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty (Sr. Lab Tech) & Dennis Lowe (Regulatory Compliance Engineer)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 7/10/2023 6:13AM	**Date & Time Sample Collected: 7/10/2023 11:20AM**	**Date & Time Sample Examined: 7/10/23 12:00PM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 2.74 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 5/1 White**		
Odor	**None ☐ Musty ☒ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): slight dirt particles**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐
(explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed October 24, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

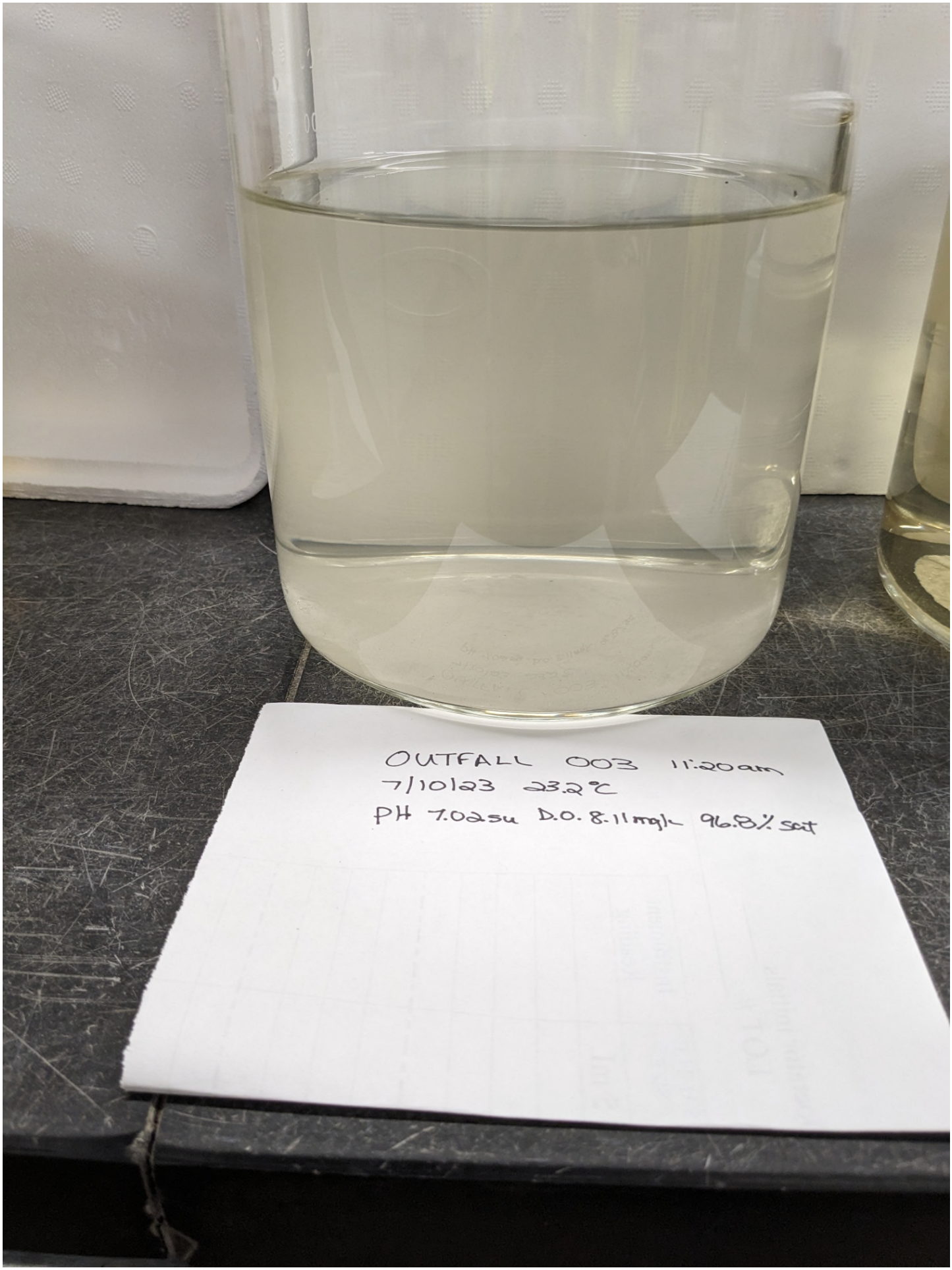
Outfall 3 Treatment Sector T

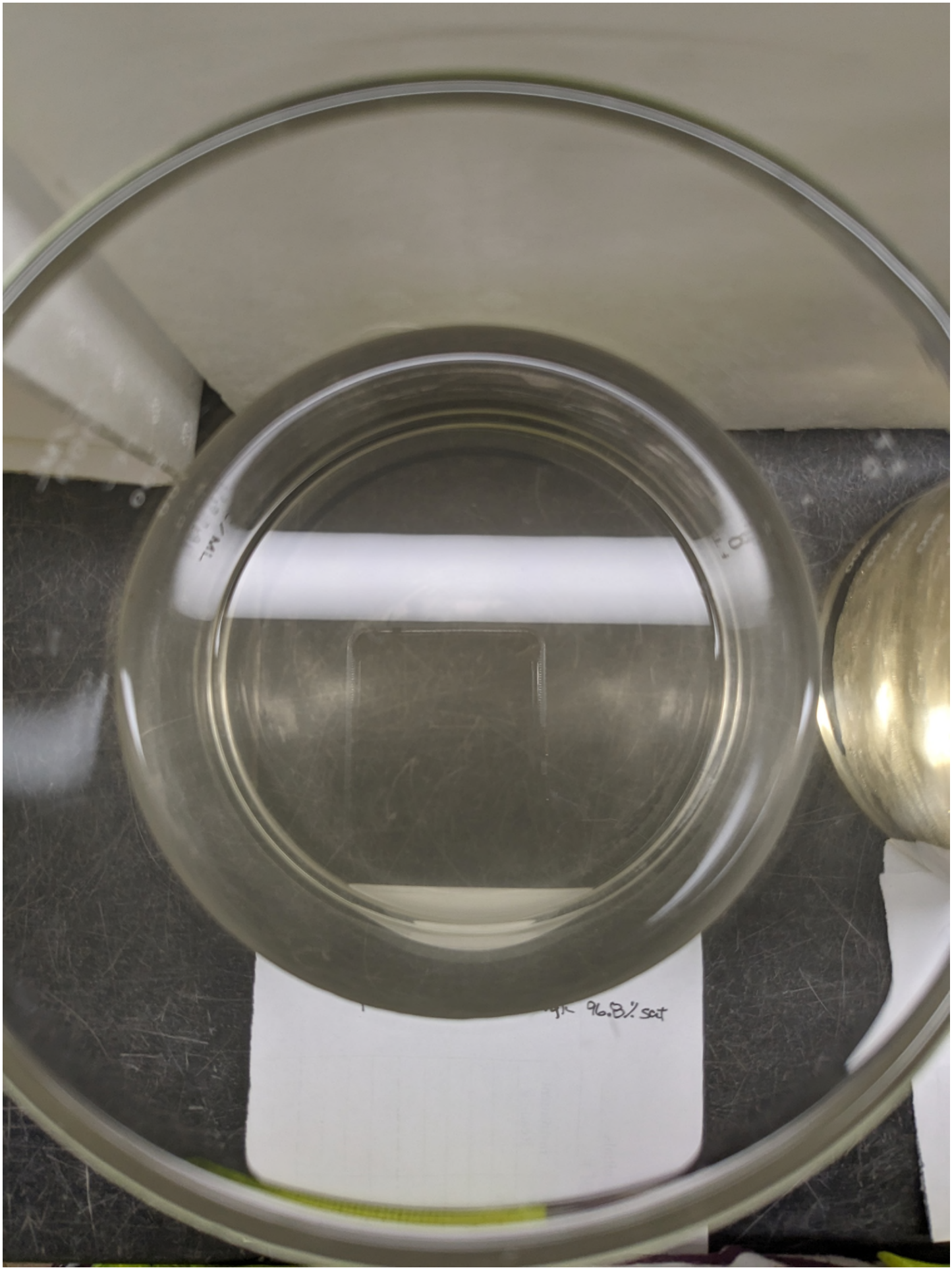
Sampling Date: Monday, July 10, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.002	07/31/2023		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	0.20	07/12/2023		DP	mg/L	365.2	UB
E. coli	15,531.0	07/10/2023	07/11/2023	DP/FM	MPN	Colilert	UB
pH	7.0	07/10/2023		DP	SU	150.2	UB
Dissolved Oxygen	8.1	07/10/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	96.8	07/10/2023		DP	%	360.1	UB
Temperature	23.2	07/10/2023		DP	deg. C	SM 2550	UB
TSS	10	07/10/2023	07/11/2023	BP	mg/L	160.2	UB
FOG	<4.0	07/23/2023		ALPHA	mg/L	1664 A	Alpha
Turbidity	6.4	07/12/2023		ALPHA	NTU	180.1	Alpha
COD	66.0	07/10/2023		DH	mg/L	8000	UB


OUTFALL 003 11:20am
7/10/23 23.2°C
PH 7.02su D.O. 8.11mg/L 96.8% sat


96.8% sat

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.77 in	0.0 in	Cloudy
1:02 AM	70 °F	67 °F	90 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Cloudy
1:16 AM	70 °F	68 °F	93 %	SE	7 mph	0 mph	28.77 in	0.0 in	Cloudy
1:54 AM	70 °F	67 °F	90 %	SE	10 mph	0 mph	28.78 in	0.0 in	Cloudy
2:08 AM	69 °F	67 °F	93 %	SE	8 mph	0 mph	28.78 in	0.0 in	Light Rain
2:39 AM	69 °F	67 °F	93 %	ESE	5 mph	0 mph	28.77 in	0.0 in	Light Rain
2:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Light Rain
3:54 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Cloudy
4:35 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Fog
4:47 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Light Rain
4:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:05 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:27 AM	69 °F	68 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:36 AM	69 °F	67 °F	93 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.0 in	Light Rain
5:54 AM	69 °F	67 °F	93 %	E	6 mph	0 mph	28.74 in	0.0 in	Light Rain
6:13 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.75 in	0.0 in	Rain
6:40 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.75 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 AM	68 °F	67 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
7:54 AM	68 °F	67 °F	96 %	E	8 mph	0 mph	28.75 in	0.0 in	Light Rain
8:27 AM	69 °F	67 °F	93 %	E	8 mph	16 mph	28.74 in	0.1 in	Rain
8:50 AM	70 °F	68 °F	94 %	E	9 mph	20 mph	28.73 in	0.1 in	Light Rain
8:54 AM	68 °F	67 °F	96 %	E	9 mph	0 mph	28.73 in	0.1 in	Light Rain
9:03 AM	69 °F	67 °F	93 %	E	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:16 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:30 AM	69 °F	67 °F	93 %	ESE	10 mph	0 mph	28.73 in	0.0 in	Rain
9:45 AM	69 °F	67 °F	93 %	ESE	6 mph	0 mph	28.73 in	0.1 in	Rain
9:54 AM	68 °F	67 °F	96 %	ESE	7 mph	0 mph	28.73 in	0.1 in	Rain
10:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.1 in	Rain
10:54 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.74 in	0.2 in	Rain
11:12 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.1 in	Heavy Rain
11:14 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.2 in	Heavy Rain
11:28 AM	69 °F	68 °F	96 %	E	8 mph	0 mph	28.73 in	0.3 in	Heavy Rain
11:54 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.72 in	0.6 in	Rain
12:25 PM	70 °F	68 °F	93 %	E	9 mph	0 mph	28.72 in	0.1 in	Light Rain
12:54 PM	70 °F	69 °F	97 %	SE	9 mph	0 mph	28.72 in	0.1 in	Light Rain
1:54 PM	72 °F	70 °F	93 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:01 PM	72 °F	71 °F	97 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain
2:44 PM	75 °F	71 °F	87 %	SE	8 mph	0 mph	28.71 in	0.0 in	Cloudy
2:54 PM	74 °F	71 °F	91 %	SE	8 mph	0 mph	28.70 in	0.0 in	Mostly Cloudy
3:54 PM	74 °F	70 °F	87 %	SE	9 mph	0 mph	28.69 in	0.0 in	Mostly Cloudy
3:58 PM	74 °F	70 °F	87 %	SE	8 mph	0 mph	28.69 in	0.0 in	Thunder in the Vicinity
4:18 PM	74 °F	70 °F	87 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:27 PM	73 °F	70 °F	90 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:35 PM	72 °F	70 °F	93 %	CALM	0 mph	0 mph	28.70 in	0.0 in	Light Rain
4:40 PM	71 °F	70 °F	96 %	NW	9 mph	0 mph	28.70 in	0.1 in	Heavy Rain
4:52 PM	68 °F	66 °F	94 %	N	21 mph	31 mph	28.69 in	0.9 in	Heavy T-Storm / Windy
4:54 PM	68 °F	67 °F	96 %	N	16 mph	31 mph	28.70 in	1.1 in	Heavy T-Storm
5:01 PM	68 °F	67 °F	96 %	NNW	10 mph	0 mph	28.71 in	0.3 in	T-Storm
5:05 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	Light Rain with Thunder
5:08 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	T-Storm
5:14 PM	69 °F	67 °F	93 %	N	7 mph	0 mph	28.71 in	0.3 in	Heavy T-Storm
5:25 PM	70 °F	67 °F	90 %	NNW	7 mph	0 mph	28.71 in	0.4 in	T-Storm
5:36 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Rain
5:43 PM	70 °F	67 °F	90 %	N	5 mph	0 mph	28.72 in	0.4 in	Light Rain
5:54 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Mostly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 PM	71 °F	68 °F	90 %	VAR	3 mph	0 mph	28.72 in	0.0 in	Mostly Cloudy
7:54 PM	71 °F	67 °F	87 %	NW	9 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
8:01 PM	70 °F	67 °F	90 %	NW	6 mph	0 mph	28.73 in	0.0 in	Cloudy
8:28 PM	69 °F	67 °F	93 %	WNW	3 mph	0 mph	28.72 in	0.0 in	Partly Cloudy
8:54 PM	69 °F	66 °F	90 %	W	7 mph	0 mph	28.73 in	0.0 in	Fair
9:54 PM	68 °F	65 °F	90 %	W	12 mph	0 mph	28.73 in	0.0 in	Cloudy
10:54 PM	66 °F	63 °F	90 %	W	9 mph	0 mph	28.72 in	0.0 in	Fair
11:54 PM	64 °F	62 °F	93 %	W	6 mph	0 mph	28.72 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 3rd Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Denise Prouty (Sr. Lab Tech) & Dennis Lowe (Regulatory Compliance Engineer)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 7/10/2023 6:13AM	**Date & Time Sample Collected: 7/10/2023 11:38AM**	**Date & Time Sample Examined: 7/10/23 12:00PM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 2.74 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 8/4 Pale Brown**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☒ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☒ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe): slight dirt particles**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐
(explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed October 24, 2023

