



## **Town of Plaistow, New Hampshire Stormwater Management Program (SWMP)**

**Submitted By**  
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## **1.0 Stormwater Management Program Overview**

This Stormwater Management Program (SWMP) was developed for the Town of Plaistow as required in Part 1.10 of the 2017 NH Small MS4 General Permit requirements (MS4 Permit). The Town previously obtained coverage under the 2003 NH Small MS4 General Permit and filed a Notice of Intent (NOI) on September 1, 2018 to obtain coverage under the 2017 NH Small MS4 General Permit that became effective on July 1, 2018 and will expire on July 1, 2023. The NOI is available to the public and can be viewed at the following location on the US EPA website: <https://www.epa.gov/npdes-permits/regulated-ms4-new-hampshire-communities> (accessed June 27, 2019).

This Management Program documents activities and measures that are either currently being undertaken or will be implemented in order to meet the requirements of the new MS4 Permit. This stormwater management program identifies those responsible for the implementation of the program, all receiving waterbody segments, a listing of all MS4 discharge points, eligibility determination descriptions, steps that will be taken beginning in Year 1 to comply with permit terms via minimum control measures, existing programs and/or procedures that the Town of Plaistow has been implementing since the previous permit, and an annual program evaluation. Plaistow will continue to implement their existing SWMP while at the same time making the required updates.

This document will be updated and/or modified annually to reflect the new permit requirements as the terms of the permit are reached. As noted in the MS4 Permit, a signature and date is required for both the start of the programs and for any changes. Accordingly, this written stormwater management program includes a signature of the principal executive officer (town manager), included in the Certification section of this document.

The stormwater management program document will be available to the public on the Town of Plaistow's website at: <https://www.plaistow.com>, and a hardcopy will be retained in the Plaistow Town Hall and will be publicly available during standard business hours. This stormwater management program will also be available to representatives from EPA; the New Hampshire Department of Environmental Services (NHDES); the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) upon request as required in Part 1.10.1 of the permit.

### **1.1 Stormwater Management Program Team**

Town representatives including town staff from various departments, the town manager's office, the board of selectmen, and the town's environmental consultants are responsible for the development, administration, and execution of the stormwater management program. These representatives are active in local and regional stormwater efforts that are a part of this stormwater management program



as discussed in Section 2.0. The following is a list of the departments and individuals who are responsible for executing the SWMP with a summary of their current responsibilities.

Name	Title	Department/Town Board
<b>Mark Pearson</b>	<i>Town Manager, Town of Plaistow</i>	<i>Office of Town Manager</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Public outreach regarding waste disposal and yard work activities (BMP 1)</li> <li>Report on stormwater activities (Ensuring the Stormwater Program is in the Annual Report).</li> <li>Promote BMPs on Town website and Facebook page</li> <li>Master drainage plan</li> </ul>	
<b>Greg Colby</b>	<i>Assistant Town Manager/Finance Director, Town of Plaistow</i>	<i>Office of Town Manager</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Administration of the Stormwater Management Program</li> </ul>	
<b>Dennise Horrocks</b>	<i>Health Officer, Town of Plaistow</i>	<i>Health Department</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Public outreach regarding waste disposal and yard work activities (BMP 1)</li> <li>Promote BMPs on Town website, Facebook page, and Carriage Towne News</li> </ul>	
<b>Dan Garlington</b>	<i>Highway Supervisor, Town of Plaistow</i>	<i>Highway Department</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Ensure catch basin cleaning and street sweeping is complete</li> <li>Maintain up-to-date knowledge on winter maintenance practices</li> <li>Staff training</li> <li>Household hazardous waste day coordination</li> <li>Public outreach regarding dog waste</li> <li>Coordination of storm drain stenciling</li> <li>Operation and maintenance plan</li> </ul>	
<b>Peter Blanchette</b>	<i>Chief Building Official/Code Enforcement Officer/Deputy Health Officer, Town of Plaistow</i>	<i>Planning/Building/Health Department</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Implementation of Illicit Discharge Program</li> <li>Site inspection and enforcement</li> </ul>	
<b>Dee Voss</b>	<i>Administrative Assistant, Town of Plaistow</i>	<i>Planning Department</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>Storm sewer ordinance</li> <li>BMP ordinance for new construction updates</li> <li>Site plan review procedure updates</li> <li>Other ordinances related to stormwater</li> </ul>	

<b>Tim Moore</b>	<i>Board Member, Town of Plaistow</i>	<i>Conservation Commission</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>• Water quality outreach</li> <li>• Annual surface water sampling</li> <li>• Drinking water testing program</li> <li>• Coordination of watershed signs</li> <li>• Coordination with schools regarding vegetation plantings</li> <li>• Observation of outfalls</li> <li>• Annual town cleanup event</li> <li>• Illicit discharge plan</li> </ul>	
<b>Dean Zanello</b>	<i>Coordinator</i>	<i>Cable Committee</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>• Provide information on stormwater on the Town's local TV channel</li> </ul>	
<b>Normandeau Associates</b>	<i>Consultant</i>	<i>N/A</i>
Responsibilities Regarding MS4	<ul style="list-style-type: none"> <li>• Coordination with schools (BMP 1)</li> <li>• Surface water sampling</li> <li>• Preparation of MS4 Annual Summary Report</li> <li>• Stormwater program management</li> </ul>	

## 1.2 Minimum Control Measures and Measurable Goals

Under the MS4 General Permit, including the previous 2003 permit and current 2017 permit, there are six categories of stormwater control measures identified, including:

1. Public Education and Outreach (2017 MS4 Permit Part 2.3.2)
2. Public Involvement and Participation (Part 2.3.3)
3. Illicit Discharge Detection and Elimination (IDDE) Program (Part 2.3.4)
4. Construction Site Stormwater Runoff Control (Part 2.3.5)
5. Stormwater Management in New Development and Redevelopment (Post-Construction Stormwater Management) (Part 2.3.6)
6. Good Housekeeping and Pollution Prevention for Municipal Operations (Part 2.3.7)

Within each of these control measures, measurable goals are required to be met within a certain timeframe as specified in the permit. Actions under the previous and current permits have been documented and submitted to the US EPA each year in the Town's MS4 Annual Report. The annual

report describes how the Town of Plaistow has addressed past measures and how they will update their program to include updates as scheduled in the current 2017 MS4 permit. The six minimum control measures are listed below along with details on how the Town will meet these requirements throughout the length of the permit beginning in permit year one of the new permit which became effective July 1, 2018.

The 2017 Small MS4 Permit requires that the Town of Plaistow update their stormwater management program to include updated Best Management Practices (BMPs) and measurable goals to address each of the six (6) minimum control measures within one (1) year of the permit effective date. These updated goals are outlined in the tables below.

**Minimum Control Measure 1: Public Education and Outreach (Part 2.3.2 of Permit)**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal</b>	<b>Completion Date</b>	<b>Person Responsible</b>
1.1	Update Existing Education Program	Include: (1) residents, (2) businesses, institutions (private colleges, private schools, hospitals), and commercial facilities, (3) developers (construction), and (4) industrial facilities	Year 1	Consultant
1.2	Public Outreach/Distribution of Educational Programs	Distribute at least two (2) educational messages over the permit term to each of the four (4) audiences mentioned above. Space materials to each audience at least a year apart.	Beginning in the first year of the permit and continuing throughout the permit term	Town Planner
1.3	Provide annual message encouraging the proper management of pet waste	Provide educational materials to dog owners at the time of issuance or renewal of a dog license	Annually, beginning in the first year of the permit	Town Planner
1.4	Provide information to owners of septic systems about proper maintenance	Provide educational materials for owners of septic systems in Kelly Brook watershed	Once during the permit period	Building Department

The Town is also required to implement a stormwater education program that targets four (4) audiences to increase public knowledge and change public behavior regarding stormwater issues to reduce impacts from stormwater runoff. As stated in Part 2.3.2.1a of the permit, the education program will be

updated to include four targeted audiences: (1) residents, (2) businesses, institutions (private colleges, private schools, hospitals), and commercial facilities, (3) developers (construction), and (4) industrial facilities. Topics for each audience are listed in 2.3.2.1c.i-iv of the permit.

#### **Minimum Control Measure 2: Public Involvement and Participation (Part 2.3.3 of Permit)**

As stated in Part 2.3.3 of the permit, engaging the public with the review and implementation of the SWMP is required. Under Part 2.3.3.1, SWMP activities must also comply with state public notice requirements (NH: RSA Chapter 91-A).

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Measurable Goal</b>	<b>Deadline</b>	<b>Person Responsible</b>
2.1	SWMP and all annual reports to be available to the public	Continue to post on Town website and have a hardcopy of SWMP available at the Town Hall for public view.	Annually, throughout the permit (ongoing)	Town Planner
2.2	Provide public the opportunity for participation regarding the SWMP.	Allow for public review and implementation of this SWMP	Annually, throughout the permit (ongoing)	Town Planner
2.3	Report on public participation activities including compliance with Part 2.3.3.1 of the permit	Continue with current public engagement activities such as Town clean-up event, Old Home Day promotion of water quality.  Make available to the public (Town website)	Annually, throughout the permit (ongoing)	Conservation Commission Officer

#### **Minimum Control Measure 3: Illicit Discharge Detection and Elimination (IDDE) Program (2.3.4)**

As stated in Part 2.3.4 of the permit, the goal of the IDDE program is to find and eliminate any sources of non-stormwater discharges to the municipal storm sewer system and implement procedures to prevent such discharges. Upon detection of an illicit discharge, the IDDE program must have procedures in place to eliminate an illicit discharge within 60 days of its detection. The Town of Plaistow has an existing program and has been monitoring stormwater outfalls throughout Town. Additionally, surface water samples have been collected from locations known to have high E. coli and had them DNA tested. Plaistow will continue to implement their existing IDDE program and update the program to include the following:

BMP ID #	BMP Description	Measurable Goal	Deadline	Person Responsible
3.0	Legal Authority (2.3.4a)	Update existing IDDE program to include legal authority	Year 1 (complete)	Chief Building Official
3.1	Elimination of Illicit Discharges (2.3.4.2)	Locate, identify and eliminate as fast as possible upon detection within 60 days. See Part 2.3.4.2a and b for further details	If identified, ongoing, throughout the permit term	Chief Building Official
3.2	Non-Stormwater Discharges (2.3.4.3)	Implement measures to control sources in Part 1.4 if identified as contributors of pollutants to the MS4.	If identified, ongoing throughout the permit term	Chief Building Official
3.3	Develop Inventory of Sanitary Sewer Overflows (SSOs) (2.3.4.4)	Identify known locations where SSOs have discharged to the MS4 within the past 5 years and develop inventory of all identified SSOs (See Part 2.3.4.4.b.1-7)  Update inventory annually in accordance with Part 2.3.4.4.b.1-7 and include in <u>annual report</u>  If SSO is identified, see Part 2.3.4.4.c	Year 1 (complete)    Annually, if applicable (not applicable)	Chief Building Official
3.4	Revise System Mapping (2.3.4.5)	<b><u>Complete in two phases</u></b> <b>Phase I:</b> Outfalls/receiving waters, open channel conveyances, interconnections with other MS4s, Town owned stormwater treatment structures, initial catchment delineations, and waterbodies (use impairments). <b>Phase II:</b> Outfall spatial location, pipes, manholes, catch basins, refined catchment delineations (after investigations), municipal sanitary sewer system (if available), and municipal combined sewer system (if available)  Recommended elements (2.3.4.5.c)  Report on progress towards the completion of the system map in each annual report	Phase I – Within 2 years of the permit effective date (ongoing)          Phase II – Update annually and to be completed within 10 years of the permit effective date (ongoing)       Annually, until map is complete – beginning within 2 years (ongoing)	Consultant, Highway Department Supervisor
3.5	Develop a written IDDE plan (hardcopy or	Developed in accordance with Parts 2.3.4.7 and 2.3.4.8 – Reference or cite the authority, include responsibilities, and program procedures.	Year 1 and updated in accordance with permit milestones (complete)	Chief Building Official, Consultant

	electronic) (2.3.4.6)	At a minimum include in program procedures include the written procedures for dry weather outfall screening and sampling and for catchment investigations.		
3.6	Assess and Priority Rank Outfalls (2.3.4.7)	Conduct initial outfall and interconnection inventory and priority ranking and include in report.	Year 1, update annually (complete)	Consultant, Highway Department Supervisor
		Inspect all outfalls/interconnections ( <i>excluding problem and excluded outfalls</i> ) for the presence of dry weather flow;  Screen high/low priority outfalls with their ranking from Part 2.3.4.7.a of the permit.	Within 3 years (ongoing)	
		Develop outfall and interconnection screening and sampling procedure	Year 1 (complete)	
		Continue to update/reprioritize outfalls and interconnections	To be completed within 3 years (ongoing)	
3.7	<b>Develop Procedure for Catchment Investigations (2.3.4.8)</b> - <i>For catchments with one (1) identified System Vulnerability Factor (SVF) - see p. 40, wet weather sampling requirements apply. Conduct at least one (1) wet weather screening during the spring (March-June);</i>	Develop written investigation procedure that includes: Maps, historic plans and records - manhole inspection methodology - procedures to isolate and confirm sources of illicit discharges	Within eighteen (18) months (December 31, 2019) (complete)	Consultant
		Investigate catchments associated with Problem Outfalls	Begin no later than 2 years from the permit date (June 30, 2020) (not applicable)	Chief Building Official
		Complete investigations of catchments associated with Problem Outfalls;  Investigations where any information gathered on the outfall/interconnection identifies sewer input.	Within 7 years of the permit effective date (ongoing)	Chief Building Official
		Investigations associated with all High- and Low-Priority Outfalls	Within 10 years of the permit effective date (ongoing)	Chief Building Official
		Confirmatory screening during dry weather (If applicable)	Within one year of removal of all identified illicit discharge within a catchment area	Chief Building Official

3.8	Track IDDE Program Progress (2.3.4.9)	Define or describe indicators for tracking program success: <ul style="list-style-type: none"> <li>Evaluate and report on overall effectiveness of program in each annual report.</li> <li>At a minimum: # of SSOs and illicit discharges identified and removed, volume of sewage removed, dry and wet weather screening/sampling results, # and % of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure.</li> </ul>	Annually throughout the permit (ongoing)	Consultant, Chief Building Official
3.9	Continue Ongoing Screening (2.3.4.10)	After completion of catchment investigations and illicit discharge removal, reprioritize for screening in accordance with 2.3.4.7a  Dry weather screening/sampling (2.3.4.7.b) wet weather screening/sampling at outfalls where wet weather screening was required due to SVFs (2.3.4.8.c.ii)  Include in annual report	Screening once every five years, document annually in report	Consultant, Chief Building Official
3.0a	Annual training (2.3.4.11)	Provide annual training to employees involved in the IDDE Program, frequency and type of training to be included in annual report	Annually, throughout the permit (ongoing)	Consultant

#### Minimum Control Measure 4: Construction Site Stormwater Runoff Control (2.3.5)

The Town is required to implement and enforce a stormwater runoff control program to reduce or eliminate erosion during construction activities that result in a land disturbance greater than or equal to one acre so that pollutants in any stormwater runoff are not discharged to the MS4 and then waters of the U.S.

BMP ID #	BMP Description	Measurable Goal	Deadline	Responsible Person
4.0	Implement/Enforce Stormwater Runoff Control Program During Construction Activities (2.3.5.1)	Continue to implement existing program, site inspections and enforcement	Annually, throughout permit (ongoing)	Chief Building Official

4.1	Update Stormwater Runoff Control Program During Construction Activities (2.3.5.3)	Develop ordinance that addresses sediment and erosion control, and management of wastes on construction sites.	(complete)	Chief Building Official
		Written procedures (hardcopy or electronic) for site inspections and enforcement of sediment and erosion control measures.	Year 1 (complete)	Chief Building Official
		Requirements for construction site operators performing land disturbance activities to implement a sediment and erosion control program that includes BMPs at construction sites.	(complete)	Chief Building Official
		Develop written procedures (hardcopy or electronic) for site plan review, inspection and enforcement	Year 1 (complete)	Chief Building Official
		Requirements for construction operators to implement sediment and erosion control program/BMPs at sites	(complete)	Chief Building Official
		Requirements to control construction wastes		Chief Building Official
		Written procedures (hardcopy or electronic) for site plan review. If not already existing. Details can be viewed in Part 2.3.5.3.e	Year 1 (complete)	Chief Building Official

#### Minimum Control Measure 5: Post-Construction Stormwater Management (2.3.6)

The Town is required to develop, implement and enforce a program to address post construction stormwater management for sites greater than or equal to one acre and includes sites of less than one acre if the site is part of a larger common development. This includes both new development and redevelopment after construction with the goal of minimizing impacts to water quality from these sites after construction activities have ended.

BMP ID #	BMP Description	Measurable Goal	Deadline	Responsible Person
5.1	Implement/Enforce Stormwater Management Program	Continue to implement existing program, site inspections and enforcement	Annually, throughout permit (ongoing)	Chief Building Official
5.2	Update program regarding post-	Develop or modify, ordinance or other regulatory	Within 2 years (complete)	Chief Building Official



	construction stormwater runoff	mechanism (Include low Impact development (LID); salt storage areas, selection and design of treatment and infiltration practices – follow NH Stormwater Manual, post construction stormwater controls new development & redevelopment) (2.3.6.a.ii)		
5.3	Require submission of as-built drawings	Receive drawings that show onsite controls and the site.	Throughout permit, receive drawings no later than two years after completion of construction projects (2.3.6.b) (complete)	Chief Building Official
5.4	Development of report assessing street design and parking guidelines	Review existing ordinances and other local requirements that affect the creation of impervious cover (2.3.6.c)	Year 4	Consultant
5.5	Development of report on local regulations	Report will assess local regulations to determine feasibility of making certain practices allowable when appropriate: green roofs, infiltration practices, water harvesting (2.3.6.d)	Year 4	Consultant
5.6	Identify and priority rank municipally owned properties and infrastructure (2.3.6.e)	Identify for potential modification or retrofitting with BMPs (6/30/2022) Report on permittee-owned properties and infrastructure inventoried that have been retrofitted with BMPs	Year 4  Beginning with the fifth-year annual report	Consultant

#### **Minimum Control Measure 6: Good Housekeeping and Pollution Prevention (2.3.7)**

The Town is required to implement an operations and maintenance program for Town operations that includes a training component and has a goal of preventing or reducing polluted runoff and protecting water quality from all Town operations.

BMP ID #	BMP Description	Measurable Goal	Deadline	Responsible Person
6.1	Develop operation and maintenance procedures for municipal activities (hardcopy or electronic) (2.3.7.1)	Include municipal activities listed in Parts 2.3.7.1.a–c of the permit  Include as part of the SWMP.	Year 2 (complete)	Consultant
6.1.1	Develop inventory of all permittee owned facilities	Include facilities as described in in Parts 2.3.7.1.a–c of the permit ( <i>Parks/open space, buildings/facilities exposed to stormwater runoff, vehicles/equipment, infrastructure/operations/maintenance</i> )  Review annually/update as necessary.	Year 2 (complete)	Consultant
6.1.1a	Establish procedures for parks and open space (2.3.7.1.a)	address the proper use, storage, and disposal of pesticides, herbicides, and fertilizers (PHF), evaluate lawn/landscaping activities, trash management	Year 2 (complete)	Consultant
6.1.1b	Establish procedures for buildings and facilities (2.3.7.1.b)	Evaluate use, storage, and disposal of potential stormwater pollutants.  Provide employee training  Spill Prevention Plans must be in place  Develop management procedures for dumpsters and other waste management equipment.  Sweep parking lots and keep areas surrounding the facilities clean to reduce runoff of pollutants.	Year 2 (complete)	Consultant
6.1.1c	Establish procedures for vehicles and equipment (2.3.7.1.c)	Procedures for storage of permittee vehicles.  Store vehicles with fluid leaks indoors or use containment until repair  Evaluate fueling areas owned by the permittee or used by permittee vehicles.	Year 2 (complete)	Consultant

		<p>If possible, place fueling areas under cover in order to minimize exposure.</p> <p>Procedures to ensure vehicle wash waters are not discharged to MS4 or to surface waters.</p>		
6.1.6d	Establish procedures for Infrastructure operations and maintenance (2.3.7.1.d)	<p>written program detailing activities and procedures to be implement so MS4 infrastructure is maintained in a timely manner</p> <p>If the permittee has an existing program to maintain its MS4 infrastructure in a timely manner to reduce or eliminate the discharge of pollutants from the MS4, the permittee shall document the program in the SWMP.</p>	Year 2 (complete)	Consultant
		<p>Establish schedule, conduct routine inspections, cleaning and maintenance of catch basins (2.3.7.1.d.ii)</p> <p>Develop a plan for optimizing catch basin cleanings</p>	<p>(complete)</p> <p>Year 1 (complete)</p>	Highway Department Supervisor
		Establish, implement procedures for sweeping and/or cleaning streets, permittee-owned parking lots (2.3.7.1.d.iii)	Once per year in spring (ongoing)	Highway Department Supervisor
		Ensure proper storage of catch basin cleanings and street sweepings (2.3.7.1.d.iv)	Annually (ongoing)	Highway Department Supervisor
		<p>Establish/ implement winter road maintenance procedures including the use and storage of salt and sand;</p> <p>Minimize the use of sodium chloride and other salts, and evaluate opportunities for use of alternative materials</p>	Annually (ongoing)	Highway Department Supervisor

		Ensure that snow disposal activities do not result in disposal of snow into waters of the United States. (2.3.7.1.d.v)		
		Establish/implement inspection & maintenance frequencies and procedures for storm drain systems & all stormwater treatment structures ( <i>water quality swales, retention/detention basins, infiltration structures, proprietary treatment devices</i> ) (2.3.7.1.d.vi)	Annually (ongoing)	Highway Department Supervisor
6.1.2	Reporting	Report on status of inventory required, O&M programs for the permittee-owned facilities and activities in Parts 2.3.7.1.a. – d. and maintenance activities associated with each.	Annually, in annual report (ongoing)	Highway Department Supervisor
6.2	Develop and fully implement a Stormwater Pollution Prevention Plan (SWPPP) for each of the permittee owned or operated facilities (2.3.7.2) <i>The SWPPP is a separate and different document from the SWMP</i>	Facilities include maintenance garages, public works yards, transfer stations, waste handling facilities;  SWPPP shall contain all of the elements listed in Part 2.3.7.2.b.i-vi of the permit beginning on page 54.  Report all findings from site inspections in the annual report.	Year 2	Town Planner
6.2.1	Include the following elements in SWPPP (2.3.7.2.b)	Pollution prevention team, facility and potential pollution sources, stormwater controls.	Year 2	Town Planner
6.2.3	Include the following management practices in the SWPPP (2.3.7.2.b.iv)	Minimize or prevent exposure, good housekeeping, preventative maintenance, spill prevention and response, erosion/sediment control, management of runoff, salt storage piles, training, maintenance of control measures, site inspections	Year 2	Town Planner
		Training	Annual	Town Planner

		Site inspections	Once per calendar quarter	Town Planner
		Piles containing salt must be covered or enclosed by June 30, 2020	(complete)	Completed

### 1.3 Water Quality

The Town of Plaistow is located mostly within the Little River Watershed which is part of the greater Merrimack River Watershed. Within the Town, there are several waterbodies that receive MS4 discharges. Below is a list that includes both their impairments and number of outfalls that discharge into each waterbody. This information was also included in the Notice of Intent when reapplying for this permit.

Waterbody	Number of Outfalls	Impairments
Little River	30	Mercury (fish consumption)
Snows Brook	19	Mercury (fish consumption)
Kelly Brook	7	E. coli, Dissolved Oxygen / DO Saturation, Benthic-Macroinvertebrate Bioassessments (streams, aquatic life), pH (aquatic life), Mercury (fish consumption)
Bryant Brook	10	Mercury (fish consumption)
Seaver Brook	14	Mercury (fish consumption)
Line Brook (Tributary to Bryant Brook)	3	Mercury (fish consumption)
Foote Brook		Mercury (fish consumption)
Camel Hill Brook (Tributary to Kelly Brook)	3	Mercury (fish consumption)
Mankill Brook (Tributary to Seaver Brook)	3	Mercury (fish consumption)

#### 1.3.1 Impaired Waters

Impaired waters in NH (those that do not meet state water quality standards) are categorized according to the severity of impairment, with the most severely impaired waters requiring development of a Total Maximum Daily Load study (TMDL) which includes determination of a maximum pollutant load allocation and waste load allocation that can be assimilated by a water body while attaining state water quality standards. All fresh surface waters in NH are listed as impaired for mercury and are subject to a regional mercury TMDL; however, the mercury source is identified as atmospheric pollution and no special stormwater measures are required for discharges to waters covered by the regional mercury TMDL. Kelly Brook in Plaistow is listed as impaired for E. coli and is subject to the New Hampshire

Statewide Bacteria TMDLs. Kelly Brook is classified under the State of New Hampshire as a Class B water, meaning it is *“Acceptable for swimming and other recreation, fish habitat, and after adequate treatment, for use as water supplies. No disposal of sewage or wastes unless adequately treated. (High aesthetic value.)”* The statewide bacteria TMDL creates a strategy and goals to meet water quality standards for E. coli including specific goals for Kelly Brook. An impaired waters map can be viewed in Appendix E at the end of this document.

### **1.3.2 Drinking Water Supplies**

The Town of Plaistow does not contain any lakes or ponds greater than ten acres within its boundary and therefore does not have any surface water sources that are used for public water supplies. The majority of residents rely on groundwater sources through either a public water system or private well. As outlined in the 2017 MS4 permit, this section of the stormwater management program describes the following details related to drinking water protection:

- Documents all public drinking water sources (surface water and groundwater) that may be impacted by MS4 discharges; and
- Describes measures to avoid or minimize impacts to public and known known private drinking water sources in Plaistow.
- Prescribes protocols for notifying public water suppliers in the event of an emergency.

The Town of Plaistow contains several wellhead protection areas, public water systems, and many private wells and a map of these drinking water resources can be viewed in Appendix E of this document. To protect Plaistow’s drinking water sources, the Town has previously taken measures to avoid or minimize impacts to these drinking water sources. In 2015 their 2001 Source Water Protection Plan was updated and includes the following:

- Identifying potential sources of contamination and assessing threats;
- Developing a management plan; and
- Developing a contingency plan

The assessment of threats includes confirmed contaminant detects, roadways/transportation corridors, sewer lines/onsite septic systems, residential land use, hazardous waste sites, urban land cover, and underground storage tanks. To address these threats, the management plan described in the source water protection plan includes education/outreach, a BMP survey, drinking water source protection signs, salt use, reducing the risk of used motor oil contamination, developing a source water protection committee, updating their existing aquifer ordinance. If an emergency were to occur, the contingency identifies which individuals/agencies should be notified and planning. This includes emergency response, notification of system users. Short-term contingency options, long-term contingency options,

and water system shut down and start up procedures. It should be noted that the Source Water Protection Plan does not include private wells.

The Town will also continue to use protection measures as highlighted in their Source Water Protection Plan, the NHDES “*Recommendations for Implementing Groundwater Protection Measures When Siting or Improving Roadways, 1995*” document and other existing stormwater management references available such as EPA’s stormwater tools which can be found at: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england>.

### **1.4 Special Eligibility Determinations**

As required in Part 1.9 of the 2017 Small MS4 Permit, documentation regarding historic properties, endangered and threatened species, and critical habitat within the Town of Plaistow is required. The Town’s MS4 is an existing system that was previously covered under the 2003 MS4 Permit. The Town does not propose any structural changes to their stormwater program at this time and therefore meets Criterion A in Appendix D of the 2017 NH Small MS4 Permit and there is no potential to have an impact on historic properties. The threatened and endangered species review is currently being updated and after an eligibility determination is made, this SWMP will be updated to include the appropriate documentation.

## **2.0 Program Documents (Plans, Procedures, Inventories, and Maps)**

The Town of Plaistow is currently involved with several programs and activities developed per the minimum control measures in the previous 2003 NH Small MS4 General Permit. These activities have been ongoing since obtaining coverage under the previous permit and continue as required in Part 2.3.1.a in the current 2017 MS4 permit. Town representatives also participate in local and regional stormwater groups and efforts, including:

- Plaistow Stormwater Task Force – a group that meets periodically in each permit year and is primarily responsible for implementing the Town’s stormwater management program;
- Plaistow Source Water Protection Committee – a group organized in partnership with NHDES’ drinking water source protection program;
- Nashua/Manchester Regional Stormwater Coalition – a coalition of municipalities, regulators, agencies, and consultants focused on MS4 activities;
- Regional roundtable discussions with other MS4 communities – hosted a meeting with participants from neighboring communities and the Rockingham Planning Commission.

## 2.1 Public Education/Outreach

The Town of Plaistow has been conducting education and outreach since the previous 2003 NH Small MS4 Permit. Activities include:

- Distribution of information on yard wastes, trash management, and hazardous wastes;
- Coordinating with the New Hampshire Department of Transportation to conduct annual stormwater education at the Pollard Elementary School;
- Includes stormwater program in the Town's Annual Report;
- Involved with hazardous household waste collection days;
- Promotes BMPs on media; and
- Installed dog waste signs in public areas and provides waste collection bags

## 2.2 Public Involvement/Participation

Plaistow has been involved with engaging the public in stormwater activities. Each year, the Town hosts a clean-up event to remove litter/waste from roadsides throughout town. The Conservation Commission also has a booth during the Town's Old Home Day with information on water quality for the public. Local schools are involved with planting vegetation that would improve water quality on Arbor Day and a storm drain stenciling program involving the local schools is in current development. The Town has also placed signs along watershed boundaries along the roadside to make residents aware of water resources.

Although not a requirement of the MS4 Permit, under the direction of the Conservation Commission the Town of Plaistow has been conducting surface water sampling since 2014 (or earlier). Currently, a total of 21 sites are sampled throughout the Town in each of the watersheds. Data collection of surface water sampling does help to gain a better understanding of the water quality in Town.

Surface Water Sampling Location	Location	Surface Water Sampling Location	Location
PCC-01	Corner of Old County Rd. and Wilder Drive	PCC-11	Forrest Rd.
PCC-02	Kelley Rd.	PCC-12	Davis Park
PCC-03	121A	PCC-13	Smith Corner Rd.
PCC-04	Greenough Rd. near Bryant Brook Estates	PCC-14	Hill Haven Rd.
PCC-05	East Rd. - Between Sunrise Terrace and Bryant Woods Rd.	PCC-15	Crane Crossing Rd.



PCC-06	Garden Rd.	PCC-16	Corner of Old County Rd. and Kingston Rd.
PCC-07	Rte. 121	PCC-17	Main St.
PCC-08	Westville Rd.	PCC-18	121A
PCC-09	Pollard Rd.	PCC-19	Corner of Meadowview Dr. and Balsam Way
PCC-10	Mankill Brook Rd.	PCC-20	Hillcrest Ave.
		PCC-21	Plaistow/Hampstead Town Line

Surface water sampling typically occurs on a yearly basis and in 2019 sampling took place on Tuesday, May 28<sup>th</sup>. Each of the samples collected from the twenty-one sites were analyzed for calcium, hardness, sodium, chloride, nitrate, nitrite, iron, manganese, magnesium, biochemical oxygen demand (BOD), total coliform, E. coli, pH, and turbidity as part of the Conservation Commission's annual surface water sampling program. In 2017, DNA testing of E. coli at three of the surface water sample locations (PCC-15, PCC-19, PCC-21) showed one detection of dog DNA at PCC-15, and no detections of human, or ruminant DNA. Only the sample from PCC-15 was analyzed for equine DNA which was not detected. All DNA samples were analyzed at Source Molecular located in Miami, Florida

A map of surface water sampling locations in Plaistow can be viewed in Appendix D. Surface water sampling in Plaistow is expected to continue annually as part of the Stormwater Management Plan although not a requirement of the 2017 permit. Additional DNA testing will likely be conducted in the future at selected sites.