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

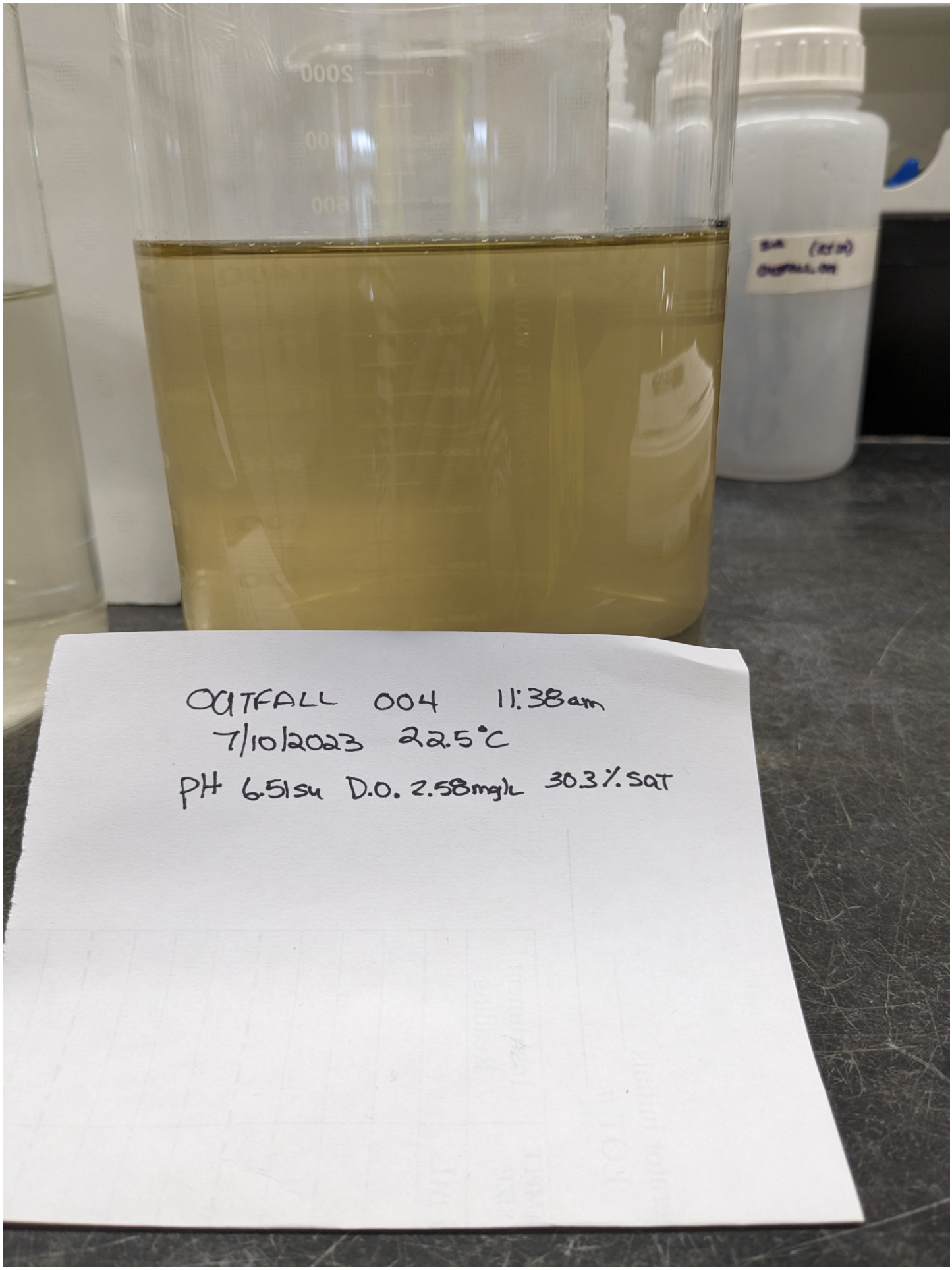
Outfall 4 Treatment Sector L

Sampling Date: Monday, July 10, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead	0.0040	07/31/2023		ALPHA	mg/L	200.8	Alpha
T. Phosphorus	0.95	07/12/2023		DP	mg/L	365.2	UB
E.coli	2,489.0	07/10/2023	7/11/2023	DP/FM	MPN	Colilert	UB
pH	6.5	07/10/2023		DP	SU	150.2	UB
Dissolved Oxygen	2.6	07/10/2023		DP	mg/L	360.1	UB
Dissolved Oxygen	30.3	07/10/2023		DP	% sat	360.1	UB
Temperature	22.5	07/10/2023		DP	deg. C	SM 2550	UB
TSS	5.2	07/10/2023	07/11/2023	BP	mg/L	160.2	UB
FOG	<4.0	07/23/2023		ALPHA	mg/L	1664 A	Alpha
Turbidity	2.8	07/12/2023		ALPHA	NTU	180.1	Alpha
COD	80.0	07/10/2023		DH	mg/L	8000	UB


OUTFALL 004 11:38am
7/10/2023 22.5°C
pH 6.51su D.O. 2.58mg/L 30.3% SAT

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.77 in	0.0 in	Cloudy
1:02 AM	70 °F	67 °F	90 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Cloudy
1:16 AM	70 °F	68 °F	93 %	SE	7 mph	0 mph	28.77 in	0.0 in	Cloudy
1:54 AM	70 °F	67 °F	90 %	SE	10 mph	0 mph	28.78 in	0.0 in	Cloudy
2:08 AM	69 °F	67 °F	93 %	SE	8 mph	0 mph	28.78 in	0.0 in	Light Rain
2:39 AM	69 °F	67 °F	93 %	ESE	5 mph	0 mph	28.77 in	0.0 in	Light Rain
2:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.77 in	0.0 in	Light Rain
3:54 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Cloudy
4:35 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Fog
4:47 AM	69 °F	67 °F	93 %	ESE	7 mph	0 mph	28.74 in	0.0 in	Light Rain
4:54 AM	69 °F	67 °F	93 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:05 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:27 AM	69 °F	68 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
5:36 AM	69 °F	67 °F	93 %	E	7 mph	0 mph	28.74 in	0.0 in	Light Rain
5:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.0 in	Light Rain
5:54 AM	69 °F	67 °F	93 %	E	6 mph	0 mph	28.74 in	0.0 in	Light Rain
6:13 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.75 in	0.0 in	Rain
6:40 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.75 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 AM	68 °F	67 °F	96 %	ESE	8 mph	0 mph	28.74 in	0.0 in	Light Rain
7:54 AM	68 °F	67 °F	96 %	E	8 mph	0 mph	28.75 in	0.0 in	Light Rain
8:27 AM	69 °F	67 °F	93 %	E	8 mph	16 mph	28.74 in	0.1 in	Rain
8:50 AM	70 °F	68 °F	94 %	E	9 mph	20 mph	28.73 in	0.1 in	Light Rain
8:54 AM	68 °F	67 °F	96 %	E	9 mph	0 mph	28.73 in	0.1 in	Light Rain
9:03 AM	69 °F	67 °F	93 %	E	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:16 AM	69 °F	67 °F	93 %	ESE	9 mph	0 mph	28.74 in	0.0 in	Light Rain
9:30 AM	69 °F	67 °F	93 %	ESE	10 mph	0 mph	28.73 in	0.0 in	Rain
9:45 AM	69 °F	67 °F	93 %	ESE	6 mph	0 mph	28.73 in	0.1 in	Rain
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10:45 AM	69 °F	68 °F	96 %	ESE	6 mph	0 mph	28.74 in	0.1 in	Rain
10:54 AM	69 °F	68 °F	96 %	ESE	7 mph	0 mph	28.74 in	0.2 in	Rain
11:12 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.1 in	Heavy Rain
11:14 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.73 in	0.2 in	Heavy Rain
11:28 AM	69 °F	68 °F	96 %	E	8 mph	0 mph	28.73 in	0.3 in	Heavy Rain
11:54 AM	69 °F	68 °F	96 %	E	7 mph	0 mph	28.72 in	0.6 in	Rain
12:25 PM	70 °F	68 °F	93 %	E	9 mph	0 mph	28.72 in	0.1 in	Light Rain
12:54 PM	70 °F	69 °F	97 %	SE	9 mph	0 mph	28.72 in	0.1 in	Light Rain
1:54 PM	72 °F	70 °F	93 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:01 PM	72 °F	71 °F	97 %	SE	8 mph	0 mph	28.71 in	0.0 in	Light Rain
2:44 PM	75 °F	71 °F	87 %	SE	8 mph	0 mph	28.71 in	0.0 in	Cloudy
2:54 PM	74 °F	71 °F	91 %	SE	8 mph	0 mph	28.70 in	0.0 in	Mostly Cloudy
3:54 PM	74 °F	70 °F	87 %	SE	9 mph	0 mph	28.69 in	0.0 in	Mostly Cloudy
3:58 PM	74 °F	70 °F	87 %	SE	8 mph	0 mph	28.69 in	0.0 in	Thunder in the Vicinity
4:18 PM	74 °F	70 °F	87 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:27 PM	73 °F	70 °F	90 %	E	6 mph	0 mph	28.69 in	0.0 in	Cloudy
4:35 PM	72 °F	70 °F	93 %	CALM	0 mph	0 mph	28.70 in	0.0 in	Light Rain
4:40 PM	71 °F	70 °F	96 %	NW	9 mph	0 mph	28.70 in	0.1 in	Heavy Rain
4:52 PM	68 °F	66 °F	94 %	N	21 mph	31 mph	28.69 in	0.9 in	Heavy T-Storm / Windy
4:54 PM	68 °F	67 °F	96 %	N	16 mph	31 mph	28.70 in	1.1 in	Heavy T-Storm
5:01 PM	68 °F	67 °F	96 %	NNW	10 mph	0 mph	28.71 in	0.3 in	T-Storm
5:05 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	Light Rain with Thunder
5:08 PM	69 °F	67 °F	93 %	NNW	8 mph	0 mph	28.71 in	0.3 in	T-Storm
5:14 PM	69 °F	67 °F	93 %	N	7 mph	0 mph	28.71 in	0.3 in	Heavy T-Storm
5:25 PM	70 °F	67 °F	90 %	NNW	7 mph	0 mph	28.71 in	0.4 in	T-Storm
5:36 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Rain
5:43 PM	70 °F	67 °F	90 %	N	5 mph	0 mph	28.72 in	0.4 in	Light Rain
5:54 PM	70 °F	67 °F	90 %	N	6 mph	0 mph	28.72 in	0.4 in	Mostly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:54 PM	71 °F	68 °F	90 %	VAR	3 mph	0 mph	28.72 in	0.0 in	Mostly Cloudy
7:54 PM	71 °F	67 °F	87 %	NW	9 mph	0 mph	28.73 in	0.0 in	Mostly Cloudy
8:01 PM	70 °F	67 °F	90 %	NW	6 mph	0 mph	28.73 in	0.0 in	Cloudy
8:28 PM	69 °F	67 °F	93 %	WNW	3 mph	0 mph	28.72 in	0.0 in	Partly Cloudy
8:54 PM	69 °F	66 °F	90 %	W	7 mph	0 mph	28.73 in	0.0 in	Fair
9:54 PM	68 °F	65 °F	90 %	W	12 mph	0 mph	28.73 in	0.0 in	Cloudy
10:54 PM	66 °F	63 °F	90 %	W	9 mph	0 mph	28.72 in	0.0 in	Fair
11:54 PM	64 °F	62 °F	93 %	W	6 mph	0 mph	28.72 in	0.0 in	Fair