### 2.3 Illicit Discharge Detection and Elimination Program

Under the 2003 MS4 Permit, the Town developed and implemented IDDE procedures. In accordance with the 2017 MS4 permit, the Town has developed a written IDDE plan as presented in Section 4.

Plaistow's previous Illicit Discharge Detection and Elimination (IDDE) program conducted under the 2003 MS4 permit consisted of the following:

- Reviewing existing storm sewer zoning ordinances: Article XV1 Storm Water- Illicit Discharge and Connections and Article X1XA Storm Water- Operation and Maintenance;
- Wet weather monitoring during the spring/early summer following wet weather precipitation criteria has been completed (Under previous permit);
- Dry weather observation of outfalls took place in 2017; and
- GPS mapping of outfalls and catch basins.

The map of all outfalls can be viewed in Attachment A

## **2.4 Construction Site Stormwater Runoff Control**

To comply with the MS4 and to minimize or reduce impacts to water quality from stormwater during active construction, Plaistow has adopted both an ordinance that address BMPs for new construction, SWPPPs, setbacks and disposal of discarded building materials and procedures for site plan review of construction site runoff control, site inspection, enforcement and penalties for non-compliance. Both ordinance and procedures are evaluated regularly.

## **2.5 Post Construction Management**

Post construction includes new development and redevelopment. The Town has prepared an ordinance to address structural BMPs for land disturbance and procedures for site plan review and the review of SWPPPs. Potential contamination sources inspections were conducted. The Town has an ordinance that promotes open drainage systems and groundwater recharge through infiltration systems and plans to create a LID development/stormwater ordinance to be part of the zoning regulations.

Both ordinance and procedures are evaluated regularly.

## **2.6 Good House Keeping and Municipal Programs**

Municipal programs include employee training, street sweeping, and catch basin maintenance. Staff currently participate in stormwater coalition meetings and other training activities. Highway Department staff have quarterly staff meetings which includes topics on salt usage, storage/handling of salt, and how to address any spills of other materials. Training sessions have also been held for the Town Selectmen, Planning Board, and Conservation Commission personnel. Town Highway Department personnel have attended winter maintenance workshops and a Green SnowPro training in Keene, New Hampshire.

Future goals include developing a list of additional training opportunities for highway department personnel and other staff. Continue participation in trainings and stormwater coalition meetings and develop annual training program for Highway Department staff.

Catch basins are cleaned and inspected at least once every two years during the fall and street sweeping is done annually in the spring by an independent contractor hired by the Town. Samples of street sweepings and catch basin material were analyzed in the laboratory in 2016. To date, guidelines on managing street wastes to evaluate reuse/disposal options and requirements are in the process of being revised.

## **3.0 Stormwater System Mapping**

A map of the Plaistow storm sewer system was developed as part of the 2003 MS4 permit (Appendix A) and includes all of the known outfalls, interconnections, piping, and catch basins maintained by the

Town. The State of New Hampshire also operates an MS4 in Plaistow to manage stormwater associated with State highways and property; however, that MS4 is subject to separate coverage under the MS4 permit program and is not included in this SWMP and is not shown on the Town's MS4 system map. Interconnections between the Town and State MS4 systems are subject to the Town's coverage under the permit and are therefore included on the system map. The 2017 MS4 permit requires updates to the system map to include more detailed information and facilitate identification of key infrastructure and factors influencing proper system operation, including the potential for illicit sanitary sewer discharges. System mapping is required to be updated in two phases under the 2017 MS4 permit (Part 2.3.4.5) as specified below:

- Phase I: Within two years of the effective permit date the map will be updated to include the following:
  - Outfalls/receiving waters,
  - Open channel conveyances (swales, ditches, etc.),
  - Interconnections with other MS4s (e.g. State MS4) and other storm sewer systems (e.g. private storm sewer systems),
  - Town-owned stormwater treatment structures (e.g., detention and retention basins, infiltration systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other proprietary systems),
  - Initial catchment delineations. Any available system data and topographic information may be used to produce initial catchment delineations, defined as the area that drains to an individual outfall or interconnection, and
  - Waterbodies (including updated use impairments).
- Phase II: The map will be updated annually as additional information becomes available and within ten years of the effective permit date must include the following elements:
  - Outfall spatial location (latitude and longitude with a minimum accuracy of +/-30 feet),
  - Pipes,
  - Manholes,
  - Catch basins,
  - Refined catchment delineations (updated after catchment investigations),
  - municipal sanitary sewer system (not applicable in Plaistow), and

- municipal combined sewer system (not applicable in Plaistow)
- Additional elements that are recommended to be included in the system map are identified in Part 2.3.4.5.c of the MS4 permit and include:
  - Storm sewer material, size (pipe diameter) and age,
  - Sanitary sewer system material, size (pipe diameter) and age (not applicable in Plaistow),
  - Privately-owned stormwater treatment structures,
  - Where a municipal sanitary sewer system exists, properties known or suspected to be served by a septic system, especially in high-density urban areas,
  - Area where the permittee's MS4 has received or could receive flow from septic system discharges (e.g., areas with poor soils, or high ground water elevations unsuitable for conventional subsurface disposal systems),
  - Seasonal high water table elevations impacting sanitary alignments,
  - Topography,
  - Orthophotography,
  - Alignments, dates and representation of work completed (with legend) of past illicit discharge investigations (e.g., flow isolation, dye testing, CCTV),
  - Locations of suspected, confirmed and corrected illicit discharges (with dates and flow estimates).

As the system map is updated, the SWMP will be revised to include the most up-to-date system map (Appendix A). A summary of progress towards the completion of the system map will also be included in each annual report.

## **4.0 Illicit Discharge Detection and Elimination Program**

The Town has prepared the following Illicit Discharge Detection and Elimination (IDDE) program in conformance with Part 2.3.4.6 of the 2017 MS4 permit. The IDDE program has been developed and implemented to systematically find and eliminate sources of non-stormwater discharges to the Town's stormwater system as well as develop and implement procedures to prevent illicit discharges.

### **4.1 Legal authority and statement of IDDE responsibilities**

The Town of Plaistow added Article XVI "Storm Water- Illicit Discharge and Connections" to the Plaistow Zoning Ordinance in 2010 for the purpose of providing for the "health, safety, and general welfare of the

citizens of the Town of Plaistow through the regulation of non-stormwater discharges to the storm drainage system to the maximum extent practicable as required by federal and state law.” Article XVI of the Plaistow Zoning Ordinance provides adequate legal authority to satisfy Part 2.3.4.a of the 2017 MS4 permit which requires sufficient legal authority to “prohibit illicit discharges; investigate suspected illicit discharges; eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system; and implement appropriate enforcement procedures and actions.”

Implementing the IDDE program is the responsibility of the Plaistow Stormwater Management Program Team as presented in Section 1.1. The Plaistow Building Department led by the chief building officer/code enforcement officer has the primary responsibility in implementing the IDDE program and has legal authority to enforce building codes. Other departments responsible for assisting with development and implementation of the IDDE program include the Health Department, Planning Department, Highway Department, Conservation Commission, and the Town’s environmental consultant.

## 4.2 Assessment and priority ranking of outfalls

The Town has developed an inventory, initial assessment, and priority ranking of Town-maintained outfalls and interconnections in satisfaction of Part 2.3.4.7 of the 2017 MS4 permit. Outfalls are defined as point sources (40 CFR Part 122.2) where the municipal separate storm sewer discharges to waters of the United States. An interconnection is defined as the point where the Town’s MS4 discharges to another MS4 (e.g. state-maintained MS4) or other storm sewer system that ultimately discharges to waters of the United States. Each outfall and interconnection in the Town has been evaluated for potential to have illicit discharges and sanitary sewer overflows (SSOs), and ranked into discrete categories consisting of: problem outfalls, high priority outfalls, low priority outfalls, and excluded outfalls. Outfall categories are as follows:

- **Problem outfalls/interconnections** have known or suspected contributions of illicit discharges based on existing information including where previous screening indicates likely sewer input;
- **High priority outfalls/interconnections** have not been classified as problem outfalls/interconnections and discharge to an area of concern to public health due to proximity of public beaches, recreational areas, drinking water supplies, or shellfish beds based on the conditions listed below or other available information;
- **Low priority outfalls/interconnections** are based on the conditions below or other available information;
- **Excluded outfalls/interconnections** have no potential for illicit discharges and may be excluded from the IDDE program. This includes roadway drainage in undeveloped areas, drainage for athletic fields, parks or undeveloped green space and associated parking without services, cross-country drainage alignments through undeveloped land.

Characteristics for determining outfall categories include:

- Past discharge complaints and reports;
- Poor receiving water quality. Characteristics of high illicit discharge potential include: exceeding water quality standards for bacteria; ammonia levels above 0.5 mg/L; surfactants levels greater than or equal to 0.25 mg/L;
- Density of generating sites. Generating sites are those places, including institutional, municipal, commercial, or industrial sites, with a potential to generate pollutants that could contribute to illicit discharges. Examples of these sites include car dealers; car washes; gas stations; garden centers; and industrial manufacturing areas;
- Age of development and infrastructure. Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old will probably have a high illicit discharge potential. Developments 20 years or younger will probably have a low illicit discharge potential;
- Sewer conversion. Contributing catchment areas that were once serviced by septic systems but have been converted to sewer connections may have a high illicit discharge potential;
- Historic combined sewer systems. Contributing areas that were once serviced by a combined sewer system but have been separated may have a high illicit discharge potential;
- Surrounding density of aging septic systems. Septic systems thirty years or older in residential land use areas are prone to have failures and may have a high illicit discharge potential;
- Culverted streams. Any river or stream that is culverted for distances greater than a simple roadway crossing may have a high illicit discharge potential;
- Water quality limited waterbodies that receive a discharge from the MS4 or waters with approved TMDLs applicable to the permittee, where illicit discharges have the potential to contain the pollutant identified as the cause of the water quality impairment;
- Additional relevant characteristics, including location-specific characteristics.

An initial assessment and ranking has been completed for the Town's outfalls and interconnections. There are currently no problem outfalls or interconnections as there have been no known or suspected illicit discharges to the Town's MS4. High priority and low priority outfalls were identified based on previous sampling results during wet weather outfall investigations in 2009, 2010, and 2014 as well as proximity to the bacteria-impaired segments of Kelly Brook and Seaver Brook, and proximity to generating sites as specified above. For the initial ranking and prioritization, high priority outfalls/interconnections were considered any outfall/interconnection with a history of exceedances of the NH E. coli standard for surface waters of 406 cts/100mL, any outfall/interconnection discharging to

the impaired segments of Kelly Brook or Seaver Brook, or any outfall/interconnection that receives runoff from generating sites. Low priority outfalls/interconnections were determined as those outfalls that do not have any of the characteristics of high priority outfalls/interconnections. There were no excluded outfalls/interconnections identified in the initial ranking. The initial assessment and priority ranking will be updated following completion of the dry weather outfall and interconnection screening detailed in Section 4.3. A summary of the priority ranking is presented in the table below and the outfall list is included as Appendix G.

Priority	Number of Outfalls/Interconnections
Problem	0
High Priority	46
Low Priority	52
Excluded	0

### 4.3 Dry weather outfall and interconnection screening and sampling procedure

All high and low priority outfalls and interconnections, as determined in the initial ranking summarized in Section 4.2, are required to be inspected for the presence of dry weather flows within three years of the permit effective date in accordance with Part 2.3.4.7.b of the 2017 MS4 permit. The Highway Department supervisor and the Town's environmental consultant are responsible for completing the dry weather screening and sampling procedures beginning with high priority outfalls/interconnections and proceeding to low priority outfalls/interconnections within the required three year timeframe. Problem outfalls/interconnections and excluded outfalls/interconnections are not required to be inspected for dry weather flows under the 2017 MS4 permit.

#### Weather conditions

Dry weather screening and sampling requires sufficiently dry antecedent conditions to ensure there are no stormwater flows in the storm sewer system and to isolate the effects of potential illicit discharges. At a minimum, there must be no more than 0.1 inch of rain falling in the 24 hours preceding the dry weather screening with no significant snowmelt that would be capable of producing runoff. Dry weather screening will occur only when weather conditions are clearly supportive of this requirement and will not occur when there is a forecast for >0.1 inch of rain or when any measurable rainfall has occurred in the 24 hours preceding dry weather screening.

#### Screening requirements and procedures

Outfalls and interconnections will be screened in the field using the procedures outlined in this section and results will be recorded on a Dry Weather Screening Field Data Sheet (Appendix G). Outfalls and interconnection will be visited sequentially based on the initial assessment and priority ranking (Section 4.2) with high priority outfalls/interconnections visited first followed by low priority



outfalls/interconnections. Field visits will be conducted by a two member team consisting of members of the stormwater program management team (Section 1.1) including at least one Town representative for safety and to coordinate access onto private property, when necessary. A Town Highway Department vehicle will be used during screening for visibility/authority and all roadway safety procedures will be adhered to including Town safety requirements as well as any applicable contractor safety requirements. Special care must be taken when opening manhole covers to restrict access to the manhole and to mark the opening (e.g. with cones or a barrier) and to not leave the manhole open any longer than necessary. Each outfall will be accessed, photographed, and documented to include all of the information listed on the Dry Weather Screening field data sheet summarized below:

- Outfall/interconnection id
- Receiving water body
- Photo ids
- GPS waypoint id or latitude/longitude
- Inspection date and time
- Weather conditions
- Shape and dimensions of structure opening
- Material of structure
- Physical condition of structure and discharge area
- Indicators of potential non-stormwater discharges including:
  - presence or evidence of flow
  - odor, color, turbidity, floatables, or oil sheen

Notes on the field data sheet should also include a description of the local catchment draining to an outfall/interconnection to assist with system mapping and catchment investigations. Additional information may include a sketch and should include a description of the point of discharge (e.g. direct discharge to a stream, discharge to an open field, etc.), observable contributing area, and description of the conveyances. If an obvious catchment boundary is accessible it should be described on the field data sheet and marked with a GPS point.

If an outfall or interconnection is inaccessible or unobservable (e.g. submerged) during dry weather inspections, then screening should proceed to the first upgradient access point where the storm sewer can be observed and accessed. The accessible location must be identified on the field data sheet



including the GPS location and a description of the location relative to the outfall or interconnection. If there is evidence of an illicit discharge but there is no active flow at the time of dry weather screening then follow up screening and sampling must be completed within one week, if practicable, during dry weather conditions. Following completion of dry weather screening, the outfall/interconnection inventory will be updated with the information collected on the field data sheets.

## Sampling

If dry weather flows are documented at any outfall or interconnection (or any other part of the storm sewer system), then at least one sample will be collected for laboratory analysis from the outfall or as close to the source as possible. When dry weather flow is observed, a preliminary investigation should be completed immediately to identify the potential source of the dry weather flow and determine whether an illicit discharge is likely. The preliminary inspection should proceed from the outfall or interconnection upgradient as practicable until a source(s) is located or flow is no longer detectable. Any findings are to be documented on the dry weather screening field data forms and photos of the flow conditions and potential source(s) should be taken, and GPS locations should be marked. Any outfall with dry weather flow will be prioritized for catchment investigation as detailed in Section 4.4.