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 001	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Jared Oliver (Assistant Senior Operator)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 12/3/2023 9:50 AM	**Date & Time Sample Collected: 12/3/2023 6:30 PM**	**Date & Time Sample Examined: 12/4/23 5:50 AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 0.55 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 8/2 Pale Yellow**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Seeds**		
Settled Solids**	**No ☐ Yes ☒ (describe): Fine Sediment (dirt)**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed 1/25/24

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

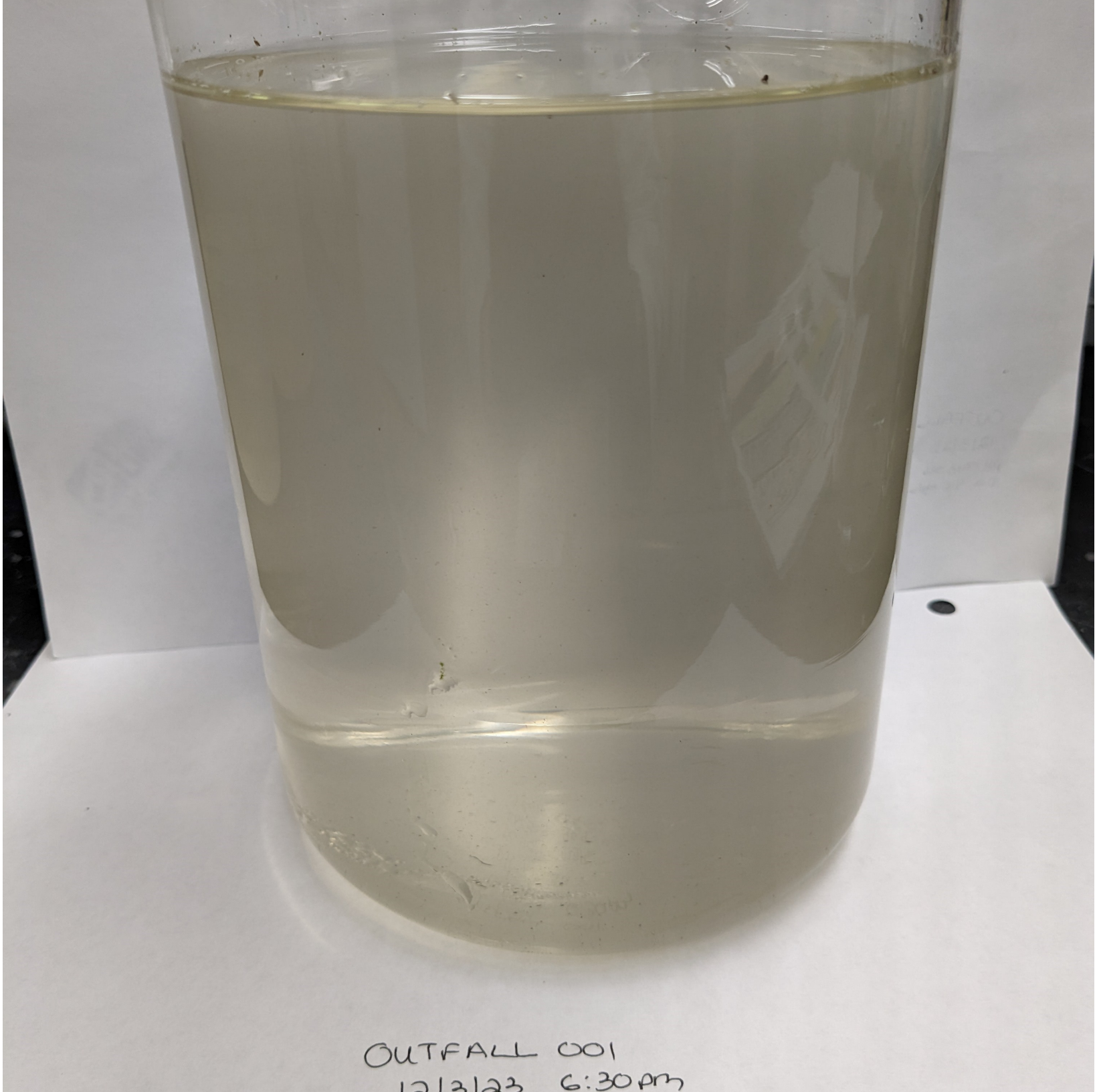
Outfall 1 Treatment Sector T

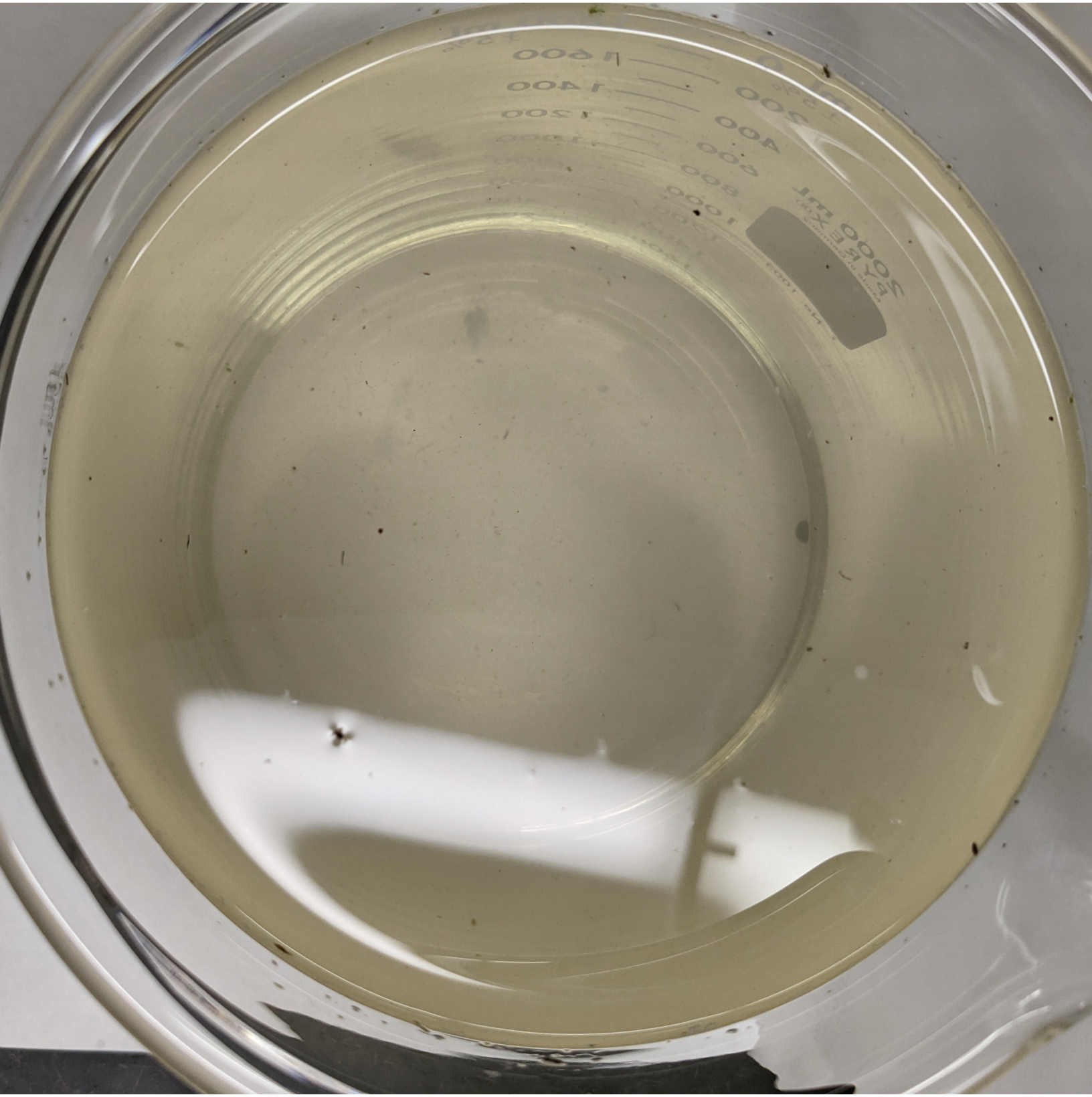
Sampling Date: Sunday, December 3, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	7.1	12/3/2023		JO	SU	150.2	UB
Dissolved Oxygen	10.7	12/3/2023		JO	mg/L	360.1	UB
Dissolved Oxygen	95.4	12/3/2023		JO	%	360.1	UB
Temperature	9.6	12/3/2023		JO	deg C	SM 2550	UB
TSS	11.2	12/04/2023	12/05/2023	FM	mg/L	160.2	UB
FOG					mg/L	1164 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	24.5	12052023		DP	mg/L	8000	UB


OUTFALL 001
12/3/23 6:30PM



Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Fog
1:07 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Mist
1:14 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Mist
1:22 AM	44 °F	42 °F	93 %	NE	5 mph	0 mph	28.94 in	0.0 in	Mist
1:54 AM	43 °F	42 °F	97 %	NE	6 mph	0 mph	28.95 in	0.0 in	Mist
2:05 AM	43 °F	42 °F	97 %	NE	6 mph	0 mph	28.94 in	0.0 in	Mist
2:47 AM	43 °F	41 °F	93 %	NE	6 mph	0 mph	28.94 in	0.0 in	Cloudy
2:54 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.93 in	0.0 in	Cloudy
3:07 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.94 in	0.0 in	Cloudy
3:24 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.93 in	0.0 in	Cloudy
3:54 AM	42 °F	40 °F	92 %	ENE	7 mph	0 mph	28.94 in	0.0 in	Cloudy
4:45 AM	42 °F	40 °F	92 %	ENE	6 mph	0 mph	28.92 in	0.0 in	Mist
4:54 AM	42 °F	40 °F	92 %	ENE	6 mph	0 mph	28.92 in	0.0 in	Mist
5:07 AM	42 °F	40 °F	92 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Fog
5:22 AM	42 °F	40 °F	92 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Fog
5:36 AM	42 °F	40 °F	92 %	ENE	10 mph	0 mph	28.92 in	0.0 in	Fog
5:49 AM	43 °F	39 °F	87 %	ENE	7 mph	0 mph	28.93 in	0.0 in	Mist
5:54 AM	42 °F	40 °F	92 %	ENE	9 mph	0 mph	28.92 in	0.0 in	Mist

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:23 AM	42 °F	40 °F	92 %	ENE	9 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
6:38 AM	41 °F	40 °F	96 %	ENE	9 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
6:50 AM	41 °F	39 °F	93 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Light Rain / Fog
6:54 AM	41 °F	40 °F	96 %	ENE	6 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
7:02 AM	41 °F	40 °F	96 %	ENE	8 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
7:54 AM	41 °F	40 °F	96 %	E	9 mph	0 mph	28.89 in	0.0 in	Light Rain / Fog
8:01 AM	41 °F	40 °F	96 %	ENE	9 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:12 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:20 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:54 AM	41 °F	40 °F	96 %		0 mph	0 mph	28.87 in	0.0 in	Light Rain / Fog
9:10 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.0 in	Light Rain / Fog
9:33 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.0 in	Light Rain
9:50 AM	41 °F	39 °F	93 %	E	10 mph	18 mph	28.88 in	0.1 in	Rain
9:54 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.1 in	Rain
10:05 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.86 in	0.0 in	Rain / Fog
10:21 AM	41 °F	39 °F	93 %	ENE	10 mph	0 mph	28.85 in	0.1 in	Rain / Fog
10:54 AM	41 °F	39 °F	93 %	ENE	9 mph	0 mph	28.82 in	0.1 in	Light Rain / Fog
11:54 AM	41 °F	40 °F	96 %	ENE	8 mph	17 mph	28.79 in	0.0 in	Light Rain / Fog
12:46 PM	41 °F	40 °F	96 %	ENE	10 mph	21 mph	28.77 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 PM	41 °F	39 °F	93 %	NE	10 mph	22 mph	28.76 in	0.1 in	Light Rain
12:59 PM	41 °F	39 °F	93 %	ENE	9 mph	22 mph	28.75 in	0.0 in	Light Rain
1:10 PM	41 °F	39 °F	93 %	ENE	13 mph	25 mph	28.75 in	0.0 in	Light Rain
1:54 PM	41 °F	39 °F	93 %	ENE	14 mph	23 mph	28.73 in	0.1 in	Rain
2:01 PM	41 °F	39 °F	93 %	NE	9 mph	23 mph	28.75 in	0.0 in	Light Rain
2:54 PM	40 °F	38 °F	93 %	NE	10 mph	23 mph	28.73 in	0.1 in	Light Rain
3:13 PM	40 °F	38 °F	93 %	NE	9 mph	24 mph	28.72 in	0.0 in	Light Rain
3:54 PM	39 °F	37 °F	93 %	NE	15 mph	29 mph	28.70 in	0.0 in	Light Rain
4:54 PM	38 °F	37 °F	97 %	ENE	9 mph	22 mph	28.68 in	0.0 in	Light Rain
5:37 PM	38 °F	37 °F	97 %	ENE	12 mph	21 mph	28.66 in	0.0 in	Light Rain
5:54 PM	37 °F	36 °F	96 %	ENE	9 mph	21 mph	28.65 in	0.0 in	Light Rain / Fog
6:12 PM	37 °F	36 °F	96 %	ENE	9 mph	18 mph	28.65 in	0.0 in	Light Rain / Fog
6:38 PM	37 °F	36 °F	96 %	NE	8 mph	20 mph	28.63 in	0.0 in	Light Rain / Fog
6:54 PM	37 °F	36 °F	96 %	VAR	6 mph	23 mph	28.63 in	0.0 in	Mist
7:20 PM	37 °F	36 °F	96 %	NE	7 mph	0 mph	28.62 in	0.0 in	Light Rain / Fog
7:32 PM	37 °F	36 °F	96 %	ENE	7 mph	0 mph	28.61 in	0.0 in	Light Rain / Fog
7:54 PM	37 °F	36 °F	96 %	ENE	9 mph	0 mph	28.59 in	0.0 in	Fog
8:34 PM	36 °F	35 °F	97 %	NE	6 mph	0 mph	28.59 in	0.0 in	Light Rain / Fog
8:44 PM	36 °F	35 °F	97 %	NE	8 mph	0 mph	28.59 in	0.0 in	Light Rain / Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
8:54 PM	36 °F	35 °F	97 %	NE	8 mph	0 mph	28.59 in	0.0 in	Light Rain / Fog
9:05 PM	36 °F	35 °F	97 %	NNE	8 mph	0 mph	28.58 in	0.0 in	Light Rain
9:16 PM	36 °F	35 °F	97 %	NNE	7 mph	0 mph	28.58 in	0.0 in	Light Rain
9:39 PM	36 °F	35 °F	97 %	N	7 mph	0 mph	28.57 in	0.0 in	Light Rain
9:45 PM	36 °F	35 °F	97 %	NNE	8 mph	0 mph	28.57 in	0.0 in	Light Rain
9:54 PM	37 °F	35 °F	93 %	N	7 mph	0 mph	28.58 in	0.0 in	Wintry Mix
10:34 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	28.56 in	0.0 in	Wintry Mix
10:47 PM	37 °F	36 °F	96 %	NE	7 mph	0 mph	28.56 in	0.0 in	Mist
10:54 PM	37 °F	36 °F	96 %	N	6 mph	0 mph	28.57 in	0.0 in	Light Rain
11:04 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	28.56 in	0.0 in	Light Rain
11:45 PM	38 °F	37 °F	97 %	NNE	6 mph	0 mph	28.56 in	0.0 in	Light Rain
11:54 PM	38 °F	37 °F	97 %	ENE	5 mph	0 mph	28.55 in	0.0 in	Light Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 002	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Jared Oliver (Assistant Senior Operator)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 12/3/2023 9:50 AM	**Date & Time Sample Collected: 12/3/2023 6:45 PM**	**Date & Time Sample Examined: 12/4/23 5:50 AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 0.55 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 7/3 Pale Yellow**		
Odor	**None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☒ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☒ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☐ Yes ☒ (describe): Fine Sediment (dirt)**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☐ Yes ☒ (describe): Slight foam**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 2/1/24