Samples and field measurements will be collected at or immediately above the point of discharge from the outfall or interconnection. Samples must not be collected beyond the point of discharge to ensure that a representative sample is collected from the storm sewer away from the influence of mixing with surface waters or possible contamination in areas of standing water. Samples for laboratory analysis will be collected first using a grab sample method collected either directly into the bottle or by collecting in a clean container (e.g. unused sample bottle or dip sampler) and transferring to the sample bottle. Bacteria samples must be collected directly into the sterile sample bottles provided by the laboratory. Any sampling vessel that is not a laboratory-provided bottle must be triple rinsed with distilled water and triple rinsed with sample water prior to use or reuse. Any sample containers with preservative already added should be filled from a transfer vessel to avoid losing preservative (with the exception of bacteria samples). Unused nitrile gloves must be worn when collecting samples and care must be taken to minimize handling of the sample bottle to avoid contamination. The opening of the sample bottle and the inside of the cap must not be touched and should not come into contact with the ground. Samples should be preserved according to laboratory requirements including immediate storage on ice in a closed container (cooler). A chain of custody provided by the laboratory is to be filled out at the time of sample collection and proper chain of custody procedures should be followed as specified by the laboratory.

Following collection of samples for laboratory analysis, field measurements are to be taken with a water quality meter and recorded on a dry weather screening field data form. Measurements should be taken in the same location as where laboratory samples are collected if there is sufficient depth to fully immerse the instrument sensors. If the depth is insufficient for measurements then a cleaned and rinsed container must be filled with sample water and field measurements taken immediately in the container of sample water. Field measurements are to be taken in accordance with manufacturer protocols and a copy of the instrument manual should be accessible during dry weather outfall

screening. The following parameters are to be analyzed for all samples collected during dry weather screening:

- Ammonia (laboratory analysis);
- Chlorine (laboratory analysis);
- E. coli (laboratory analysis);
- Surfactants (laboratory analysis);
- Temperature (field measurement);
- Conductivity (field measurement);
- Salinity (field measurement).

All samples are to be transferred to the analytical laboratory as soon as possible and must meet the required analytical hold times. Prior to sampling, the laboratory should be contacted to determine whether hold times can be met and when samples need to be transferred in order to meet the required hold times. For example, some laboratories cannot accept bacteria samples past early afternoon on Fridays (i.e. due to the sample processing timeframe and being closed on weekends) and dry weather screening should be scheduled in coordination with lab sample processing requirements.

### **Follow up ranking of outfalls and interconnections**

The initial priority ranking of outfalls and interconnections will be evaluated and updated based on the findings from the dry weather flow screening. If there are any indications of illicit discharges resulting from the dry weather flow screening, those outfalls and interconnections will be categorized as problem outfalls/interconnections and will be prioritized for catchment investigation as in Section 4.4. Other outfalls/interconnections may also be re-categorized into high or low priority outfalls/interconnections based on field-collected information. If any outfall/interconnection is found to be located entirely within an undeveloped catchment or otherwise meets the definition of an excluded outfall/interconnection then it will be re-categorized as an excluded outfall/interconnection.

## **4.4 Catchment investigation procedures**

The 2017 MS4 Permit has requirements for developing a catchment investigation procedure as part of the IDDE program. The catchment investigation procedure allows for illicit discharges to be identified and located within the stormwater system. Per the MS4 permit the catchment investigation procedure identifies “maps, historic plans and records, and other sources of data, including but not limited to plans related to the construction of the storm drain and of sanitary sewers, prior work performed on the storm drains or sanitary sewers, board of health or other municipal data on septic system failures or required upgrades, and complaint records related to SSOs, sanitary sewer surcharges, and septic system breakouts. These data sources will be used in identifying system vulnerability factors within each

catchment.” The Plaistow MS4 system (i.e. town-maintained, excluding NHDOT MS4 system) consists primarily of open channel conveyance and few historical plans or records exist that identify the storm sewer system. There is no Town-owned or operated sanitary sewer in Plaistow, and sanitary sewer connections are limited to the Town Line Plaza development at 4 Plaistow Rd which is connected to the City of Haverhill, MA sanitary sewer system. No sanitary sewer overflows (SSO) or historic SSOs are known to exist in Plaistow.

The MS4 permit also requires the inclusion of a “manhole inspection methodology that shall describe a storm drain network investigation that involves systematically and progressively observing, sampling (as required below) and evaluating key junction manholes (see definition in Appendix A) in the MS4 to determine the approximate location of suspected illicit discharges or SSOs. The manhole inspection methodology may either start from the outfall and work up the system or start from the upper parts of the catchment and work down the system or be a combination of both practices. Either method must, at a minimum, include an investigation of each key junction manhole within the MS4, even where no evidence of an illicit discharge is observed at the outfall. The manhole inspection methodology must describe the method the permittee will use. The manhole inspection methodology shall include procedures for dry and wet weather investigations.” The Town will utilize a downstream to upstream investigation procedure beginning with the location where evidence of an illicit discharge was first detected and progressing up through the storm sewer to identify and isolate the source.

For each catchment being investigated, the Town will review any relevant mapping and historic plans and records gathered in accordance with Part 2.3.4.8.b.i. of the MS4 permit. This review will be used to identify areas within the catchment with higher potential for illicit connections. The Town will identify and record the presence of any System Vulnerability Factors (SVFs) as identified in the MS4 permit. The majority of SVFs are related to sanitary sewer infrastructure and therefore do not apply to Plaistow, where there is no sanitary sewer. The SVFs that could potentially apply in Plaistow include:

- Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);
- History of multiple Board of Health actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);

There is no history of either of the above SVFs in the Town of Plaistow. If one or more of the above SVFs is documented in Plaistow the catchment(s) in which the SVF is identified will be documented in the IDDE program and will be subject to wet weather sampling requirements.

For each catchment under investigation as a result of illicit discharge detections, the Town is obligated under the MS4 permit to inspect key junction manholes and gather catchment information on the locations of MS4 pipes, manholes, and the extent of the contributing catchment. The storm sewer system in Plaistow (excluding NHDOT-maintained MS4) consists of open drainage; therefore, the

location of MS4 pipes and manholes does not apply. The extent of the contributing catchment will be determined as part of the catchment investigation process.

For all catchments under IDDE investigation, infrastructure information will be incorporated into the Town's mapping required in Part 2.3.4.5 of the MS4 permit; the Town will refine the catchment delineation based on the field investigation as appropriate. The SVF inventory for the catchment will be updated based on information obtained during the inspection, although this would be limited to new SVF discoveries as no SVFs are currently recognized in Plaistow. Where a minimum of one SVF is identified, a wet weather investigation will be conducted at the associated outfall. During dry weather, the storm sewer system, starting at the location of the SVF, will be systematically inspected for visual and olfactory evidence of illicit connections (e.g., excrement, toilet paper, gray filamentous bacterial growth, or sanitary products present). If flow is observed, the Town will sample the flow at a minimum for ammonia, chlorine and surfactants. Where sampling results or visual or olfactory evidence indicate potential illicit discharges, the area draining to the SVF will be flagged for further upstream investigation. Upstream investigation will proceed until the location of suspected illicit discharges can be isolated. If no evidence of an illicit discharge is found, the catchment investigation will be considered complete upon completion of dry weather sampling. For all catchments with a minimum of one SVF identified the Town will meet the requirements above for dry weather screening and will inspect and sample under wet weather conditions to the extent necessary to determine whether wet weather-induced high groundwater in areas served by septic systems result in discharges of sanitary flow to the MS4. The Town will conduct at least one wet weather screening and sampling at the outfall that includes the same parameters required during dry weather screening, Part 2.3.4.7.b.iii.4. of the MS4 permit. Wet weather sampling and screening will proceed during or after a storm event of sufficient depth or intensity to produce a stormwater discharge. All data collected as part of the dry and wet weather catchment investigations will be recorded and reported in each annual report.

Where the source of an illicit discharge has been approximated within the MS4, the Town will isolate and identify/confirm the source of the illicit discharge using more detailed methods. For outfalls that contained evidence of an illicit discharge, catchment investigations will be considered complete upon confirmation of all illicit sources. Procedures to isolate and confirm sources of illicit discharges within a catchment include isolation of the drainage area for implementation of more detailed investigations, inspection along the open conveyance alignment to refine the location of potential contaminant sources, and methods such as targeted internal plumbing inspections, dye testing, video inspections, or smoke testing to isolate and confirm the sources.

When the specific source of an illicit discharge is identified, the Town will exercise its authority as necessary to require its removal pursuant to Part 2.3.4.2 or 2.3.4.3. I of the MS4 permit. For each confirmed source the Town will include in the annual report the following information:

- the location of the discharge and its source(s);
- a description of the discharge;
- the method of discovery;
- date of discovery;

- date of elimination, mitigation or enforcement action OR planned corrective measures and a schedule for completing the illicit discharge removal; and
- an estimate of the volume of flow removed.

Within one year of removal of all identified illicit discharges within a catchment area, confirmatory outfall or interconnection screening will be conducted. The confirmatory screening will be conducted in dry weather unless SVFs have been identified, in which case both dry weather and wet weather confirmatory screening will be conducted. If confirmatory screening indicates evidence of additional illicit discharges, the catchment will be scheduled for additional investigation.

The Town will use indicators for tracking program success (such as the absence of dry weather flow from outfalls, improvement in stormwater quality, etc.) and evaluate and report on the overall effectiveness of the IDDE program in each MS4 annual report, including:

- the number of illicit discharges identified and removed,
- the number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure,
- all dry weather and wet weather screening and sampling results and
- the volume of sewage removed.

Upon completion of all catchment investigations pursuant to Part 2.3.4.8.c of the MS4 permit and illicit discharge removal and confirmation (if necessary) pursuant to paragraph 2.3.4.8.e of the MS4 permit, each outfall or interconnection will be reprioritized for screening in accordance with Part 2.3.4.7.a of the MS4 permit and scheduled for ongoing screening once every five years. Ongoing screening will consist of dry weather screening and sampling consistent with Part 2.3.4.7.b of the MS4 permit; wet weather screening and sampling will also be conducted at outfalls where wet weather screening was required due to SVFs and will be conducted in accordance with Part 2.3.4.8.c.ii of the MS4 permit. All sampling results will be reported in the Town's annual report.

The Town will, at a minimum, annually provide training to employees involved in IDDE program about the program, including how to recognize illicit discharges and SSOs. The Town will report on the frequency and type of employee training in the annual report.

## **5.0 Construction Site/Post-Construction Stormwater Management**

The Town of Plaistow has developed a construction site stormwater runoff control program in accordance with Part 2.3.5 of the 2017 MS4 permit to minimize or eliminate erosion and maintain sediment on construction sites so that it is not transported in stormwater and allowed to discharge from the Town's MS4 to a water(s) of the US. The construction site stormwater runoff control program

applies to construction projects that result in a land disturbance of one or more acres or disturbances of less than one acre if part of a larger common plan of development or sale that would disturb one or more acres consistent with the 2017 MS4 permit. Projects that receive a waiver from the EPA under the provisions of 40 CFR Part 122.26(b)(15)(i) may be exempt from the construction site stormwater runoff control program. In addition, the Towns Stormwater – post construction zoning ordinance (Section 5.1) includes more restrictive stormwater requirements for construction projects meeting certain criteria.

### **5.1 Construction Site Stormwater Runoff Control Ordinance**

Article XVIA (Storm Water – Post Construction) of the Plaistow Zoning Ordinance (Appendix F) is the regulatory mechanism through which the Town implements the construction site stormwater runoff control program including the requirements for controlling runoff and sediment controls at construction sites. Any applicant for a land use related permit from the Town is required to submit a construction stormwater management and erosion control plan to the Planning Board or their agent for any tract of land being developed, redeveloped or subdivided, and for any tract of land being subdivided or developed in a manner which would be subject to site plan review, where one or more of the following conditions are proposed:

- A cumulative disturbed area exceeding 20,000 square feet.
- Construction or reconstruction of a street or road.
- A subdivision of two or more building lots.
- Proposed work adjacent to a wetlands buffer.
- Disturbed critical areas (disturbed areas of any size within 50 feet of any wetland; 100 feet of a Public Water Protection Wetland (as defined in Plaistow Zoning Ordinance, Article IV); disturbed areas exceeding 2,000 square feet in highly erodible soils; or, disturbed areas containing slope lengths exceeding 25 feet on slopes greater than 10 percent).

The Planning Board can issue a waiver to the Stormwater - Post Construction ordinance if the applicant provides sufficient supporting evidence; however, the 2017 MS4 permit requirements and EPA 2017 Construction General Permit requirements, if applicable, would not be affected by issuance of a Town waiver.

### **5.2 Requirements and procedures for site plan review, site inspections, and enforcement of sediment and erosion control measures**

As required in the Town’s Stormwater – Post Construction zoning ordinance (Section 5.1), the Town has adopted procedures for site plan review to address stormwater, erosion, and sedimentation controls associated with construction sites and post-construction site management. The Town also tracks and reports (in the MS4 annual report) the number of site reviews, inspections, and enforcement actions that have been completed. The site plan review procedures are detailed in the Town’s Stormwater -



Post Construction zoning ordinance (Appendix F) which meet the requirements of Part 2.3.5 of the 2017 MS4 permit as summarized below:

- Pre-construction review of site plans are completed by the Plaistow Planning Board, or its designated agent, and include the requirements for review of the site design (Article XVIA – Part 220-117.3), the planned operations at the construction site (Article XVIA – Part 220-117.3.5), planned BMPs during the construction phase (Article XVIA – Part 220-117.3.4), and the planned BMPs to be used to manage runoff from the completed development site (Article XVIA – Part 220-117.5);
- Any proposed site construction or development activity subject to the Town stormwater – post construction zoning ordinance is required to have a stormwater management report that includes consideration of potential water quality impacts from construction activities (Article XVIA – Part 220-117.3.5);
- Site review for construction and development projects occurs during Planning Board meetings that are open to the public and provides an opportunity for receipt and consideration of information submitted by the public;
- Low Impact Development (LID) design elements and strategies are encouraged for construction and development projects;
- Site inspections are the responsibility of the site plan applicant (Article XVIA – Part 220-117.3);
- The code enforcement officer is responsible for and has authority to implement enforcement procedures for construction site stormwater, erosion, and sedimentation controls (Article XVIA – Part 220-117.4).

### **5.3 Requirement to implement a sediment and erosion control program**

Part 2.3.5.c of the 2017 MS4 permit includes the requirement for construction operators to implement a sediment and erosion control program including the use of BMPs appropriate for the conditions at the construction site. Construction activities in Plaistow are also subject to the requirements of the EPA's 2017 Construction General Permit (CGP) which applies to: construction sites that will disturb one or more acres of land and construction sites that will disturb less than 1 acre of land if part of a larger common plan of development (unless an activity is already covered under another NPDES permit for the same discharge). The 2017 CGP requires the operator of the construction site to develop and implement a stormwater pollution prevention plan (SWPPP) and includes requirements for oversight and inspection of construction sites. Construction site operators meeting the 2017 CGP applicability criteria must submit a Notice of Intent (NOI) and adhere to the conditions and schedules of the permit (see EPA's CGP website at: <https://www.epa.gov/npdes/epas-2017-construction-general-permit-cgp-and-related-documents>). Article XVIA of the Plaistow Zoning Ordinance (Appendix F) includes the requirement for site plan applicants to design and submit to the Plaistow Planning Board a permanent stormwater management and erosion control plan. This site plan requirement satisfies the requirements of Part 2.3.5.c of the 2017 MS4 permit. Examples of control measures required in the stormwater – post construction zoning ordinance include:

- Minimizing the amount of disturbed area and protection of natural resources (Article XVIA – Part 220-117.3);
- Stabilizing sites when projects are complete or operations have temporarily ceased (Article XVIA – Part 220-117.3)
- Utilizing, as a minimum, the stormwater, sediment, and erosion control BMPs specified in the NHDES publication “New Hampshire Stormwater Manual” and the Rockingham County Conservation District, NHDES, and Natural Resources Conservation Service publication “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”;
- Providing a schedule and procedural details for regular inspection and maintenance of all BMPs during and after construction (Article XVIA – Part 220-117.3)

#### **5.4 Requirements for Submission of As-Built Drawings during Site Plan Review**

For projects subject to Plaistow zoning ordinance Article XVIA (Storm Water – Post Construction) the Town requires the submission of as-built drawings within two years from completion of construction projects. The requirement for submission of as-built drawings satisfies the requirements of Part 2.3.6.b of the 2017 MS4 Permit. As-built drawings submitted for Plaistow site plan review must depict all on-site controls designed to manage the stormwater associated with the completed site (post-construction stormwater management). The site plan review process also includes requirements to ensure adequate long-term operation and maintenance of stormwater management practices that remain in place after the completion of a construction project. The details of the requirements for as-built drawings and long-term operations and maintenance of stormwater controls can be found in Article XVIA of the Plaistow Zoning Ordinance (included as Appendix F). The Town will report in the MS4 annual report on the measures that the Town has utilized to meet this requirement.

### **6.0 Operations & Maintenance Programs**

The Town is required under Part 2.3.7.1 of the MS4 permit to develop an inventory of all parks and open space, buildings and facilities, as well as vehicles and equipment and develop operations and maintenance procedures for these municipal assets. The list of Town Assets consists of:

#### **Parks and open space**

- Plaistow Athletic and Recreational Complex
- Ingalls Terrace Park
- Plaistow Town Forest

#### **Buildings and facilities where pollutants are exposed to stormwater**

- Plaistow Municipal Works Building
- Plaistow Public Safety Building



- Plaistow Town Offices
- Plaistow Library
- Plaistow Cemetery – Elm Street

### Vehicles and Equipment

- Highway Department
  - Snow plow/ dump trucks
  - Sidewalk plow (Holder)
  - Pickup truck
  - Loader
  - Backhoe
  - Mowing equipment
  - Roadside mowing tractor
  - Wood chipper
  - Handheld power tools
- Police department
  - Police cruisers
- Fire Department
  - Fire trucks
  - Ambulance
  - Handheld power tools

In parks and open space as identified above, the Town the Town is developing procedures to address the proper use, storage, and disposal of pesticides, herbicides, and fertilizers (PHF). The Town has adopted policies and training for staff that includes minimizing the use of these products and using them only in accordance manufacturer's instruction. Town highway department staff periodically evaluate lawn maintenance and landscaping activities to ensure practices are protective of water quality including review of best management practices (BMPs) for landscaping activities. Such protective practices include consideration of reduced use of PHFs, integrated pest management (IPM), recycling or proper disposal of lawn clippings and other vegetative waste, and use of native and drought resistant landscaping materials. The Town has established procedures for management of trash containers at parks which includes scheduled disposal and ensuring a sufficient number of containers are present. At several public spaces (cemetery, Ingalls Terrace Park, PARC facility, and Town Hall) the Town has provided signage and collection bags for encouraging the proper disposal of pet wastes. Town staff and members of the Plaistow Stormwater Task Force are trained to identify erosion or poor vegetative cover and inform the Highway Department of the need for repairs.

At Town-owned and maintained buildings and facilities where pollutants are exposed to stormwater runoff, as identified above, operations and maintenance practices are in place to ensure protection of water quality. These practices include periodic evaluation of the use, storage, and disposal of petroleum products and other potential stormwater pollutants. In 2013 the Town was awarded a \$19,995.70 grant to update the Town's Source Water Protection Plan, to review/update the Aquifer Protection Ordinance, to review existing groundwater protection rules, and to develop a BMP inspection/survey program for Potential Contamination Sources (PCSs) with the updated Source Water Protection Plan being approved by the NHDES Drinking Water and Groundwater Bureau in January of 2016. The policies and practices developed from this program continues and includes Town-owned facilities. The Town continues to provide employee training, including review and participation in developing this SWMP, as necessary so that those responsible for handling these products know proper procedures. Spill Prevention Plans have been developed for Town facilities and include all necessary procedures for addressing spills.

All vehicles and equipment operated and maintained by the Town are subject to established procedures for the protection of surface water quality. Vehicles with fluid leaks are required to be stored indoors. If indoor storage is impractical then fluid containment is provided until repaired. Fueling areas owned by the permittee were reviewed under the PCS inspection program in coordination with NHDES and evaluated for best practices. The Town diesel fueling area is located under cover in order to minimize exposure. Town staff have received training on MS4 permit requirements and are aware that vehicle wash waters are not to be discharged to the municipal storm sewer system or to surface waters.

## **7.0 MS4 Infrastructure Maintenance Program**

The Town-maintained MS4 consists primarily of open conveyances with culvert road crossings and short segments of piping connecting catch basins and some points of discharge. A number of catch basins are also utilized to trap debris in stormwater and improve the efficiency of the stormwater system. The MS4 has been inspected regularly as part of the 2003 MS4 dry weather outfall screening program and under the 2017 MS4 permit program. The MS4 is also inspected in the event of an IDDE investigation as well as during annual cleaning and maintenance. Town roadways and parking lots are swept once per year in the spring to ensure the functioning of the storm sewer system. Town catch basins are also cleaned once per year in the fall to remove accumulated debris and restore the functioning and capacity of each catch basin. The Town does not operate any stormwater BMP infrastructure and therefore no BMP maintenance schedule is required.

## **8.0 Assessment of Current Street Design and Parking Lot Guidelines**

As required in Part 2.3.6.c of the 2017 MS4 Permit, as modified, the Town of Plaistow was required to develop a report assessing current street design and parking lot guidelines and other local requirements

that affect the creation of impervious cover. This section of the SWMP summarizes and reports the findings of the assessment completed in satisfaction of the Part 2.3.6.c requirements. This assessment is to be used to determine whether the Town's design standards for streets and parking lots can be modified to support low impact design options.

In the Town of Plaistow, the primary regulations that affect street design, parking lot guidelines, and other development sources of new impervious cover are the Plaistow Zoning Ordinance, Plaistow Site Plan Review Regulations, and Plaistow Subdivision Regulations. These regulations were reviewed and compared to model guidance, including the Massachusetts Department of Environmental Protection "Street Design and Code Infrastructure Checklist" spreadsheet document<sup>1</sup>, to assess the current requirements and determine whether there were opportunities for modification. A summary of the checklist evaluation is provided below in Table XX.

**Table 8.1 Street Standards in Subdivision Regulations – Rights of Way**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
N	Is the minimum right of way width less than 45 feet for a residential street? (For 500 ADT, between 33 and 36 feet?)	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Design Standards. Major street: 60', Secondary street non-residential: 60', secondary street residential: 50', minor street: 50'.	Planning Board to consider establishing minimum and maximum standards to meet the needs for safe, efficient, and effective use per traffic volume to reduce the overall area disturbed during development.	2023
N	Are street cross sections provided to show how elements of a right of way might vary given different contexts?	No illustrations available in Town Regulations or other Town resources	Town to provide resources and illustrations for street cross sections to include low impact designs. Such drawings can provide a clear understanding about objectives and efficient and effective use of the right of way area in different contexts, bringing together "complete streets" considerations of accommodating different modes of transportation with "green streets" objectives of reducing impervious surface and	2023

<sup>1</sup> <https://www.mass.gov/doc/street-design-and-code-infrastructure-checklist>

			improving stormwater management.	
N	Do the regulations limit clearing and grubbing within the right-of-way to the minimum necessary?	None	Planning Board to consider developing guidelines and/or regulations for limiting clearing and grubbing. Developers are encouraged to limit clearing within the right-of-way to the minimum necessary to construct the roadway, drainage, sidewalk, and utilities, and to maintain site lines. Under this approach, it is not required to clear and grub the entire right-of-way.	2023
Y	Are street trees required for new streets?	Plaistow Site Plan Review Regulations: ARTICLE III, Landscaping, § 230-23, Open space, screening and buffering, Front buffer strip. Front buffer strip - 12 ft wide continuous strip parallel to the frontage along any public right-of-way. One indigenous shade tree for every 25 feet of right-of-way frontage. Trees - minimum of 2 1/2 inches in caliper, branching height six feet above grade.	Planning Board to consider allowing approved vegetated LID practices to meet front buffer strip requirements, including bioretention areas, vegetated swales, planter boxes, rainwater harvesting systems, and other LID practices if part of an approved stormwater management plan for the site.	2023

**Table 8.2 Street Standards in Subdivision Regulations – Utilities**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
Y	Does the code allow utilities to be placed under the paved section of the ROW?	Plaistow Subdivision Regulations: § 235-37, Utilities. Unless otherwise approved by the Board, electric, telephone, cable television distribution, and alarm systems shall be placed underground, including services to streetlights. The	Planning Board to consider recommendations for buried utilities. Utilities (electric, telephone, cable TV, fiber optic, and all other conduits) may be located under the roadway or immediately adjacent to the roadway (within 1 to 2 feet) to optimize use of the right of way	2023

		subdivider/developer shall coordinate subdivision design with the utility companies to ensure adequate and suitable area for underground installations.	area for swales and other stormwater management facilities, sidewalks, and street trees.	
Y	Does the code allow utilities to be placed immediately adjacent to the paved section of the ROW?	Plaistow Subdivision Regulations: § 235-37, Utilities. Unless otherwise approved by the Board, electric, telephone, cable television distribution, and alarm systems shall be placed underground, including services to streetlights. The subdivider/developer shall coordinate subdivision design with the utility companies to ensure adequate and suitable area for underground installations.	Planning Board to consider recommendations for buried utilities. Utilities (electric, telephone, cable TV, fiber optic, and all other conduits) may be located under the roadway or immediately adjacent to the roadway (within 1 to 2 feet) to optimize use of the right of way area for swales and other stormwater management facilities, sidewalks, and street trees.	2023

**Table 8.3 Street Standards in Subdivision Regulations – Roadway Widths and Lengths**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
Y/N	Is paved roadway width between 18 and 22 feet in low density residential developments with no bicycle lanes present? Low density residential neighborhoods are those with less than 400 average daily trips according to AASHTO, 2001.	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Design Standards. Minor street 22", Residential 24".	Planning Board to consider paved roadway width requirements. Standards should derive from careful considerations with public works and emergency response officials of traffic volume, on-street parking (where required), and passage of emergency vehicles and school buses.	2023

NA	At higher densities, are parking lanes allowed to also serve as traffic lanes (i.e., queuing streets)?	None	No recommendations	-
N	Are narrower pavement widths allowed on road sections where there are no houses, buildings, intersections, or on-street parking spaces?	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Design Standards. Pavement width, Major street: 40', secondary street non-residential: 32", secondary street residential: 24", minor street 22". All proposed streets shall be required to add a minimum four-foot paved shoulder to at least one side of all roadways determined by the Planning Board.	Planning Board to consider narrower pavement width exceptions. Local street standards to consider design speed, street type, and traffic volume on arterial and residential roads to allow for more compact roadways and intersections. Allow for curb extensions such as pinch points, gateways, and chicanes to narrow roadways and utilize street space for pervious pavement or bioretention.	2023
N	Are reductions in frontage distances allowable where appropriate (i.e. open space developments, around cul-de-sacs, and along outside sideline of curved streets) to increase number of homes per unit length and to minimize street length?	Frontages defined in Plaistow Zoning Ordinance Articles V – VII. Frontages vary from 100-200 ft depending on building type and district.	Planning Board to consider variances or reduction on frontage/buffer zones to increase the number of homes per unit length and minimize overall impervious cover creation and land disturbance.	2023
N	Are developers encouraged to explore alternative street layouts to increase the number of homes per unit length and minimize the length of the roadway?	None	Planning Board to consider providing recommendations and resources for designing alternative street layouts to increase home density and reduce road lengths.	2023

N	Can permeable paving be used for residential roads, shoulders, and parking lanes?	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Design Standards. Paving of roads and streets. Bituminous concrete paving for all roads and streets shall conform to the Standard Specifications.	Planning Board to consider revising standards and, where appropriate, allow use of permeable for road shoulders/parking lanes in residential neighborhoods and for sidewalks as compatible with Americans with Disabilities Act and other design standards.	2023
N	Do alignments specify: Streets ought to be located in order to protect important natural features, avoiding low areas and steep slopes in particular?	None	Planning Board to consider guidance for street alignments. Best practices include: Streets shall be located and designed to minimize: 1. disturbance of the site's natural features and environmentally sensitive areas, including low areas and steep slopes, native vegetation, and trees with a trunk diameter measured at 4.5' DBH (Diameter at Breast Height), breast height of 8 inches or more; 2. cut and fill, thereby reducing disturbance of native soils; 3. unnecessary contouring of the site to preserve natural topography.	2023

**Table 8.4 Street Standards in Subdivision Regulations – Cul-de-Sacs**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
Y	Are dead ends discouraged by the regulations? (e.g. by encouraging or requiring connected streets or one-way loop streets)?	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Dead-end streets. Should a street be dead-end as of October 31 of any year, a turnaround shall be provided beyond the furthest bounds of the last approved lot, or the subdivider shall be responsible for snow removal	Planning Board to consider guidance for discouraging dead end roads. A connected road network is of great importance to a functioning and efficient road network, reducing response time for public safety officials.	2023



		cost incurred in plowing all unaccepted roads.		
NA	Are landscaped/biorete ntion islands allowed in the center of cul-de- sacs?	None	Planning Board to consider guidance for encouraging landscaped/bioreten tion islands in the center of cul-de-sacs. Recommendations include: all dead-end streets with turnaround islands may be planted with trees and/or other vegetation or left with natural tree growth in lieu of paving the entire area of the island. The maintenance of the inner circle shall be the responsibility of developers, their successors and assigns, or a homeowners' association.	2023
NA	If curbing for cul- de-sacs is required, is it allowed to be perforated or notched to enable the flow of stormwater into the island area?	None	Planning Board to consider guidance for curbing in cul-de-sacs. Recommendations include: where soils are conducive to infiltration (Natural Resource Conservation Service hydrologic soils group A or B), the center island may serve as a stormwater bioretention area with notched or perforated curbing to allow for entry of storm flows. Invisible curbing, where granite curbing forms an at-grade edge with the asphalt, may also be permitted in this situation.	2023
Y	Is minimum required radius for a cul-de-sac set for LID purposes?	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Design Standards. Minimum edge of pavement radius of cul- de-sac 50' for subdivisions.	No changes. Recommendations include: to minimize impervious cover, maximum paved diameter for cul-de-sacs should be based on the required turning radius for emergency response vehicles and allow for landscaped islands. Sustainable Neighborhood Road Design recommends 50-foot outside radius with vegetated center island.	-



N	Are alternative turnarounds such as hammerhead allowed on short streets in low density residential developments?	Plaistow Subdivision Regulations: § 235-32, Construction of roads, Dead-end streets requires providing a turnaround on any dead end street.	Planning Board to consider updating guidance on dead-end street turnarounds to include allowing hammerhead turnaround over cul-de-sac where appropriate.	2023
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**Table 8.5 Street Standards in Subdivision Regulations – Sidewalks**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
NA	In lower density residential contexts, are sidewalks allowed on just one side of a street? (As opposed to always required on both sides of residential streets.)	No regulations for lower density residential. Zoning ordinance Table 220-32D recommends sidewalks on both sides of streets in the Village Center District.	Planning Board to consider developing guidelines for sidewalks. Recommendations include: consider pedestrian preference when designing sidewalks, rather than the blanket application of requirement for placement of sidewalks on both sides of the road way.	2023
NA	Is permeable paving allowed for sidewalks?	None	Planning Board to consider guidelines for permeable pavement for sidewalks. Recommendations include: if the site permits infiltration, sidewalks may be constructed of permeable paving materials. If using permeable materials, the developer must work in consultation with the Department of Public Works and an engineer with experience in this field, and materials must be evaluated at regular intervals as they age. Pervious asphalt should be based on specifications such as those found in the University of New Hampshire Stormwater Center Design Specifications for Porous Asphalt Pavements and Infiltration	2023