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

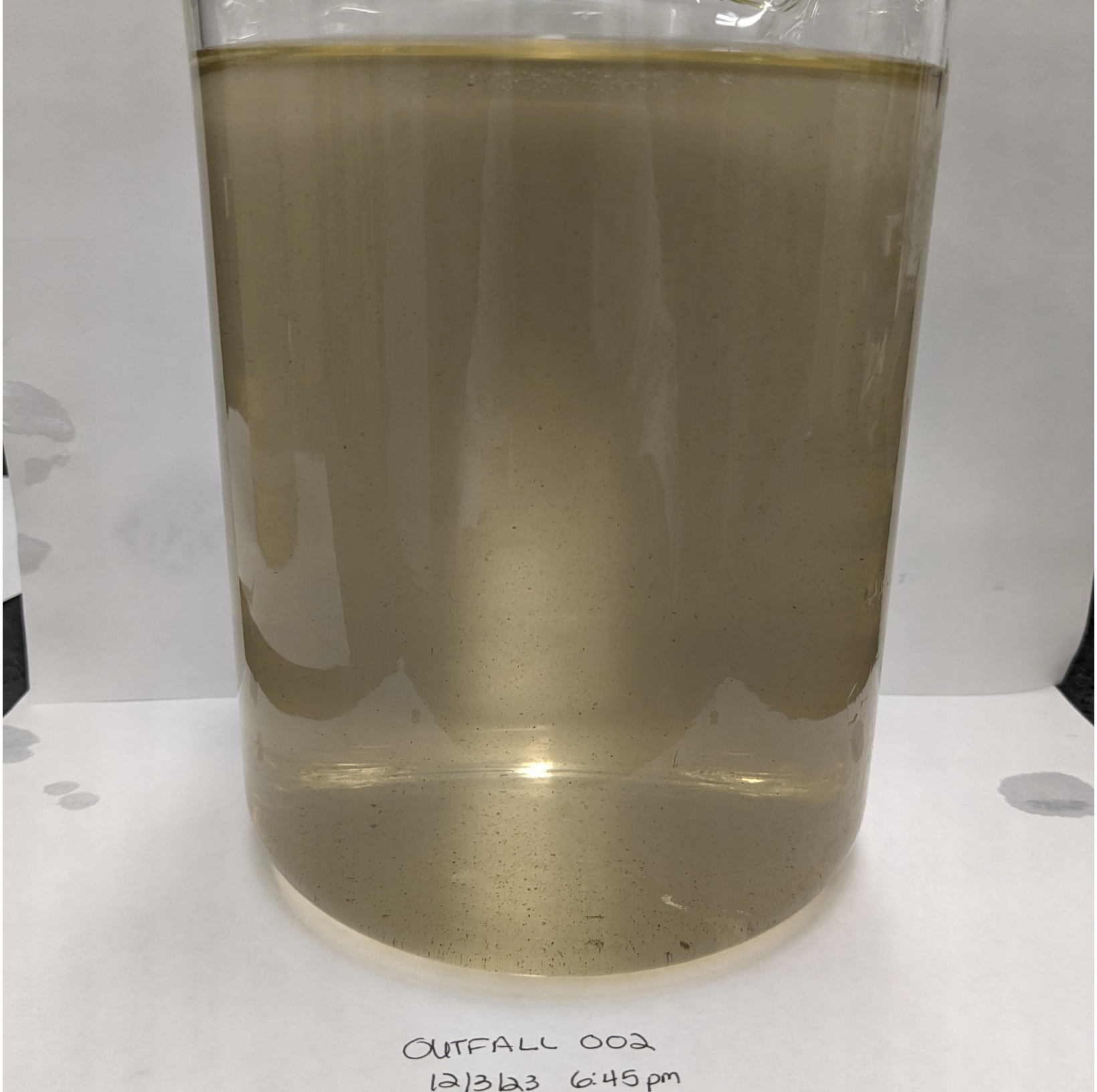
Outfall 2 Treatment Sector T

Sampling Date: Sunday, December 3, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	6.8	12/3/2023		JO	SU	150.2	UB
Dissolved Oxygen	8.9	12/3/2023		JO	mg/L	360.1	UB
Dissolved Oxygen	74.8	12/3/2023		JO	%	360.1	UB
Temperature	7.2	12/3/2023		JO	deg. C	SM 2550	UB
TSS	9.7	12/04/2023	12/05/2023	FM	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	23.1	12/05/2023		DP	mg/L	8000	UB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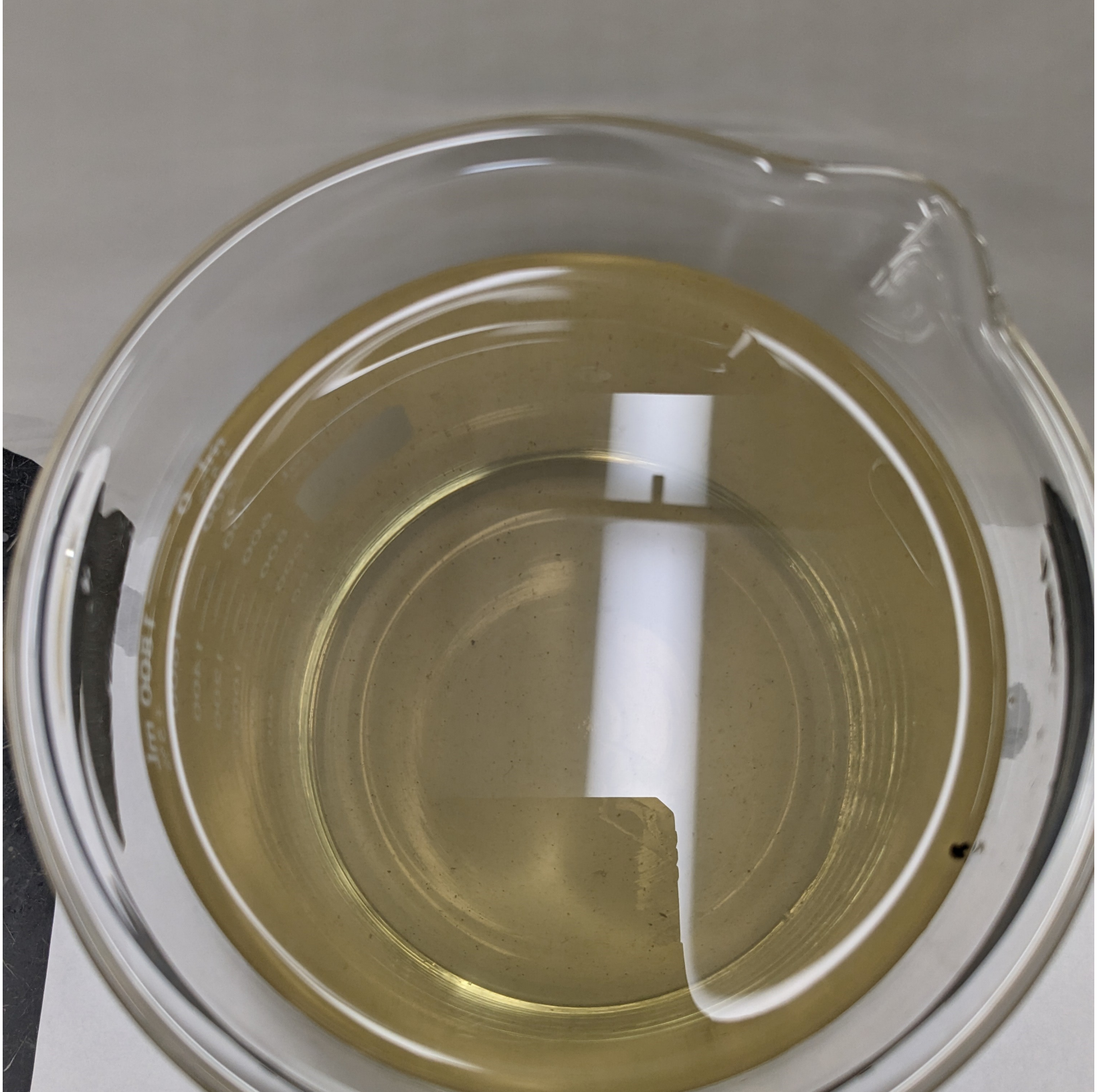
12/3/23 6:45pm



Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Fog
1:07 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Mist
1:14 AM	44 °F	42 °F	93 %	NE	3 mph	0 mph	28.94 in	0.0 in	Mist
1:22 AM	44 °F	42 °F	93 %	NE	5 mph	0 mph	28.94 in	0.0 in	Mist
1:54 AM	43 °F	42 °F	97 %	NE	6 mph	0 mph	28.95 in	0.0 in	Mist
2:05 AM	43 °F	42 °F	97 %	NE	6 mph	0 mph	28.94 in	0.0 in	Mist
2:47 AM	43 °F	41 °F	93 %	NE	6 mph	0 mph	28.94 in	0.0 in	Cloudy
2:54 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.93 in	0.0 in	Cloudy
3:07 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.94 in	0.0 in	Cloudy
3:24 AM	43 °F	41 °F	93 %	NE	7 mph	0 mph	28.93 in	0.0 in	Cloudy
3:54 AM	42 °F	40 °F	92 %	ENE	7 mph	0 mph	28.94 in	0.0 in	Cloudy
4:45 AM	42 °F	40 °F	92 %	ENE	6 mph	0 mph	28.92 in	0.0 in	Mist
4:54 AM	42 °F	40 °F	92 %	ENE	6 mph	0 mph	28.92 in	0.0 in	Mist
5:07 AM	42 °F	40 °F	92 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Fog
5:22 AM	42 °F	40 °F	92 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Fog
5:36 AM	42 °F	40 °F	92 %	ENE	10 mph	0 mph	28.92 in	0.0 in	Fog
5:49 AM	43 °F	39 °F	87 %	ENE	7 mph	0 mph	28.93 in	0.0 in	Mist
5:54 AM	42 °F	40 °F	92 %	ENE	9 mph	0 mph	28.92 in	0.0 in	Mist