			Beds. Sidewalks or pedestrian areas may also be constructed to direct stormwater runoff to a swale or other BMP.	
NA	Are alternative pedestrian network layouts allowed (rather than placement in ROW)?	None	Planning Board to consider guidelines for alternative pedestrian network layouts. Recommendations include: for certain developments, it may be more sensible for pedestrian circulation to make use of common areas rather than street right of ways.	2023
NA	Is sidewalk width standard set for LID purposes?	None	Planning Board to consider guidelines for sidewalk width. Recommendation for LID standard is sidewalk width of 4 feet or less.	2023
NA	Where curb and gutter streets are required for stormwater drainage, are sidewalks allowed to be disconnected from the stormwater drainage system?	None	Planning Board to consider guidelines for sidewalk stormwater drainage. Recommendations include: grading of impervious sidewalk surfaces should be done so as to direct stormwater runoff to bioretention areas or other such facilities to eliminate or keep flow out of the municipal storm drain system.	2023

**Table 8.6 Street Standards in Subdivision Regulations – Bus Waiting areas**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
NA	Do bus waiting areas require use of permeable paving unless infeasible?	None	Planning Board to consider guidelines for bus waiting areas. Recommendations include: permeable paving may be used for bus waiting areas in locations where soils are indicated to be in Natural Resource Conservation	2023

			Service hydrologic soils group A or B.	
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**Table 8.7 Street Standards in Subdivision Regulations – Curbs**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
NA	Do street standards allow for LID stormwater management approaches (i.e. swales or other such BMPs instead of curb and gutter)? Or are curbs and gutters REQUIRED improvements?	None. Plaistow Subdivision Regulation § 235-33, Storm drainage does not specify curbing.	Planning Board to consider guidelines for LID stormwater management. Recommendations include: in low or medium density developments where topography, soils, and slope permit, allow conveyance and treatment of stormwater runoff in the street right-of-way via vegetated open channels that incorporate runoff reduction practices such as dry swales, bioretention, biofilters, or vegetated swales, rather than requiring the use of curb and gutter stormwater conveyances.	2023
NA	Where curbs are necessary/require, are curb cuts/perforated curbs that allow runoff into swales or other stormwater BMPs allowed?	None. Plaistow Subdivision Regulation § 235-33, Storm drainage does not specify curbing.	Planning Board to consider guidelines for LID stormwater management. Recommendations include: where curbing is needed, think about specifying granite curbing as a way to help keep roads narrow overall. (With asphalt curbing it is hard to plow to the curb since material can be easily damaged. The tendency is to account for this extra width needed in winter months.	2023
Y	Does the town have criteria for design of roadside swales?	Stormwater Management design criteria are based on the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”	No changes recommended	-

N	Where curb and gutter systems are installed, are inlets / drains required to have a notice regarding discharge to receiving waters?	None	Planning Board to consider guidelines for curb and gutter stormwater management. Recommendations include: consider requiring developers and or the municipality to install standard signage indicating that waters drain to _____ River, etc.	2023
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**Table 8.8 Street Standards in Subdivision Regulations – Ensuring Soil Permeability**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
N	Is it clear that topsoil removal from the site should not diminish the infiltration characteristics of the site?	Stormwater Management design criteria are based on the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”	Continue to require BMP stormwater management practices in accordance with regional guidelines. Recommendations include: applicants must describe how their project will minimize and limit topsoil removal from the site.	-
N	Is it clear that any new soils brought on site should not diminish the infiltration characteristics of the site?	Stormwater Management design criteria are based on the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”	Continue to require BMP stormwater management practices in accordance with regional guidelines. Recommendations include: applicants must describe how they will ensure that any new fill or soils brought to the site will not diminish the infiltration characteristics of the site.	-
N	Is there any mention of avoiding compaction of soils by construction vehicles and restoring permeability of soils for infiltration if compacted?	Stormwater Management design criteria are based on the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”	Continue to require BMP stormwater management practices in accordance with regional guidelines. Recommendations include: ensure that all work is planned and executed so as to avoid compaction of topsoil and subsoils, including such best practices as reducing the number of trips required over area of disturbance, laying down soil	-

			protective mats for trafficked areas, and avoiding work after rain or snowmelt that soaks soils. For construction equipment, best practices should include using vehicles with low axle loads, reduced tire pressures, and use of flotation tires, doubles, radial tires, and/or large-diameter tires. For areas where such practices are not possible and soils are to be compacted by heavy equipment, subsurface restoration must occur prior to final landscaping activities .	
--	--	--	--	--

**Table 8.9 Green Infrastructure Feasibility**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
N	Green roofs	None	Planning Board to consider developing guidelines for green roofs. Recommendations include: state and encourage green roofs to promote LID practices. Green roofs provide several benefits including: reduce stormwater runoff from buildings through absorption, storage and evapotranspiration. Reduction of heat island effect. Increased building thermal insulation and energy efficiency. Increase roof longevity.	2023
N	Infiltration practices such as rain gardens, curb extensions, planter gardens, porous and pervious pavements, and other designs to manage stormwater using	Stormwater Management design criteria are based on the "Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire"	Planning Board to consider developing guidelines for infiltration practices. Recommendations include: <ul style="list-style-type: none"> <li>Redevelopment: implement LID measures onsite to the maximum extent practicable to retain</li> </ul>	2023

	landscaping and structured or augmented soils		<p>and treat stormwater runoff on site.</p> <ul style="list-style-type: none"> <li>• New development: all stormwater will be retained and treated on site utilizing LID measures.</li> <li>• Every effort shall be made to use pervious parking surfaces as an alternative to impervious asphalt or concrete for general and overflow parking areas. Pervious pavement shall be appropriately sited and designed for traffic and vehicle loading conditions.</li> <li>• Whenever practicable, native site vegetation shall be retained, protected, or supplemented. Any stripping of vegetation shall be done in a manner that minimizes soil erosion.</li> <li>• Allow for bioretention areas or other vegetated stormwater facilities within tree belt areas and to count toward other required landscaping features, including site, parking or perimeter screening. This creates areas that function on several levels, including aesthetics and stormwater management.</li> </ul>	
N	Water harvesting devices such as rain barrels and cisterns, and the use of stormwater	None	<p>Planning Board to consider developing guidelines for water harvesting devices.</p> <p>Recommendations include:</p> <p>Include language allowing water harvesting devices with</p>	2023

	for non-potable uses		<p>maintenance requirements to ensure proper functioning. Cisterns and rain barrels are used to store rooftop runoff for later use for landscaping and other non-potable uses such as car washing. Water stored in cisterns is even used in some cases for toilet flushing and/or irrigation of planters within buildings. Cisterns and rain barrels can be used in most commercial and residential properties where rooftop runoff is directed to a gutter and downspout.</p>	
N	If yes, are there developer incentives for utilizing green infrastructure practices?	None	<p>Planning Board to consider incentives green infrastructure practices. Recommendations include:</p> <p>The use of green infrastructure practices can be encouraged by offering incentives such as stormwater utility fee discounts or credits, waived or reduced permit fees, recognition programs for successful green infrastructure sites, and/or exemptions from portions of the local stormwater permitting requirements. For additional ideas on types of incentives and implementation, please refer to the EPA's Encouraging Low Impact Development Fact Sheet.</p>	2023

**Table 8.10 Development Policies in Subdivision Regulations**

Y/N	Checklist Item	Location in Code and any Standards	Changes Recommended	Proposed Schedule to Incorporate Changes
N	Does the preliminary plan	None	Planning Board to consider guidelines for promoting an LID	2023

	processes promote an LID approach?		<p>approach. Recommendations include:</p> <p>Low Impact Development (LID) site planning and design strategies must be used to the maximum extent practicable (MEP) in order to reduce the generation of the stormwater runoff volume for both new development and redevelopment projects (see Element D for redevelopment standards). An applicant must document in writing why LID strategies are not appropriate if not used to manage stormwater. Important note: It is best to include this early review element as part of stormwater management permit requirements for larger projects and site plan review requirements for smaller projects, but good to reinforce that process in Subdivision Regulations.</p>	
Y	Is the definitive plan process coordinated with the stormwater management and erosion and sediment control permit process requirements?	"Plaistow Zoning Ordinance: ARTICLE XVIA, (Storm Water – Post Construction), § 220-117.2. Applicability, An applicant for any land use related permit from the Town of Plaistow shall design and submit a custom construction storm water management and erosion control plan to the Planning Board, or their agent, for any tract of land being developed, redeveloped or subdivided, and for any tract of land being subdivided or developed in a manner which would be subject to site plan review, where one or more of the following conditions are proposed:	None	2023



Y	Is there a section within the subdivision regulations that addresses drainage?	Plaistow Subdivision Regulations: § 235-33, Storm drainage.	Review regulations and consider removing specific stormwater management language from subdivision regulations and referring out to standards in the stormwater management ordinance/bylaw and regulations is recommended. It is best not to describe requirements in subdivision regulations to avoid conflict and inconsistencies as standards are updated from time to time.	2023
N	Do the site development standards explicitly permit LID stormwater management approaches?	None	Review any additional standards carefully to ensure they enable LID stormwater management approaches and do not present barriers to such development strategies.	2023

This assessment demonstrates that current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover provides an opportunity for modification to design standards to promote and support low impact design options. While the Town regulation do contain references to BMP stormwater management through regional guidance documents and performance standards, there is an opportunity to promote LID design directly in the regulations in accordance with the above assessment. Each of the recommendations identified should be reviewed by the appropriate Town representatives, typically the Planning Department, for consideration of next steps which may include developing promotional documents, guidance documents, and where appropriate proposed modifications to Town regulations.

## 9.0 Assessment of Existing Local Regulations for Green Infrastructure Practices

Concurrent with Section 8, above, an assessment of existing local regulations including zoning and construction codes was completed consistent with Part 2.3.6.d of the MS4 Permit to determine the feasibility of making, at a minimum, green infrastructure practices allowable, when appropriate site conditions exist: including green roofs, infiltration practices such as rain gardens, curb extensions, planter gardens, porous and pervious pavements, and other designs to manage stormwater using

landscaping and structured or augmented soils, and water harvesting devices such as rain barrels and cisterns, and the use of stormwater for non-potable uses (Table 8.9). The assessment demonstrates that local regulations do not explicitly promote these green infrastructure practices; however, the site review board generally encourages BMPs for stormwater management and green infrastructure that conforms to current codes and regulations. There are opportunities to modify the codes and regulations such as allowing alternative construction materials (e.g. porous pavement rather than traditional asphalt). Each of the recommendations identified should be reviewed by the appropriate Town representatives, typically the Planning Department and/or Building Department, for consideration of next steps which may include developing promotional documents, guidance documents, and where appropriate proposed modifications to Town codes and regulations.

## 10.0 Inventory and Priority Ranking of Permittee-Owned Property for BMP Retrofit

An inventory of Town-owned property was compiled and priority-ranked for stormwater BMP retrofit potential. The Town MS4 currently consists of conventional stormwater management practices. Private developments in the Town do currently have stormwater BMP infrastructure which benefits the Town MS4; however, there is potential to further improve stormwater management practices within the Town owned and maintained stormwater infrastructure. Stormwater BMPs reduce the frequency, volume, and pollutant loads of stormwater discharges from the MS4 through the mitigation of impervious area.

**Table 10.1 Inventory of Town-Owned Property for BMP Retrofit**

	Property	Address	BMP Retrofit Potential	Priority
	Public Works Facility	144 Main Street	High	High
	Town Hall	Main Street	Low	Low
	Town Landfill		Medium	Low
	PARC Facility	Old County Road	High	High
	Sweet Hill Road Water Tank Parcel		Medium	Low
	Public Safety Building		Low	Low
	Ingalls Terrace Park		Medium	Low
	Plaistow Town Forest		High	High
	Pollard Elementary School		Medium	Low

	Timberlane Regional High School	36 Greenough Road	High	High

## 11.0 Annual Program Evaluation & Annual Report

In addition to the existing annual report that Plaistow is required to provide to the US EPA describing their progress with the MS4 program which is due ninety days from the close of each reporting period, the new 2017 permit requires an annual stormwater management program evaluation to determine if the Town has met its yearly goals regarding permit conditions and whether or not any updates or revisions regarding BMPs are needed. Each evaluation will be included in this SWMP and any changes to BMPs will be explained in the annual report. More details of what is required for the annual program evaluation are listed in Part 4.1 of the permit. This evaluation will also be available to the public.

As stated in Part 4.1 of the permit, if BMP changes take place, it must include records of:

1. Why the BMP is not effective/infeasible;
2. The expected effectiveness of the replacement BMP;
3. Why the replacement BMP is expected to achieve the defined goals

All records required under this permit must be kept for at least 5 years.

## 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 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."*

Printed Name and Title of Official

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Signature

Date

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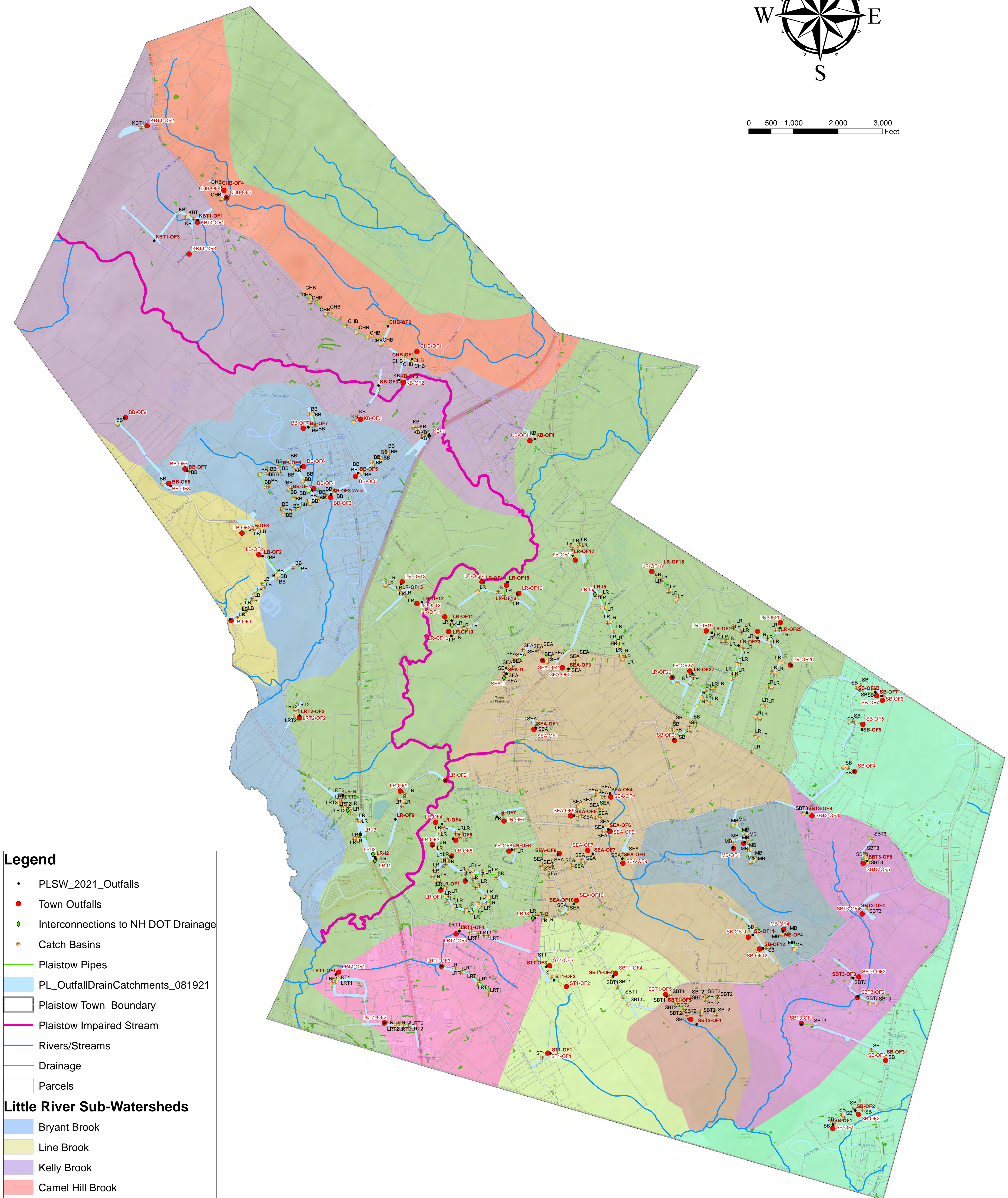
## Acronyms and Abbreviations List

US EPA	US Environmental Protection Agency
US FWS	US Fish and Wildlife Service
NMFS	National Marine Fisheries Service
NPDES	National Pollution Discharge and Elimination System
NOI	Notice of Intent
IDDE	Illicit Discharge and Elimination
LID	Low Impact Development
SWPPP	Stormwater Pollution Prevention Plan
BMPs	Best Management Practices
SSOs	Sanitary Sewer Overflows
NH DES	New Hampshire Department of Environmental Services
SWMP	Stormwater Management Program

## Appendices


## Appendix A: Separate Storm Sewer Map





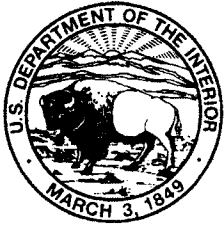
- PLSW\_2021\_Outfalls
- Town Outfalls
- ◆ Interconnections to NH DOT Drainage
- ⊕ Catch Basins
- Plaistow Pipes
- PL\_OutfallDrainCatchments\_081921
- ▭ Plaistow Town Boundary
- Plaistow Impaired Stream
- Rivers/Streams
- Drainage
- ▭ Parcels

	Bryant Brook
	Line Brook
	Kelly Brook
	Camel Hill Brook
	Little River
	Little River Tributary #1
	Seaver Brook
	Mankill Brook
	Snows Brook
	Snows Brook Tributary #1
	Snows Brook Tributary #2
	Snows Brook Tributary #3

Scale:	As Shown	<div style="text-align: center;"> <h1>Town of Plaistow, NH</h1> <h2>MS4 Stormwater System</h2> <h3>Stormwater Outfalls, Catchments and Interconnections</h3> </div> <div style="display: flex; align-items: center;">  <div> <p><b><i>NORMANDEAU ASSOCIATES</i></b>  <b>ENVIRONMENTAL CONSULTANTS</b>              25 Nashua Road Bedford, NH 03110</p> </div> </div>
Project No:	21765.004	
Filename:	OutfallMap_DP_091621	
Drawn By:	DLP	
Date Drawn:	9/16/2021	



## Appendix B: Special Eligibility Determination Letters



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE



New England Field Office  
70 Commercial St, Suite 300  
Concord, NH 03301-5087  
<http://www.fws.gov/newengland>

September 24, 2018

To whom it may concern:

The U.S. Fish and Wildlife Service (USFWS) reviewed the stormwater discharge activities associated with the 2017 National Pollutant Discharge and Elimination System (NPDES) New Hampshire (NH) Small Municipal Separate Storm Sewer System (MS4) general permit (2017 NH Small MS4 General Permit) issued by the Environmental Protection Agency (EPA). We determined those activities may affect, but are not likely to adversely affect, certain species listed under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) when specific conditions are met. When these conditions are met, we do not need to review individual projects. These comments are provided in accordance with section 7 of the ESA and complement existing 2017 NH Small MS4 General Permit Appendix C Guidance. We understand the applicant is acting as a non-Federal representative of the EPA for the purpose of consultation under section 7. **This letter provides additional guidance for meeting Criterion B and should be submitted as part of your application package to the EPA.**

If the USFWS Information for Planning and Consultation website (<https://ecos.fws.gov/ipac/>) indicates your 2017 NH Small MS4 General Permit project action area may contain one or more of the following federally listed endangered species: roseate tern (*Sterna dougallii*), dwarf wedgemussel (*Alasmidonta heterodon*), Karner blue butterfly (*Lycaeides melissa samuelis*), northeastern bulrush (*Scirpus ancistrochaetus*), or Jesup's milk-vetch (*Astragalus robbinsii* var. *jesupi*); threatened species: Canada lynx (*Lynx Canadensis*), piping plover (*Charadrius melodus*), or red knot (*Calidris canutus rufa*); or their federally designated critical habitat; and the specific conditions listed below are met, you may submit this letter to complete the **2017 NH Small MS4 General Permit Appendix C: Step 4** in place of a concurrence letter for informal consultation as documentation of ESA eligibility for **USFWS Criterion B**.

In addition, this letter also satisfies the requirement in the **2017 NH Small MS4 General Permit Appendix C: Step 2 (3)** to contact the USFWS and obtain a concurrence letter, if you have not yet done so. If your project action area includes one or more of the above-listed species *and* one or more of the species listed under **Criterion C**,<sup>1</sup> you may still use this letter to certify under

<sup>1</sup> Criterion C includes guidance for project action areas that may contain species for which EPA has already made a determination. These species include the northern long-eared bat (*Myotis septentrionalis*) and small whorled pogonia (*Isotria medeoloides*) (2017 NH Small MS4 General Permit Appendix C: Step 3 – Determine if You Can Meet Eligibility USFWS Criterion C).



## 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:

June 04, 2019

Consultation Code: 05E1NE00-2019-SLI-1874

Event Code: 05E1NE00-2019-E-04623

Project Name: MS4 Permit

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

### To Whom It May Concern:

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

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

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

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

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

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

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

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

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

Attachment(s):

- Official Species List
-

# Official Species List

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

This species list is provided by:

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

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## Project Summary

Consultation Code: 05E1NE00-2019-SLI-1874

Event Code: 05E1NE00-2019-E-04623

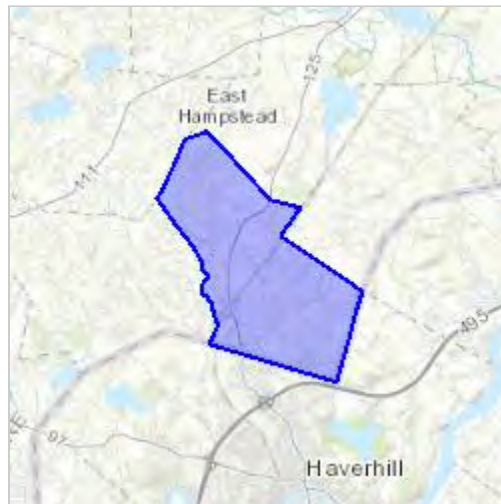
Project Name: MS4 Permit

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

Project Description: Stormwater Program

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.843058997752934N71.09679557105349W>



Counties: Essex, MA | Rockingham, NH

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## Endangered Species Act Species

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

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

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

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

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

## Mammals

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

## Critical habitats

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

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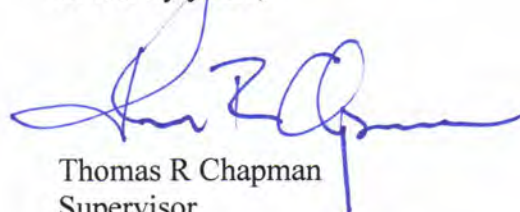
**Criterion B.** All existing guidance regarding requirements for certifying eligibility according to the USFWS Criterion A, B, or C for coverage by the 2017 NH Small MS4 General Permit (see 2017 NH Small MS4 General Permit Appendix C – Endangered Species Guidance) remains unchanged.

We have determined that proposed stormwater discharge activities covered under the 2017 NH Small MS4 General Permit *may affect, but are not likely to adversely affect*, the above-listed species and the species' critical habitat when the following are true:

1. all stormwater discharges are pre-existing or previously permitted by EPA;
2. any planned operations and maintenance work covered by this permit will only affect previously disturbed areas where stormwater controls are already installed. In these situations the chance of encountering any of the subject species is discountable;
3. the project implements EPA MS4 Best Management Practices (BMPs) and meets Clean Water Act and New Hampshire Water Quality Standards. Although permitted discharges may reach the environment used by these species, BMPs reduce pollutants to the extent that discharges are not known to have measurable impacts on these species or their habitat;
4. no new construction or structural BMPs are proposed under this permit at this time; and
5. you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the Notice of Intent (NOI), you will re-initiate consultation with the USFWS as necessary (see **2017 NH Small MS4 General Permit Appendix C: Step 2 (5)**).

If the above criteria are met, further consultation with the USFWS under section 7 of the ESA is not required at this time; however, if the proposed action changes in any way such that it may affect a listed species in a manner not previously analyzed or if new information reveals the presence of additional listed species that may be affected by the project, the applicant or the EPA should contact us immediately and suspend activities that may affect those species until the appropriate level of consultation is completed with our office. Thank you for your cooperation, and please contact David Simmons of this office at (603) 227-6425 if you have questions or need further assistance.

Sincerely yours,



Thomas R Chapman  
Supervisor  
New England Field Office



[illegible]

**E. 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 gather and evaluate 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, I certify that 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.

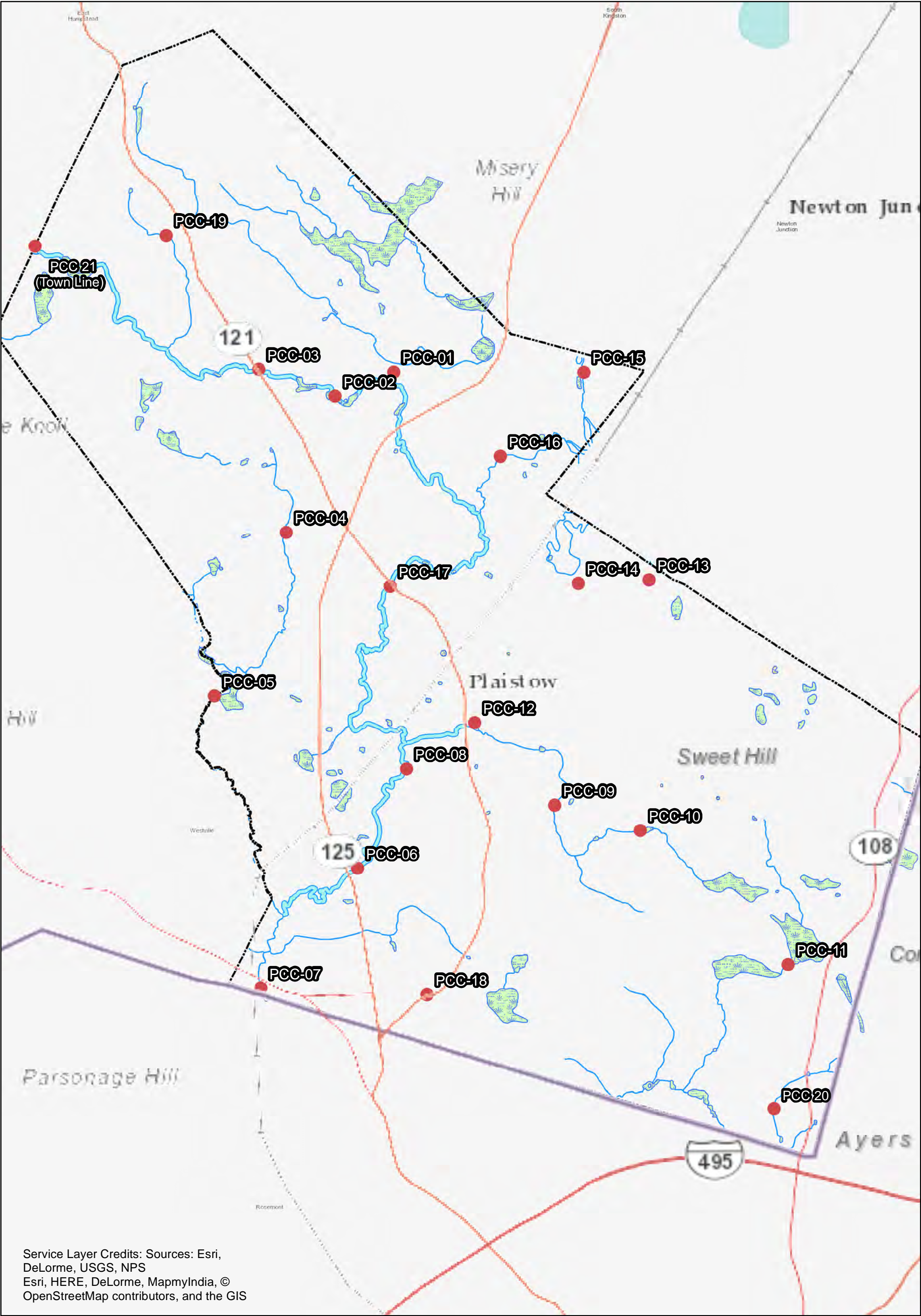
Print Name: Robert J. GraySignature:  Date: 3/3/03

## Appendix C: Impaired Waters and Special Resource Waters



## Appendix D: Surface Water Sampling Locations





Service Layer Credits: Sources: Esri, DeLorme, USGS, NPS  
Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS

Legend

- Surface Water Sampling Locations
- ▭ Plaistow Town Boundary
- ▨ Wetlands
- ▬ Impaired Stream
- ▬ Rivers/Streams