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:23 AM	42 °F	40 °F	92 %	ENE	9 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
6:38 AM	41 °F	40 °F	96 %	ENE	9 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
6:50 AM	41 °F	39 °F	93 %	ENE	8 mph	0 mph	28.92 in	0.0 in	Light Rain / Fog
6:54 AM	41 °F	40 °F	96 %	ENE	6 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
7:02 AM	41 °F	40 °F	96 %	ENE	8 mph	0 mph	28.91 in	0.0 in	Light Rain / Fog
7:54 AM	41 °F	40 °F	96 %	E	9 mph	0 mph	28.89 in	0.0 in	Light Rain / Fog
8:01 AM	41 °F	40 °F	96 %	ENE	9 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:12 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:20 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.88 in	0.0 in	Light Rain / Fog
8:54 AM	41 °F	40 °F	96 %		0 mph	0 mph	28.87 in	0.0 in	Light Rain / Fog
9:10 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.0 in	Light Rain / Fog
9:33 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.0 in	Light Rain
9:50 AM	41 °F	39 °F	93 %	E	10 mph	18 mph	28.88 in	0.1 in	Rain
9:54 AM	41 °F	40 °F	96 %	E	10 mph	18 mph	28.88 in	0.1 in	Rain
10:05 AM	41 °F	40 °F	96 %	ENE	10 mph	0 mph	28.86 in	0.0 in	Rain / Fog
10:21 AM	41 °F	39 °F	93 %	ENE	10 mph	0 mph	28.85 in	0.1 in	Rain / Fog
10:54 AM	41 °F	39 °F	93 %	ENE	9 mph	0 mph	28.82 in	0.1 in	Light Rain / Fog
11:54 AM	41 °F	40 °F	96 %	ENE	8 mph	17 mph	28.79 in	0.0 in	Light Rain / Fog
12:46 PM	41 °F	40 °F	96 %	ENE	10 mph	21 mph	28.77 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:54 PM	41 °F	39 °F	93 %	NE	10 mph	22 mph	28.76 in	0.1 in	Light Rain
12:59 PM	41 °F	39 °F	93 %	ENE	9 mph	22 mph	28.75 in	0.0 in	Light Rain
1:10 PM	41 °F	39 °F	93 %	ENE	13 mph	25 mph	28.75 in	0.0 in	Light Rain
1:54 PM	41 °F	39 °F	93 %	ENE	14 mph	23 mph	28.73 in	0.1 in	Rain
2:01 PM	41 °F	39 °F	93 %	NE	9 mph	23 mph	28.75 in	0.0 in	Light Rain
2:54 PM	40 °F	38 °F	93 %	NE	10 mph	23 mph	28.73 in	0.1 in	Light Rain
3:13 PM	40 °F	38 °F	93 %	NE	9 mph	24 mph	28.72 in	0.0 in	Light Rain
3:54 PM	39 °F	37 °F	93 %	NE	15 mph	29 mph	28.70 in	0.0 in	Light Rain
4:54 PM	38 °F	37 °F	97 %	ENE	9 mph	22 mph	28.68 in	0.0 in	Light Rain
5:37 PM	38 °F	37 °F	97 %	ENE	12 mph	21 mph	28.66 in	0.0 in	Light Rain
5:54 PM	37 °F	36 °F	96 %	ENE	9 mph	21 mph	28.65 in	0.0 in	Light Rain / Fog
6:12 PM	37 °F	36 °F	96 %	ENE	9 mph	18 mph	28.65 in	0.0 in	Light Rain / Fog
6:38 PM	37 °F	36 °F	96 %	NE	8 mph	20 mph	28.63 in	0.0 in	Light Rain / Fog
6:54 PM	37 °F	36 °F	96 %	VAR	6 mph	23 mph	28.63 in	0.0 in	Mist
7:20 PM	37 °F	36 °F	96 %	NE	7 mph	0 mph	28.62 in	0.0 in	Light Rain / Fog
7:32 PM	37 °F	36 °F	96 %	ENE	7 mph	0 mph	28.61 in	0.0 in	Light Rain / Fog
7:54 PM	37 °F	36 °F	96 %	ENE	9 mph	0 mph	28.59 in	0.0 in	Fog
8:34 PM	36 °F	35 °F	97 %	NE	6 mph	0 mph	28.59 in	0.0 in	Light Rain / Fog
8:44 PM	36 °F	35 °F	97 %	NE	8 mph	0 mph	28.59 in	0.0 in	Light Rain / Fog

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
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9:05 PM	36 °F	35 °F	97 %	NNE	8 mph	0 mph	28.58 in	0.0 in	Light Rain
9:16 PM	36 °F	35 °F	97 %	NNE	7 mph	0 mph	28.58 in	0.0 in	Light Rain
9:39 PM	36 °F	35 °F	97 %	N	7 mph	0 mph	28.57 in	0.0 in	Light Rain
9:45 PM	36 °F	35 °F	97 %	NNE	8 mph	0 mph	28.57 in	0.0 in	Light Rain
9:54 PM	37 °F	35 °F	93 %	N	7 mph	0 mph	28.58 in	0.0 in	Wintry Mix
10:34 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	28.56 in	0.0 in	Wintry Mix
10:47 PM	37 °F	36 °F	96 %	NE	7 mph	0 mph	28.56 in	0.0 in	Mist
10:54 PM	37 °F	36 °F	96 %	N	6 mph	0 mph	28.57 in	0.0 in	Light Rain
11:04 PM	37 °F	36 °F	96 %	NNE	7 mph	0 mph	28.56 in	0.0 in	Light Rain
11:45 PM	38 °F	37 °F	97 %	NNE	6 mph	0 mph	28.56 in	0.0 in	Light Rain
11:54 PM	38 °F	37 °F	97 %	ENE	5 mph	0 mph	28.55 in	0.0 in	Light Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 003	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Jared Oliver (Assistant Senior Operator)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 12/10/2023 1:54 PM	**Date & Time Sample Collected: 12/10/2023 6:10 PM**	**Date & Time Sample Examined: 12/11/23 5:15 AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 1.33 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 7/2 Light Gray**		
Odor	**None ☒ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☐ Yes ☒ (describe): Grass**		
Settled Solids**	**No ☐ Yes ☒ (describe): Grass**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature _____

D. Date Signed 1/25/24

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

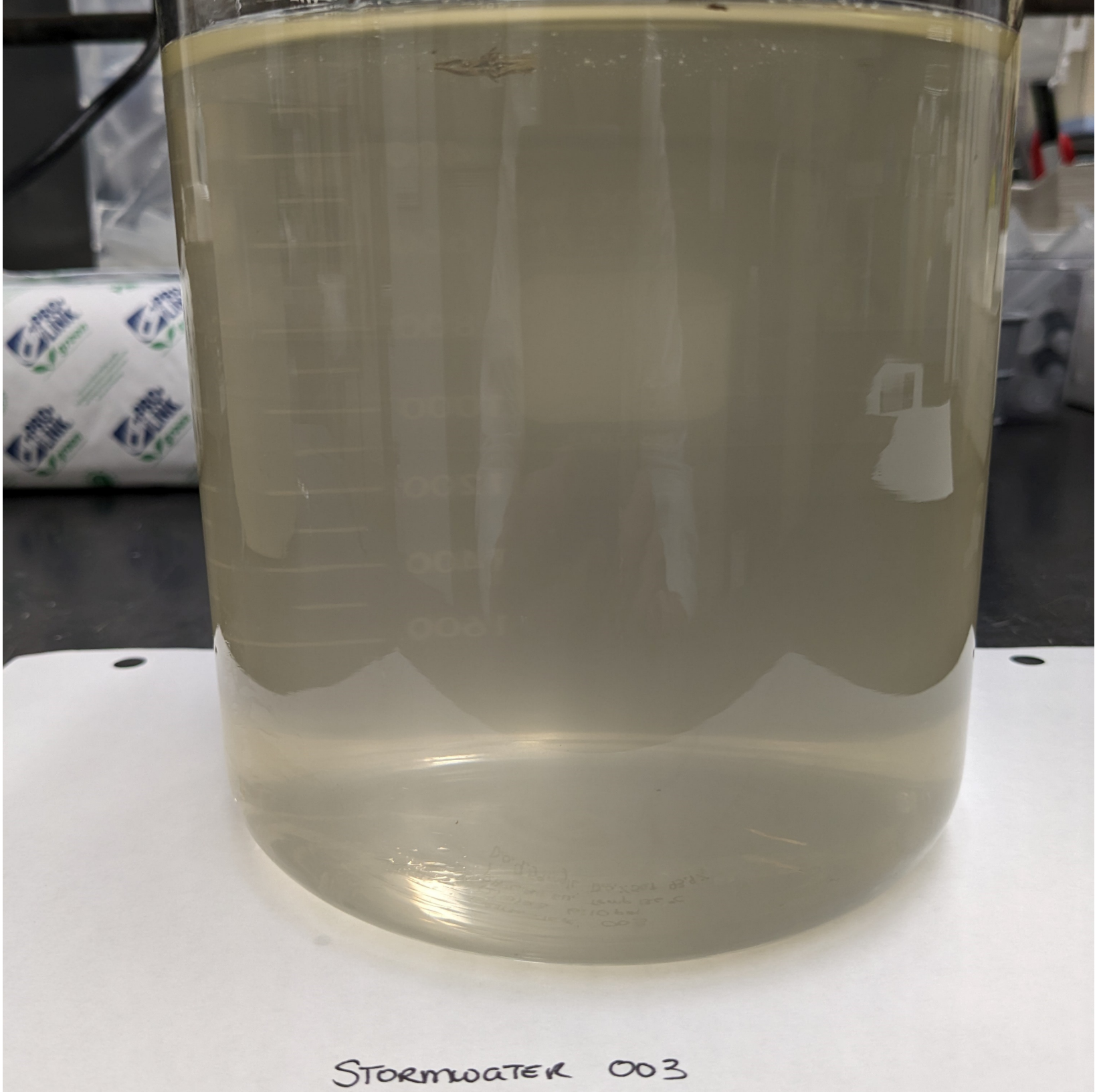
Outfall 3 Treatment Sector T

Sampling Date: Sunday, December 10, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E. coli					MPN	Colilert	UB
pH	6.8	12/10/2023		JO	SU	150.2	UB
Dissolved Oxygen	9.6	12/10/2023		JO	mg/L	360.1	UB
Dissolved Oxygen	93.9	12/10/2023		JO	%	360.1	UB
Temperature	13.6	12/10/2023		JO	deg. C	SM 2550	UB
TSS	23.8	12/11/2023	12/12/2023	DH	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	285.0	12/12/2023		DP	mg/L	8000	UB


STORMWATER 003

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:11 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	29.01 in	0.0 in	Fog
12:22 AM	45 °F	43 °F	93 %	SW	7 mph	0 mph	29.01 in	0.0 in	Fog
12:54 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	29.00 in	0.0 in	Mist
1:54 AM	44 °F	43 °F	96 %	SW	5 mph	0 mph	29.00 in	0.0 in	Mist
2:36 AM	44 °F	43 °F	96 %	SSW	6 mph	0 mph	28.99 in	0.0 in	Fog
2:46 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.98 in	0.0 in	Fog
2:54 AM	44 °F	43 °F	96 %	S	6 mph	0 mph	28.97 in	0.0 in	Fog
3:54 AM	44 °F	43 °F	96 %	S	6 mph	0 mph	28.95 in	0.0 in	Fog
4:23 AM	44 °F	43 °F	96 %	S	7 mph	0 mph	28.94 in	0.0 in	Fog
4:46 AM	44 °F	43 °F	96 %	S	7 mph	0 mph	28.94 in	0.0 in	Mist
4:54 AM	44 °F	44 °F	100 %	S	5 mph	0 mph	28.94 in	0.0 in	Mist
5:01 AM	45 °F	43 °F	93 %	SSW	6 mph	0 mph	28.94 in	0.0 in	Mist
5:09 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:27 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:35 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:43 AM	44 °F	43 °F	96 %	SSW	6 mph	0 mph	28.95 in	0.0 in	Mist
5:54 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	28.94 in	0.0 in	Mist
6:20 AM	45 °F	43 °F	93 %	SSW	8 mph	0 mph	28.93 in	0.0 in	Mist

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:46 AM	45 °F	44 °F	97 %	SSW	9 mph	0 mph	28.93 in	0.0 in	Fog
6:54 AM	45 °F	44 °F	97 %	SSW	7 mph	0 mph	28.93 in	0.0 in	Mist
7:54 AM	46 °F	44 °F	93 %	SSW	8 mph	0 mph	28.93 in	0.0 in	Mist
8:54 AM	48 °F	46 °F	93 %	SSW	10 mph	0 mph	28.92 in	0.0 in	Mist
9:51 AM	48 °F	48 °F	100 %	SSW	13 mph	0 mph	28.92 in	0.0 in	Fog
9:54 AM	49 °F	48 °F	97 %	SSW	14 mph	0 mph	28.92 in	0.0 in	Fog
10:13 AM	50 °F	49 °F	96 %	SSW	13 mph	0 mph	28.91 in	0.0 in	Fog
10:50 AM	52 °F	50 °F	94 %	SSW	12 mph	0 mph	28.89 in	0.0 in	Fog
10:54 AM	51 °F	50 °F	96 %	SSW	13 mph	0 mph	28.88 in	0.0 in	Fog
11:09 AM	52 °F	51 °F	97 %	SSW	12 mph	0 mph	28.88 in	0.0 in	Fog
11:24 AM	52 °F	51 °F	97 %	SSW	13 mph	0 mph	28.87 in	0.0 in	Fog
11:39 AM	52 °F	51 °F	97 %	SSW	13 mph	0 mph	28.86 in	0.0 in	Fog
11:54 AM	52 °F	51 °F	97 %	S	8 mph	0 mph	28.84 in	0.0 in	Fog
12:42 PM	53 °F	52 °F	96 %	S	14 mph	22 mph	28.82 in	0.0 in	Light Rain / Fog
12:50 PM	54 °F	54 °F	100 %	SSW	10 mph	21 mph	28.82 in	0.0 in	Mist
12:54 PM	54 °F	53 °F	97 %	SSW	10 mph	21 mph	28.81 in	0.0 in	Light Rain
1:01 PM	54 °F	53 °F	97 %	SSW	10 mph	0 mph	28.81 in	0.0 in	Light Rain
1:25 PM	55 °F	53 °F	93 %	SSW	12 mph	0 mph	28.80 in	0.0 in	Rain
1:54 PM	56 °F	54 °F	93 %	S	12 mph	0 mph	28.79 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:52 PM	55 °F	54 °F	94 %	S	14 mph	0 mph	28.76 in	0.0 in	Mist
2:54 PM	56 °F	54 °F	93 %	S	12 mph	0 mph	28.76 in	0.0 in	Mist
3:18 PM	56 °F	54 °F	93 %	SSW	13 mph	0 mph	28.76 in	0.0 in	Light Rain
3:33 PM	56 °F	54 °F	93 %	SSW	14 mph	0 mph	28.77 in	0.0 in	Heavy Rain
3:54 PM	56 °F	54 °F	93 %	S	12 mph	21 mph	28.76 in	0.1 in	Rain
4:50 PM	57 °F	55 °F	94 %	SSW	10 mph	23 mph	28.74 in	0.3 in	Light Rain
4:54 PM	57 °F	55 °F	93 %	SSW	13 mph	23 mph	28.74 in	0.3 in	Light Rain
5:54 PM	57 °F	55 °F	93 %	S	13 mph	0 mph	28.72 in	0.1 in	Light Rain
6:54 PM	57 °F	55 °F	93 %	SSW	16 mph	0 mph	28.69 in	0.1 in	Light Rain
7:54 PM	58 °F	56 °F	93 %	SSW	15 mph	31 mph	28.65 in	0.0 in	Light Rain
8:54 PM	59 °F	56 °F	90 %	SSW	20 mph	32 mph	28.61 in	0.0 in	Cloudy
9:03 PM	59 °F	56 °F	90 %	SSW	17 mph	31 mph	28.61 in	0.0 in	Light Rain
9:54 PM	60 °F	57 °F	90 %	SSW	25 mph	39 mph	28.58 in	0.0 in	Light Rain / Windy
10:54 PM	59 °F	56 °F	90 %	S	23 mph	35 mph	28.54 in	0.1 in	Heavy Rain / Windy
11:25 PM	59 °F	56 °F	90 %	SSW	16 mph	29 mph	28.52 in	0.3 in	Rain
11:54 PM	59 °F	56 °F	90 %	SSW	16 mph	26 mph	28.50 in	0.4 in	Rain

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Upper Blackstone WPAD		**Permit No: MAR053209**	
Street Address: 50 Route 20		**City: Millbury**	**State: MA** / **Zip Code: 01527**
Outfall Number: 004	**"Substantially Identical Outfall"? No ☒ Yes ☐ (identify substantially identical outfalls):**		
Quarter / Year: 4th Qtr 2023	**Substitute Sample?: No ☒ Yes ☐ (identify quarter/year when sample was originally scheduled to be collected):**		
Person(s) / Title(s) collecting sample: Mark Chaplin (Lab/Pretreatment Manager) and Denise Prouty (Sr. Lab Tech)			
Person(s) / Title(s) examining sample: Denise Prouty (Sr. Lab Tech)			
Date & Time Storm or Snowmelt Began: 12/10/2023 1:54 PM	**Date & Time Sample Collected: 12/11/2023 7:22 AM**	**Date & Time Sample Examined: 12/11/23 7:35 AM**	
Nature of Discharge: Rainfall ☒ Snowmelt ☐			
Rainfall Amount: 2.42 in	**Previous Storm Ended > 72 hours Before Start of This Storm? Yes ☒ No* ☐ (explain):**		
Parameter			
Color	**None ☐ Other ☒ (describe): 5Y 8/4 Olive Gray**		
Odor	**None ☐ Musty ☒ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas ☐ Solvents ☐ Other ☐ (describe):**		
Clarity	**Clear ☐ Slightly Cloudy ☐ Cloudy ☒ Opaque ☐ Other ☐ (describe):**		
Floating Solids	**No ☒ Yes ☐ (describe):**		
Settled Solids**	**No ☒ Yes ☐ (describe):**		
Suspended Solids	**No ☒ Yes ☐ (describe):**		
Oil Sheen	**None ☒ Flecks ☐ Globs ☐ Sheen ☐ Slick ☐ Other ☐ (describe):**		
Foam (gently shake sample)	**No ☒ Yes ☐ (describe):**		
Other Obvious Indicators of Storm Water Pollution	**No ☒ Yes ☐ (describe):**		

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Sampling not performed due to adverse conditions: No ☒ Yes ☐ (explain): _____

_____

Sampling not performed due to no measurable storm event occurring that resulted in a discharge during the monitoring quarter: No ☒ Yes ☐ (explain): _____

_____

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). _____

_____

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name Karla H. Sangrey

B. Title Engineer – Director - Treasurer

C. Signature Karla H. Sangrey

D. Date Signed 1/25/24

UPPER BLACKSTONE CLEAN WATER

Stormwater Laboratory Data

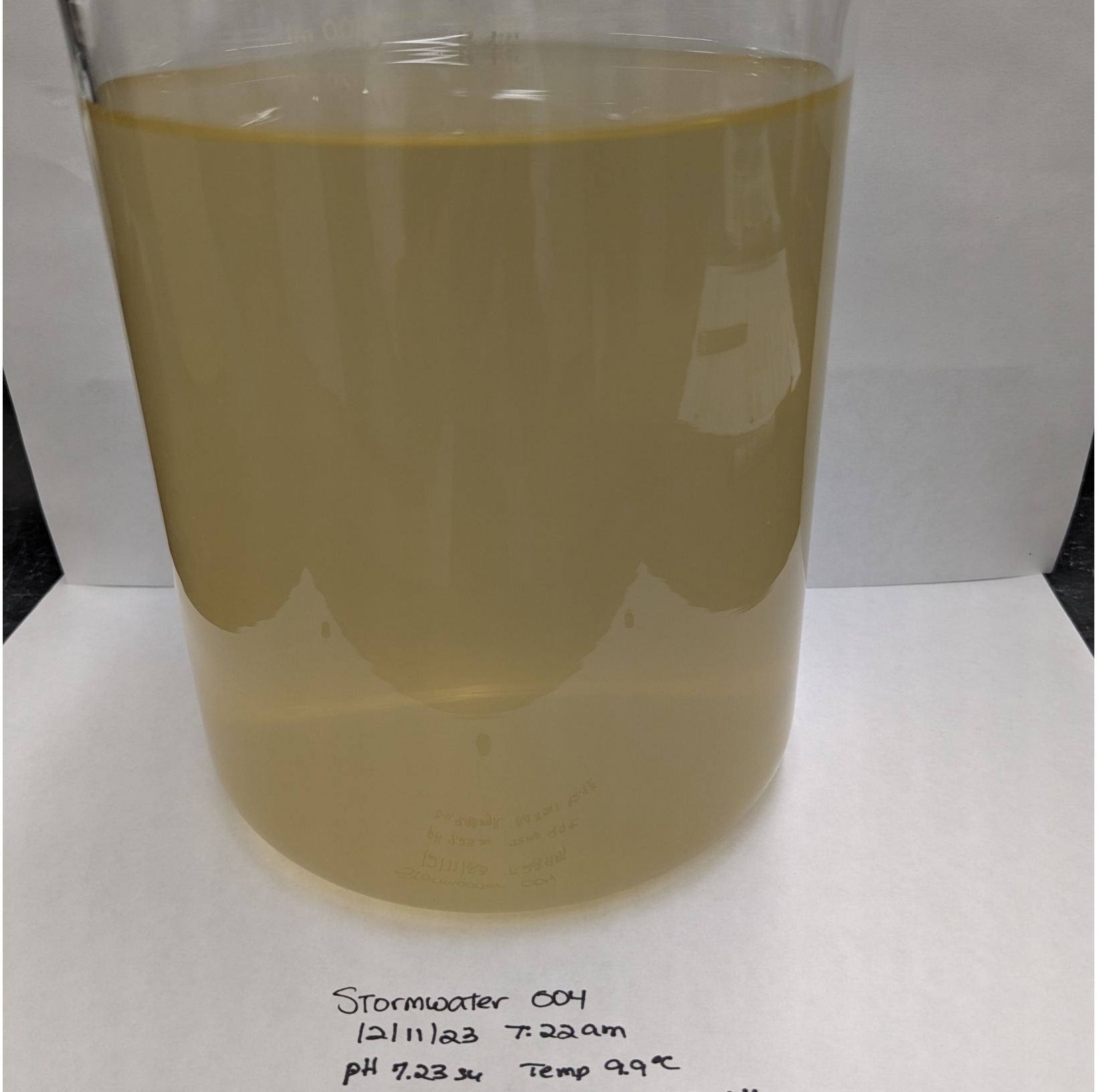
Outfall 4 Treatment Sector L

Sampling Date: Monday, December 11, 2023

Method Reference:

Standard Methods for Examination of Water and Wastewater 22nd ed., 2012.
Methods of Chemical Analysis of Water and Wastes. EPA Environmental Monitoring and Support Laboratory . Cincinnati, Ohio, March 1982 (EPA-600/4-79-020).

Parameter	Result	Date Tested		Analyst	Units	Method	Lab
Lead					mg/L	200.8	Alpha
T. Phosphorus					mg/L	365.2	UB
E.coli					MPN	Colilert	UB
pH	7.2	12/11/2023		DH	SU	150.2	UB
Dissolved Oxygen	10.0	12/11/2023		DH	mg/L	360.1	UB
Dissolved Oxygen	92.4	12/11/2023		DH	% sat	360.1	UB
Temperature	9.9	12/11/2023		DH	deg. C	SM 2550	UB
TSS	16.8	12/11/2023	12/12/2023	DH	mg/L	160.2	UB
FOG					mg/L	1664 A	Alpha
Turbidity					NTU	180.1	Alpha
COD	33.0	12/14/2023		FM	mg/L	8000	UB


Stormwater 004
12/11/23 7:22am
pH 7.23 su Temp 9.9°C

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:11 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	29.01 in	0.0 in	Fog
12:22 AM	45 °F	43 °F	93 %	SW	7 mph	0 mph	29.01 in	0.0 in	Fog
12:54 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	29.00 in	0.0 in	Mist
1:54 AM	44 °F	43 °F	96 %	SW	5 mph	0 mph	29.00 in	0.0 in	Mist
2:36 AM	44 °F	43 °F	96 %	SSW	6 mph	0 mph	28.99 in	0.0 in	Fog
2:46 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.98 in	0.0 in	Fog
2:54 AM	44 °F	43 °F	96 %	S	6 mph	0 mph	28.97 in	0.0 in	Fog
3:54 AM	44 °F	43 °F	96 %	S	6 mph	0 mph	28.95 in	0.0 in	Fog
4:23 AM	44 °F	43 °F	96 %	S	7 mph	0 mph	28.94 in	0.0 in	Fog
4:46 AM	44 °F	43 °F	96 %	S	7 mph	0 mph	28.94 in	0.0 in	Mist
4:54 AM	44 °F	44 °F	100 %	S	5 mph	0 mph	28.94 in	0.0 in	Mist
5:01 AM	45 °F	43 °F	93 %	SSW	6 mph	0 mph	28.94 in	0.0 in	Mist
5:09 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:27 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:35 AM	44 °F	43 °F	96 %	SSW	7 mph	0 mph	28.95 in	0.0 in	Mist
5:43 AM	44 °F	43 °F	96 %	SSW	6 mph	0 mph	28.95 in	0.0 in	Mist
5:54 AM	45 °F	43 °F	93 %	SSW	7 mph	0 mph	28.94 in	0.0 in	Mist
6:20 AM	45 °F	43 °F	93 %	SSW	8 mph	0 mph	28.93 in	0.0 in	Mist

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
6:46 AM	45 °F	44 °F	97 %	SSW	9 mph	0 mph	28.93 in	0.0 in	Fog
6:54 AM	45 °F	44 °F	97 %	SSW	7 mph	0 mph	28.93 in	0.0 in	Mist
7:54 AM	46 °F	44 °F	93 %	SSW	8 mph	0 mph	28.93 in	0.0 in	Mist
8:54 AM	48 °F	46 °F	93 %	SSW	10 mph	0 mph	28.92 in	0.0 in	Mist
9:51 AM	48 °F	48 °F	100 %	SSW	13 mph	0 mph	28.92 in	0.0 in	Fog
9:54 AM	49 °F	48 °F	97 %	SSW	14 mph	0 mph	28.92 in	0.0 in	Fog
10:13 AM	50 °F	49 °F	96 %	SSW	13 mph	0 mph	28.91 in	0.0 in	Fog
10:50 AM	52 °F	50 °F	94 %	SSW	12 mph	0 mph	28.89 in	0.0 in	Fog
10:54 AM	51 °F	50 °F	96 %	SSW	13 mph	0 mph	28.88 in	0.0 in	Fog
11:09 AM	52 °F	51 °F	97 %	SSW	12 mph	0 mph	28.88 in	0.0 in	Fog
11:24 AM	52 °F	51 °F	97 %	SSW	13 mph	0 mph	28.87 in	0.0 in	Fog
11:39 AM	52 °F	51 °F	97 %	SSW	13 mph	0 mph	28.86 in	0.0 in	Fog
11:54 AM	52 °F	51 °F	97 %	S	8 mph	0 mph	28.84 in	0.0 in	Fog
12:42 PM	53 °F	52 °F	96 %	S	14 mph	22 mph	28.82 in	0.0 in	Light Rain / Fog
12:50 PM	54 °F	54 °F	100 %	SSW	10 mph	21 mph	28.82 in	0.0 in	Mist
12:54 PM	54 °F	53 °F	97 %	SSW	10 mph	21 mph	28.81 in	0.0 in	Light Rain
1:01 PM	54 °F	53 °F	97 %	SSW	10 mph	0 mph	28.81 in	0.0 in	Light Rain
1:25 PM	55 °F	53 °F	93 %	SSW	12 mph	0 mph	28.80 in	0.0 in	Rain
1:54 PM	56 °F	54 °F	93 %	S	12 mph	0 mph	28.79 in	0.1 in	Light Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
2:52 PM	55 °F	54 °F	94 %	S	14 mph	0 mph	28.76 in	0.0 in	Mist
2:54 PM	56 °F	54 °F	93 %	S	12 mph	0 mph	28.76 in	0.0 in	Mist
3:18 PM	56 °F	54 °F	93 %	SSW	13 mph	0 mph	28.76 in	0.0 in	Light Rain
3:33 PM	56 °F	54 °F	93 %	SSW	14 mph	0 mph	28.77 in	0.0 in	Heavy Rain
3:54 PM	56 °F	54 °F	93 %	S	12 mph	21 mph	28.76 in	0.1 in	Rain
4:50 PM	57 °F	55 °F	94 %	SSW	10 mph	23 mph	28.74 in	0.3 in	Light Rain
4:54 PM	57 °F	55 °F	93 %	SSW	13 mph	23 mph	28.74 in	0.3 in	Light Rain
5:54 PM	57 °F	55 °F	93 %	S	13 mph	0 mph	28.72 in	0.1 in	Light Rain
6:54 PM	57 °F	55 °F	93 %	SSW	16 mph	0 mph	28.69 in	0.1 in	Light Rain
7:54 PM	58 °F	56 °F	93 %	SSW	15 mph	31 mph	28.65 in	0.0 in	Light Rain
8:54 PM	59 °F	56 °F	90 %	SSW	20 mph	32 mph	28.61 in	0.0 in	Cloudy
9:03 PM	59 °F	56 °F	90 %	SSW	17 mph	31 mph	28.61 in	0.0 in	Light Rain
9:54 PM	60 °F	57 °F	90 %	SSW	25 mph	39 mph	28.58 in	0.0 in	Light Rain / Windy
10:54 PM	59 °F	56 °F	90 %	S	23 mph	35 mph	28.54 in	0.1 in	Heavy Rain / Windy
11:25 PM	59 °F	56 °F	90 %	SSW	16 mph	29 mph	28.52 in	0.3 in	Rain
11:54 PM	59 °F	56 °F	90 %	SSW	16 mph	26 mph	28.50 in	0.4 in	Rain

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:12 AM	59 °F	56 °F	90 %	SSW	22 mph	33 mph	28.50 in	0.1 in	Heavy Rain / Windy
12:23 AM	59 °F	57 °F	93 %	SSW	18 mph	31 mph	28.49 in	0.2 in	Heavy Rain
12:32 AM	59 °F	56 °F	90 %	WSW	18 mph	35 mph	28.49 in	0.2 in	Rain
12:41 AM	52 °F	49 °F	89 %	NW	22 mph	32 mph	28.50 in	0.3 in	Rain / Windy
12:43 AM	51 °F	48 °F	89 %	NW	21 mph	32 mph	28.50 in	0.3 in	Heavy Rain / Windy
12:47 AM	50 °F	47 °F	89 %	NW	20 mph	31 mph	28.50 in	0.3 in	Rain
12:54 AM	48 °F	46 °F	93 %	NW	14 mph	28 mph	28.50 in	0.3 in	Rain
1:54 AM	46 °F	44 °F	93 %	NNW	8 mph	0 mph	28.47 in	0.1 in	Rain
2:01 AM	46 °F	44 °F	93 %	NNW	8 mph	0 mph	28.46 in	0.0 in	Rain
2:17 AM	46 °F	43 °F	89 %	WNW	14 mph	0 mph	28.48 in	0.1 in	Rain
2:26 AM	45 °F	43 °F	93 %	N	9 mph	0 mph	28.46 in	0.1 in	Light Rain
2:54 AM	45 °F	42 °F	90 %	WNW	17 mph	26 mph	28.49 in	0.2 in	Rain
3:09 AM	44 °F	41 °F	89 %	NW	16 mph	25 mph	28.47 in	0.0 in	Light Rain
3:20 AM	43 °F	41 °F	93 %	WNW	18 mph	0 mph	28.47 in	0.1 in	Rain
3:41 AM	43 °F	40 °F	89 %	NW	14 mph	24 mph	28.47 in	0.1 in	Rain
3:54 AM	43 °F	40 °F	89 %	NW	16 mph	23 mph	28.47 in	0.2 in	Light Rain
4:09 AM	42 °F	39 °F	89 %	NW	16 mph	25 mph	28.46 in	0.0 in	Rain
4:18 AM	42 °F	39 °F	89 %	NW	16 mph	26 mph	28.47 in	0.1 in	Rain

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
4:54 AM	42 °F	39 °F	89 %	NW	12 mph	21 mph	28.45 in	0.2 in	Light Rain
5:54 AM	42 °F	39 °F	89 %	NW	18 mph	26 mph	28.43 in	0.1 in	Light Rain
6:54 AM	41 °F	38 °F	89 %	NW	13 mph	21 mph	28.41 in	0.0 in	Light Rain
7:54 AM	41 °F	38 °F	89 %	NNW	10 mph	18 mph	28.45 in	0.0 in	Light Rain
8:20 AM	40 °F	37 °F	89 %	WNW	12 mph	0 mph	28.46 in	0.0 in	Light Rain
8:54 AM	40 °F	36 °F	86 %	WNW	12 mph	0 mph	28.46 in	0.0 in	Cloudy
9:54 AM	40 °F	37 °F	89 %	WNW	25 mph	33 mph	28.48 in	0.0 in	Cloudy / Windy
10:01 AM	40 °F	36 °F	86 %	WNW	22 mph	33 mph	28.48 in	0.0 in	Cloudy / Windy
10:31 AM	39 °F	36 °F	89 %	WNW	16 mph	28 mph	28.48 in	0.0 in	Cloudy
10:54 AM	39 °F	35 °F	86 %	WNW	18 mph	26 mph	28.49 in	0.0 in	Cloudy
11:19 AM	39 °F	34 °F	82 %	WNW	18 mph	33 mph	28.50 in	0.0 in	Cloudy
11:36 AM	39 °F	34 °F	82 %	W	24 mph	35 mph	28.51 in	0.0 in	Cloudy / Windy
11:54 AM	39 °F	34 °F	82 %	WNW	23 mph	36 mph	28.52 in	0.0 in	Cloudy / Windy
12:54 PM	41 °F	32 °F	70 %	WNW	20 mph	37 mph	28.54 in	0.0 in	Mostly Cloudy
1:54 PM	41 °F	31 °F	67 %	WNW	17 mph	33 mph	28.59 in	0.0 in	Mostly Cloudy
2:05 PM	41 °F	30 °F	65 %	W	20 mph	33 mph	28.61 in	0.0 in	Cloudy
2:24 PM	40 °F	29 °F	65 %	W	22 mph	32 mph	28.62 in	0.0 in	Cloudy / Windy
2:54 PM	39 °F	29 °F	67 %	WNW	18 mph	33 mph	28.63 in	0.0 in	Mostly Cloudy
3:54 PM	39 °F	28 °F	65 %	WNW	16 mph	25 mph	28.66 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
4:54 PM	38 °F	29 °F	70 %	W	14 mph	22 mph	28.72 in	0.0 in	Cloudy
5:33 PM	38 °F	28 °F	68 %	W	14 mph	0 mph	28.74 in	0.0 in	Cloudy
5:54 PM	37 °F	28 °F	70 %	W	15 mph	25 mph	28.76 in	0.0 in	Cloudy
6:16 PM	37 °F	28 °F	70 %	W	15 mph	24 mph	28.78 in	0.0 in	Cloudy
6:54 PM	37 °F	28 °F	70 %	W	18 mph	33 mph	28.80 in	0.0 in	Cloudy
7:54 PM	36 °F	26 °F	67 %	W	22 mph	31 mph	28.83 in	0.0 in	Mostly Cloudy / Windy
8:54 PM	35 °F	25 °F	67 %	W	21 mph	32 mph	28.85 in	0.0 in	Mostly Cloudy / Windy
9:54 PM	34 °F	22 °F	61 %	W	22 mph	35 mph	28.89 in	0.0 in	Fair / Windy
10:54 PM	33 °F	21 °F	61 %	W	15 mph	28 mph	28.93 in	0.0 in	Fair
11:54 PM	32 °F	20 °F	61 %	W	17 mph	29 mph	28.94 in	0.0 in	Fai

Attachment N

UBWPAD – Water Pollution Control Facility **Date:** 10/29/18

Quarterly NPDES Storm Water Inspection Check List

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☐ No ☒ N/A ☐
RTOs	
Are weekly inspections for leakage of Hydraulic Fluid being performed at the Hydraulic Tanks for the RTOS?	Yes ☒ No ☐ N/A ☐

UBWPAD – Water Pollution Control Facility **Date:** 10/29/18

Quarterly NPDES Storm Water Inspection Check List

Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Facility Wide	
Are weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☐ No ☒ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Hypochlorite Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Bisulfite Pipes?	Yes ☒ No ☐ N/A ☐
Has Spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the Annual Comprehensive Site Compliance Evaluation Report been completed?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐

Notes: Repeating WO issued for Weekly Transformer inspections. Catch basin covers along with locker on order for Gas Deliveries. So that Speedy Dry can be stored as well.

INSPECTOR SIGNATURE:

UBWPAD – Water Pollution Control Facility **Date:** 12/7/18

Quarterly NPDES Storm Water Inspection Check List

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☐ No ☒ N/A ☐
RTOs	
Are weekly inspections for leakage of Hydraulic Fluid being performed at the Hydraulic Tanks for the RTOS?	Yes ☒ No ☐ N/A ☐

UBWPAD – Water Pollution Control Facility **Date:** 12/7/18

Quarterly NPDES Storm Water Inspection Check List

Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Facility Wide	
Are weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☐ No ☒ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Hypochlorite Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Bisulfite Pipes?	Yes ☒ No ☐ N/A ☐
Has Spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the Annual Comprehensive Site Compliance Evaluation Report been completed?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐

Notes: Rand has signs that state to cover storm drains prior to delivering gas/diesel but not in place. Rand to contact the gas/diesel delivery company. Sent email to Eric to create w/o for weekly Substation Transformer weekly inspections. Sent checklist as well. MSGP Quarterly Visual Assessment Form is complete. Form just needs signed off.

INSPECTOR SIGNATURE: _____

UBWPAD – Water Pollution Control Facility **Date:** 2/14/19

Quarterly NPDES Storm Water Inspection Check List

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
RTOs	
Are weekly inspections for leakage of Hydraulic Fluid being performed at the Hydraulic Tanks for the RTOS?	Yes ☒ No ☐ N/A ☐

UBWPAD – Water Pollution Control Facility **Date:** 2/14/19

Quarterly NPDES Storm Water Inspection Check List

Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Facility Wide	
Are weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Hypochlorite Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Bisulfite Pipes?	Yes ☒ No ☐ N/A ☐
Has Spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the Annual Comprehensive Site Compliance Evaluation Report been completed?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☐ No ☒ N/A ☐

Notes: Rand has signs that state to cover storm drains prior to delivering gas/diesel but not in place. Rand to contact the gas/diesel delivery company. MSGP Quarterly Visual Assessment Form is not yet complete.

INSPECTOR SIGNATURE:

UBWPAD – Water Pollution Control Facility **Date:** 5/13/19

Quarterly NPDES Storm Water Inspection Check List

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
RTOs	
Are weekly inspections for leakage of Hydraulic Fluid being performed at the Hydraulic Tanks for the RTOS?	Yes ☐ No ☐ N/A ☒

UBWPAD – Water Pollution Control Facility **Date:** 5/13/19

Quarterly NPDES Storm Water Inspection Check List

Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Facility Wide	
Are weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Hypochlorite Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Bisulfite Pipes?	Yes ☒ No ☐ N/A ☐
Has Spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the Annual Comprehensive Site Compliance Evaluation Report been completed?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☐ No ☒ N/A ☐

Notes: MSGP Quarterly Visual Assessment Form is not yet completed due to there has not been 3 straight days without rain this quarter yet.

INSPECTOR SIGNATURE: _____

Q

UBWPAD – Water Pollution Control Facility **Date:** 8/12/19

Quarterly NPDES Storm Water Inspection Check List

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
RTOs	
Are weekly inspections for leakage of Hydraulic Fluid being performed at the Hydraulic Tanks for the RTOS?	Yes ☐ No ☐ N/A ☒

UBWPAD – Water Pollution Control Facility **Date:** 8/12/19

Quarterly NPDES Storm Water Inspection Check List

Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Facility Wide	
Are weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Hypochlorite Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at the Sodium Bisulfite Pipes?	Yes ☒ No ☐ N/A ☐
Has Spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the Annual Comprehensive Site Compliance Evaluation Report been completed?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐

Notes: Propane cylinder located by Alden Building AC. Notified Glenn. In Building and Grounds building empty oil bottles are thrown in the trash. Notified Glenn. By Nickerson trailer the dumpster covers and side panel are open, Outside of dumpster there are paint cans, gas cans and a 5 gallon button open with some brown type of liquid in it. Notified Denise.

INSPECTOR SIGNATURE:

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Quarter: 4th (Oct-Dec) Year: 2019

Weather Conditions: Overcast, Raining, Temperature 51°F Date: 10/29/19 Time: 0830

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Quarter: 4th (Oct-Dec) Year: 2019

Weather Conditions: Overcast, Raining, Temperature 51°F Date: 10/29/19 Time: 0830

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage piles enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☒ #2 ☐ #3 ☐ #4 ☐ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Quarter: 4th (Oct-Dec) **Year:** 2019

Weather Conditions: Overcast, Raining, Temperature 51°F **Date:** 10/29/19 **Time:** 0830

Notes:

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Weather Conditions: Overcast, Raining, Temperature 39°F **Date:** 2/10/20 **Time:** 0830

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Weather Conditions: Overcast, Raining, Temperature 39°F **Date:** 2/10/20 **Time:** 0830

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage piles enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☒ #2 ☐ #3 ☐ #4 ☐ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Upper Blackstone Clean Water

Quarterly NPDES SWPPP BMP Inspection Checklist

Weather Conditions: Overcast, Raining, Temperature 39°F **Date:** 2/10/20 **Time:** 0830

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 2nd (Apr-Jun) **Year:** 2020

Weather Conditions: No rain, Sunny, Temperature 47°F **Date:** 5/11/20 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2020

Weather Conditions: No rain, Sunny, Temperature 47°F **Date:** 5/11/20 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage piles enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 2nd (Apr-Jun) **Year:** 2020

Weather Conditions: No rain, Sunny, Temperature 47°F **Date:** 5/11/20 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla Sangrey **Engineer Director/Treasurer Signature:** Karla H. Sangrey

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 3rd (Jul-Sept) **Year:** 2020

Weather Conditions: No rain, Sunny, Temperature 81°F **Date:** 8/12/20 **Time:** 1000

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (Jul-Sept)** **Year: 2020**

Weather Conditions: No rain, Sunny, Temperature 81°F **Date: 8/12/20** **Time: 1000**

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage piles enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (Jul-Sept)** **Year: 2020**

Weather Conditions: No rain, Sunny, Temperature 81°F **Date: 8/12/20** **Time: 1000**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla Sangrey **Engineer Director/Treasurer Signature:** Karla H. Sangrey

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2020

Weather Conditions: No rain, Sunny, Temperature 54°F **Date:** 11/9/20 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 4th (Oct-Dec) **Year:** 2020

Weather Conditions: No rain, Sunny, Temperature 54°F **Date:** 11/9/20 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 4th (Oct-Dec) **Year:** 2020

Weather Conditions: No rain, Sunny, Temperature 54°F **Date:** 11/9/20 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 1st (Jan-Mar) Year: 2021

Weather Conditions: No rain, Overcast, Snow Melt, Temperature 36°F **Date:** 2/23/21 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 1st (Jan-Mar)** **Year: 2021**

Weather Conditions: No rain, Overcast, Snow Melt, Temperature 36°F **Date: 2/23/21** **Time: 0800**

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☒ #2 ☐ #3 ☐ #4 ☐ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 1st (Jan-Mar) **Year:** 2021

Weather Conditions: No rain, Overcast, Snow Melt, Temperature 36°F **Date:** 2/23/21 **Time:** 0800

Notes: Outfall #1 discharging from snow melt.

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2021

Weather Conditions: No rain, Overcast, Temperature 55°F **Date:** 5/11/21 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2021

Weather Conditions: No rain, Overcast, Temperature 55°F **Date:** 5/11/21 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 2nd (Apr-Jun) **Year:** 2021

Weather Conditions: No rain, Overcast, Temperature 55°F **Date:** 5/11/21 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 3rd (Jul-Sept) Year: 2021

Weather Conditions: Rain, Overcast, Temperature 69°F **Date:** 8/9/21 **Time:** 0900

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 3rd (Jul-Sept) Year: 2021

Weather Conditions: Rain, Overcast, Temperature 69°F **Date:** 8/9/21 **Time:** 0900

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☒ #3 ☐ #4 ☒ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 3rd (Jul-Sept) **Year:** 2021

Weather Conditions: Rain, Overcast, Temperature 69°F **Date:** 8/9/21 **Time:** 0900

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2021

Weather Conditions: Sunny, Temperature 39°F **Date:** 11/8/21 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2021

Weather Conditions: Sunny, Temperature 39°F **Date:** 11/8/21 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 4th (Oct-Dec)** **Year: 2021**

Weather Conditions: Sunny, Temperature 39°F **Date: 11/8/21** **Time: 0800**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:** Karla H. Sangrey

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 1st (Jan-Mar) Year: 2022

Weather Conditions: Sunny, Temperature 25°F, Snow on the Ground **Date:** 2/9/22 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 1st (Jan-Mar) Year: 2022**

Weather Conditions: Sunny, Temperature 25°F, Snow on the Ground Date: 2/9/22 Time: 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☒ #2 ☐ #3 ☐ #4 ☒ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 1st (Jan-Mar) **Year:** 2022

Weather Conditions: Sunny, Temperature 25°F, Snow on the Ground **Date:** 2/9/22 **Time:** 0800

Notes: Snow melt causing discharges at Outfalls 1 and 4. Temperature at 43°F at end of inspection.

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2022

Weather Conditions: Sunny, Temperature 48°F **Date:** 5/10/22 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2022

Weather Conditions: Sunny, Temperature 48°F **Date:** 5/10/22 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 2nd (Apr-Jun) **Year:** 2022

Weather Conditions: Sunny, Temperature 48°F **Date:** 5/10/22 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 3rd (July-Sept) **Year:** 2022

Weather Conditions: Sunny, Temperature 76°F **Date:** 8/8/22 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (July-Sept) Year: 2022**

Weather Conditions: Sunny, Temperature 76°F Date: 8/8/22 Time: 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (July-Sept)** **Year: 2022**

Weather Conditions: Sunny, Temperature 76°F **Date: 8/8/22** **Time: 0800**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:** Karla H. Sangrey

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2022

Weather Conditions: Clear, Cold 36°F **Date:** 11/14/22 **Time:** 0830

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 4th (Oct-Dec) **Year:** 2022

Weather Conditions: Clear, Cold 36°F **Date:** 11/14/22 **Time:** 0830

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 4th (Oct-Dec)** **Year: 2022**

Weather Conditions: Clear, Cold 36°F **Date: 11/14/22** **Time: 0830**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:** Karla H. Sangrey

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 1st (Jan-Mar) Year: 2023

Weather Conditions: Snow Showers, Cold 25°F **Date:** 2/27/23 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 1st (Jan-Mar) Year: 2023

Weather Conditions: Snow Showers, Cold 25°F **Date:** 2/27/23 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 1st (Jan-Mar) **Year:** 2023

Weather Conditions: Snow Showers, Cold 25°F **Date:** 2/27/23 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2023

Weather Conditions: Sunny, Warm 61°F **Date:** 5/8/23 **Time:** 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 2nd (Apr-Jun) Year: 2023

Weather Conditions: Sunny, Warm 61°F **Date:** 5/8/23 **Time:** 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter:** 2nd (Apr-Jun) **Year:** 2023

Weather Conditions: Sunny, Warm 61°F **Date:** 5/8/23 **Time:** 0800

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (July-Sept)** **Year: 2023**

Weather Conditions: Rainy 68°F **Date: 8/15/23** **Time: 0800**

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (July-Sept)** **Year: 2023**

Weather Conditions: Rainy 68°F **Date: 8/15/23** **Time: 0800**

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☒ No ☐ N/A ☐
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☒ No ☐ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☒ #2 ☒ #3 ☐ #4 ☐ N/A ☐
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 3rd (July-Sept)** **Year: 2023**

Weather Conditions: Rainy 68°F **Date: 8/15/23** **Time: 0800**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla H. Sangrey **Engineer Director/Treasurer Signature:**

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2023

Weather Conditions: Sunny and Clear 30°F Date: 11/13/23 Time: 0800

Septage Receiving Facility	
Is there evidence of spillage at the Septage Receiving Facility?	Yes ☐ No ☒ N/A ☐
Sludge Holding Tanks	
Is there evidence of spillage at the Liquid Sludge Delivery Sludge Holding Tanks?	Yes ☐ No ☒ N/A ☐
Incinerator Building	
Are containment pallets in place beneath fill pipes for deliveries at the Caustic Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Liquid Polymer Fill Pipes?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Ferric Chloride Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Methanol (Micro-C) Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets and catch basin covers used during deliveries at Fuel Oil Fill Pipes?	Yes ☒ No ☐ N/A ☐
Ash Garage	
Is ash stored and loaded indoors?	Yes ☒ No ☐ N/A ☐
Is ash wetted with water to minimize dust?	Yes ☒ No ☐ N/A ☐
Is the ash garage swept daily?	Yes ☒ No ☐ N/A ☐
Is the ash garage and conditioning areas cleaned weekly?	Yes ☒ No ☐ N/A ☐
Is the ash screw and spray system cleaned yearly?	Yes ☒ No ☐ N/A ☐
Gas and Diesel Fuel Station	
Are catch basin covers used during deliveries at the Fuel Station?	Yes ☒ No ☐ N/A ☐
Maintenance Building	
Is storage limited to inert materials?	Yes ☒ No ☐ N/A ☐
Disinfection Building	
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Hypochlorite Fill Pipe?	Yes ☒ No ☐ N/A ☐
Are containment pallets in place beneath fill pipes for deliveries at the Sodium Bisulfite Fill Pipe?	Yes ☒ No ☐ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist Quarter: 4th (Oct-Dec) Year: 2023

Weather Conditions: Sunny and Clear 30°F Date: 11/13/23 Time: 0800

Facility Wide	
Are the weekly inspections for leakage of mineral oil being performed at the substation transformers?	Yes ☒ No ☐ N/A ☐
Are the weekly inspections of the Landfill being performed?	Yes ☒ No ☐ N/A ☐
Are the weekly spill prevention control and countermeasure inspections being performed?	Yes ☒ No ☐ N/A ☐
Is storage limited to inert materials at scrap piles?	Yes ☒ No ☐ N/A ☐
Is the dumpster continuously covered?	Yes ☒ No ☐ N/A ☐
Is the Salt Storage pile enclosed or covered?	Yes ☒ No ☐ N/A ☐
Is the Sodium Hypochlorite and Sodium Bisulfite Tanks' diked drainage area with a catch basin and shutoff valve working properly for deliveries?	Yes ☒ No ☐ N/A ☐
Has spring street sweeping and catch basin cleaning of road salts/sand mix been done in roadways and parking lots?	Yes ☐ No ☐ N/A ☒
Has the MSGP Quarterly Visual Assessment Form been completed?	Yes ☒ No ☐ N/A ☐
Has dust generation and vehicle tracking been minimized/mitigated?	Yes ☒ No ☐ N/A ☐
Did you inspect the physical conditions of and around all outfalls, including any flow dissipation devices, and evidence of pollutants in discharges and /or the receiving water? If there are, any discrepancies indicate in the Notes.	Yes ☒ No ☐ N/A ☐
Is a Stormwater discharge occurring? (An inspection must occur at least once each calendar year with a stormwater discharge.)	Yes ☐ No ☒ N/A ☐
If there are any discharges occurring at the time of the inspection, list a descriptions of the discharge in the notes section and/or indicate the outfall that is discharging. (Outfall #)	#1 ☐ #2 ☐ #3 ☐ #4 ☐ N/A ☒
Are there industrial materials, residue, or trash that may have or could come into contact with stormwater?	Yes ☐ No ☒ N/A ☐
Are there any leaks or spills from industrial equipment, drums, tanks, and other containers?	Yes ☐ No ☒ N/A ☐
Is there offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site?	Yes ☐ No ☒ N/A ☐
Is there tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas?	Yes ☐ No ☒ N/A ☐
Are there control measures needing replacement, maintenance or repair?	Yes ☐ No ☒ N/A ☐
Are there any previously unidentified discharges from and/or pollutants at the site?	Yes ☐ No ☒ N/A ☐
Is there any evidence of, or the potential for, pollutants entering the drainage system?	Yes ☐ No ☒ N/A ☐
Are there any additional control measures needed to comply with the permit requirements?	Yes ☐ No ☒ N/A ☐
Are there any incidents of noncompliance?	Yes ☐ No ☒ N/A ☐

Quarterly NPDES SWPPP BMP Inspection Checklist **Quarter: 4th (Oct-Dec)** **Year: 2023**

Weather Conditions: Sunny and Clear 30°F **Date: 11/13/23** **Time: 0800**

Notes:

Inspector Name: Dennis Lowe **Inspector Signature:**

Engineer Director/Treasurer: Karla Sangrey **Engineer Director/Treasurer Signature:**