Town of Plaistow, NH  
Surface Water  
Sampling Locations

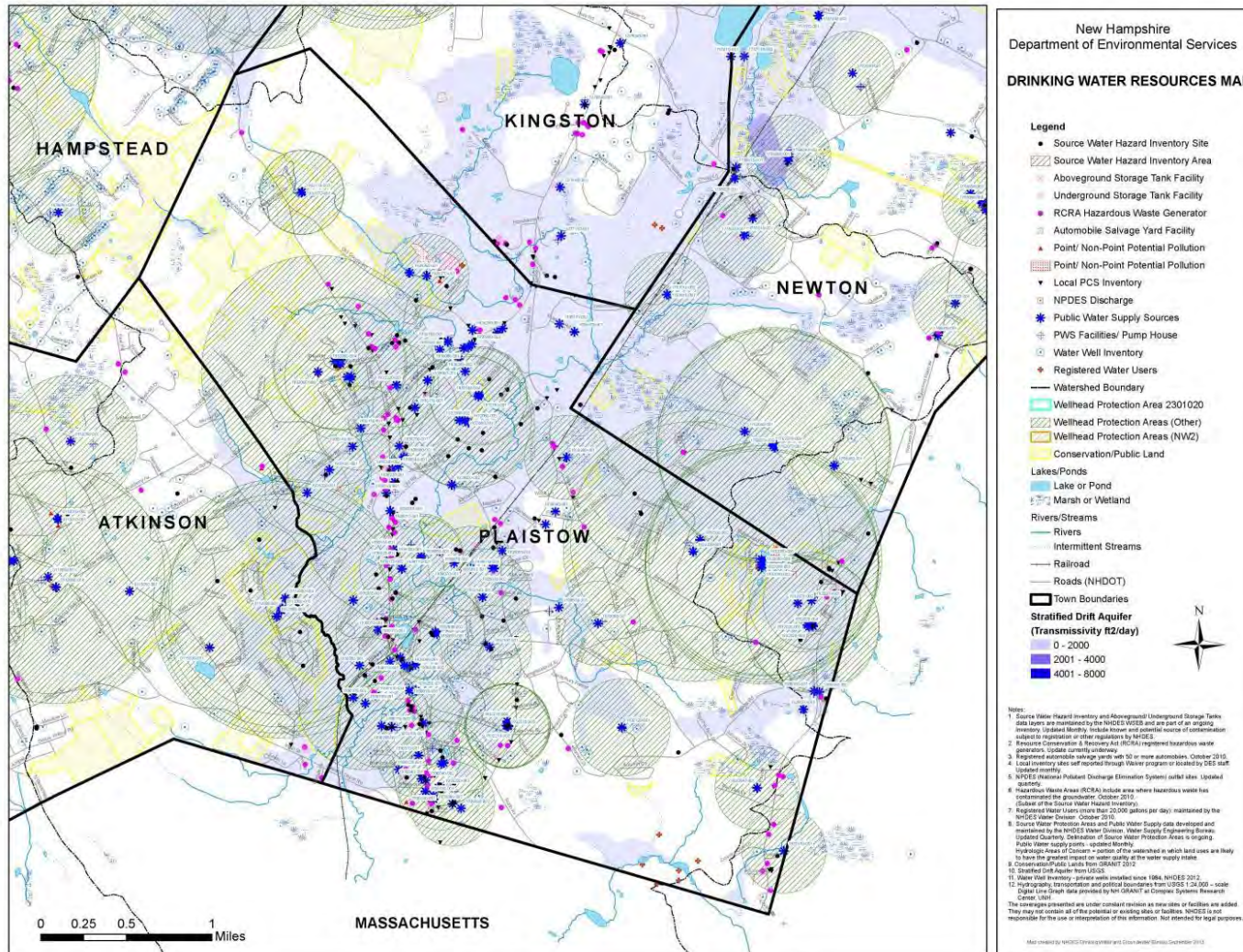
06/04/19



## Appendix E: Drinking Water Resources



## Plaistow Drinking Water Map



Source: NHDES OneStop, Plaistow Source Water Protection Plan, 2015



Appendix F: Article XVIA (Storm Water - Post Construction) from Plaistow 2020 Zoning Ordinance

**ARTICLE XVI**  
**Storm Water - Illicit Discharge and Connection**<sup>53</sup>  
**[Added 3-9-2010 ATM by Art. P-10-O]**

**§ 220-108. Purpose.**

The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of the Town of Plaistow through the regulation of non-storm water discharges to the storm drainage system to the maximum extent practicable as required by federal and state law. This ordinance establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are:

- A. To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by storm water discharges by any user.
- B. To prohibit Illicit Connections and Discharges to the municipal separate storm sewer system.
- C. To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance

**§ 220-109. Definitions.**

For the purposes of this ordinance, the following shall mean:

Authorized Enforcement Agency: employees or designees of the director of the municipal agency designated to enforce this ordinance.

Best Management Practices (BMPs): schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to storm water, receiving waters, or storm water conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

Clean Water Act: The federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), and any subsequent amendments thereto.

Construction Activity: Activities subject to NPDES Construction Permits. Currently these include construction projects resulting in land disturbance of 5 acres or more. Beginning in March 2003, NPDES Storm Water Phase II permits will be required for construction projects resulting in land disturbance of 1 acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

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<sup>53</sup>. Editor's Note: Former Art. XVI, Recreational Impact Fee Assessment, was removed from the Code 3-9-2004 ATM by Art. P-30, which article consolidated impact fee regulations. For current information, see Art. XIV, Impact Fees.

**Hazardous Materials:** Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

**Illegal Discharge:** Any direct or indirect non-storm water discharge to the storm drain system, except as exempted in Section 7 of this ordinance.

**Illicit Connections:** An illicit connection is defined as either of the following:

- A. Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system including but not limited to any conveyances which allow any non-storm water discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency or,
- B. Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

**Industrial Activity:** Activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26 (b)(14).

**National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit:** means a permit issued by EPA (or by a State under authority delegated pursuant to 33 USC 1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

**Non-Storm Water Discharge:** Any discharge to the storm drain system that is not composed entirely of storm water.

**Person:** means any individual, association, organization, partnership, firm, corporation or other entity recognized by law and acting as either the owner or as the owner's agent.

**Plan:** A document approved at the site design phase that outlines the measures and practice used to control storm water runoff at a site.

**Pollutant:** Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordinances, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

**Premises:** Any building, lot, parcel of land, or portion of land whether improved or unimproved including adjacent sidewalks and parking strips.

**Storm Drainage System:** Publicly-owned facilities by which storm water is collected and/or conveyed, including but not limited to any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures.

**Storm Water:** Any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation, and resulting from such precipitation.

**Storm Water Pollution Prevention Plan:** A document which describes the Best Management Practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to storm water, storm water conveyance systems, and/or receiving waters to the maximum extent practicable.

**Wastewater:** means any water or other liquid, other than uncontaminated storm water, discharged from a facility.

#### **§ 220-110. Applicability.**

This ordinance shall apply to all water entering the storm drain system generated on any developed and undeveloped lands unless explicitly exempted by an authorized enforcement agency.

##### **§ 220-110.1. Responsibility for administration.**

The Town of Plaistow shall administer, implement, and enforce the provisions of this ordinance. Any powers granted or duties imposed upon the Town of Plaistow may be delegated in writing by the Town Manager to persons or entities acting in the beneficial interest of or in the employ of the agency.

##### **§ 220-110.2. Severability.**

The provisions of this ordinance are hereby declared to be severable. If any provision, clause, sentence, or paragraph of this Ordinance or the application thereof to any person, establishment, or circumstances shall be held invalid, such invalidity shall not affect the other provisions or application of this Ordinance.

##### **§ 220-110.3. Ultimate responsibility.**

The standards set forth herein and promulgated pursuant to this ordinance are minimum standards; therefore, this ordinance does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants.

#### **§ 220-111. Discharge prohibitions.**

A. Prohibition of Illegal Discharges.

No person shall discharge or cause to be discharged into the municipal storm drain system or watercourses any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than storm water.

The commencement, conduct or continuance of any illegal discharge to the storm drain system is prohibited except as described as follows:

- (1) The following discharges are exempt from discharge prohibitions established by this ordinance: water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising ground water, ground water infiltration to storm drains, uncontaminated pumped ground water, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, non-commercial washing of vehicles, natural riparian habitat or wet-land flows, swimming pools (if dechlorinated - typically less than one PPM chlorine), fire fighting activities, and any other water source not containing Pollutants.
- (2) Discharges specified in writing by the Town of Plaistow as being necessary to protect public health and safety.
- (3) Dye testing is an allowable discharge, but requires a verbal notification to the Town of Plaistow prior to the time of the test.
- (4) The prohibition shall not apply to any non-storm water discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency, provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system.

#### **B. Prohibition of Illicit Connections.**

The construction, use, maintenance or continued existence of illicit connections to the storm drain system is prohibited.

- (1) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (2) A person is considered to be in violation of this ordinance if the person connects a line conveying sewage to the MS4, or allows such a connection to continue.

#### **220-112. Suspension of MS4 access.**

##### **A. Suspension due to Illicit Discharges in Emergency Situations**

The Town of Plaistow may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of

persons, or to the MS4 or Waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the Town of Plaistow may take such steps as deemed necessary to prevent or minimize damage to the MS4 or Waters of the United States, or to minimize danger to persons.

**B. Suspension due to the Detection of Illicit Discharge**

Any person discharging to the MS4 in violation of this ordinance may have their MS4 access terminated if such termination would abate or reduce an illicit discharge. The Town of Plaistow will notify a violator of the proposed termination of its MS4 access. The violator may petition the Town of Plaistow for a reconsideration and hearing.

C. A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to this Section, without the prior approval of the Town of Plaistow.

**§ 220-113. Industrial or construction activity discharges.**

Any person subject to an industrial or construction activity NPDES storm water discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the Town of Plaistow prior to the allowing of discharges to the MS4.

**§ 220-114. Monitoring of discharges.**

**A. Applicability.**

This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.

**B. Access to Facilities.**

- (1) The Town of Plaistow shall be permitted to enter and inspect facilities subject to regulation under this ordinance as often as may be necessary to determine compliance with this ordinance. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the Town of Plaistow.
- (2) Facility operators shall allow the Town of Plaistow ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of an NPDES permit to discharge storm water, and the performance of any additional duties as defined by state and federal law.
- (3) The Town of Plaistow shall have the right to set up on any permitted facility such devices as are necessary in the opinion of the Town of Plaistow to conduct monitoring and/or sampling of the facility's storm water discharge.
- (4) The Town of Plaistow has the right to require the discharger to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its

own expense. All devices used to measure storm water flow and quality shall be calibrated to ensure their accuracy.

- (5) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the Town of Plaistow and shall not be replaced. The costs of clearing such access shall be borne by the operator.
- (6) Unreasonable delays in allowing the Town of Plaistow access to a permitted facility is a violation of a storm water discharge permit and of this ordinance. A person who is the operator of a facility with a NPDES permit to discharge storm water associated with industrial activity commits an offense if the person denies the Town of Plaistow reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this ordinance.
- (7) If the Town of Plaistow has been refused access to any part of the premises from which storm water is discharged, and he/she is able to demonstrate probable cause to believe that there may be a violation of this ordinance, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this ordinance or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the Town of Plaistow may seek issuance of a search warrant from any court of competent jurisdiction.

**§ 220-115. Requirement to prevent, control, and reduce storm water pollutants by the use of Best Management Practices.**

The Town of Plaistow will adopt requirements identifying Best Management Practices for any Town activity, operation, or facility which may cause or contribute to pollution or contamination of storm water, the storm drain system, or waters of the U.S. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses through the use of these structural and non-structural BMPs. Further, any person responsible for a property or premise, which is, or may be, the source of an illicit discharge, may be required to implement, at said person's expense, additional structural and non-structural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of storm water associated with industrial activity, to the extent practicable, shall be deemed compliance with the provisions of this section. These BMPs shall be part of a Storm Water Pollution Prevention Plan (SWPPP) as necessary for compliance with requirements of the NPDES permit.

**§ 220-115.1. Watercourse protection.**

Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately-

owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

#### **§ 220-115.2. Notification of spills.**

Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into storm water, the storm drain system, or water of the U.S. said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, said person shall notify the Town of Plaistow in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the Town of Plaistow within three business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years.

#### **§ 220-116. Enforcement.**

##### **§ 220-116.1 Notice of Violation.**

A. Whenever the Town of Plaistow finds that a person has violated a prohibition or failed to meet a requirement of this Ordinance, the Town of Plaistow may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

- (1) The performance of monitoring, analyses, and reporting;
- (2) The elimination of illicit connections or discharges;
- (3) That violating discharges, practices, or operations shall cease and desist;
- (4) The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
- (5) Payment of a fine to cover administrative and remediation costs;
- (6) The implementation of source control or treatment BMPs.

B. If an abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator.

##### **§ 220-116.2. Appeal of Notice of Violation.**

Any person receiving a Notice of Violation may appeal the determination of the Town of Plaistow. The notice of appeal must be received within 30 days from the date of the Notice of Violation. A Hearing on the appeal before the appropriate authority or his/her designee shall take



place within 15 days from the date of receipt of the notice of appeal. The decision of the municipal authority or their designee shall be final.

**§ 220-116.3. Enforcement measures after appeal.**

If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal, within 90 days, or an interval specified by the Town of Plaistow Planning Board, of the decision of the municipal authority upholding the decision of the Town of Plaistow, then representatives of the Town of Plaistow shall enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the government agency or designated contractor to enter upon the premises for the purposes set forth above.

**§ 220-116.4. Cost of abatement of the violation.**

A. Within 30 days, or an interval specified by the Town of Plaistow Planning Board, after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may file a written protest objecting to the amount of the assessment within 30 days. If the amount due is not paid within a timely manner as determined by the decision of the municipal authority or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.

B. Any person violating any of the provisions of this article shall become liable to the Town of Plaistow by reason of such violation. The liability shall be paid in not more than 12 equal payments. Interest at the rate of 5 percent per annum shall be assessed on the balance beginning on the 31<sup>st</sup> day following discovery of the violation.

**§ 220-116.5. Injunctive relief.**

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Ordinance. If a person has violated or continues to violate the provisions of this ordinance, the Town of Plaistow may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

**§ 220-116.6. Compensatory action.**

In lieu of enforcement proceedings, penalties, and remedies authorized by this Ordinance, the Town of Plaistow may impose upon a violator alternative compensatory actions, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

**§ 220-116.7. Violations deemed a public nuisance.**

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Ordinance is a threat to public health, safety, and welfare, and is declared and deemed a nuisance, and may be summarily abated

or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

**§ 220-116.8. Criminal prosecution.**

Any person that has violated or continues to violate this ordinance shall be liable to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of \$500.00 dollars per violation per day and/or imprisonment for a period of time not to exceed 30 days.

The Town of Plaistow may recover all attorney's fees court costs and other expenses associated with enforcement of this ordinance, including sampling and monitoring expenses.

**§ 220-116.9. Remedies not exclusive.**

The remedies listed in this ordinance are not exclusive of any other remedies available under any applicable federal, state or local law and it is within the discretion of the Town of Plaistow to seek cumulative remedies.

**ARTICLE XVIA**  
**(Storm Water – Post Construction)**<sup>54</sup>

**§ 220-117. Purpose and Goals**

The Purpose of this Ordinance is to control runoff and soil erosion and sedimentation resulting from site construction and development; and to comply with US Environmental Protection Agency (EPA) Stormwater Management regulations.

This Ordinance covers all areas within the Town of Plaistow including, but not limited to, the area designated by the EPA as an Urbanized Area in accordance with the Town's Authorization to Discharge under the General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4). Subdivisions and site plans shall include plans for managing storm water and controlling erosion and sedimentation as provided below.

Any errors or omissions in this Ordinance shall not exempt applications from complying with applicable State and Federal Statutes. In the event of conflicting requirements, pursuant to NH RSA 676:14 the stricter standard applies. This ordinance shall become effective upon the adoption by the Town of Plaistow Board of Selectmen, and the Planning Board, in accordance with the provisions of RSA 147, 41:11, RSA 674:16 & 17 and 476:36 & 44

**§ 220-117.1. Abbreviations/Definitions**

Best Management Practices (BMP): A proven or accepted structural, non-structural, or vegetative measure; the application of which reduces erosion, sediment, or peak storm discharge, or improves the quality of Stormwater runoff.

Certified Soil Scientist: A person qualified in soil classification and mapping who is certified by the State of New Hampshire Board of Natural Scientists.

Critical Areas: Disturbed areas of any size within 50 feet of any wetland; 100 feet of a Public Water Protection Wetland (as defined in Plaistow Zoning Ordinance, Article IV); disturbed areas exceeding 2,000 square feet in highly erodible soils; or, disturbed areas containing slope lengths exceeding 25 feet on slopes greater than 10 percent.

Development: Any construction or land altering or grading activities other than for agricultural and silvicultural practices.

Disturbed Area: An area where the natural vegetation, including tree stumps, has been removed exposing underlying soil, or vegetation has been covered.

Environmental Protection Agency (EPA): The Federal agency responsible for implementing Clean Water Act entities including the National Pollutant Discharge Elimination System (NPDES) program.

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<sup>54</sup>. Editor's Note: Former Art. XVIA, Public Safety Impact Fee Assessment, added 3-12-2002 ATM by Art. P-31, as amended 3-9-2004 ATM by Art. P-27, was removed from the Code 3-9-2004 ATM by Art. P-30, which article consolidated impact fee regulations. For current information, see Art. XIV, Impact Fees. Post construction ordinance ATM by Art. P11-23.

Erosion: The detachment and movement of soil or rock fragments by water, wind, ice or gravity.

Highly Erodible Soils: Any soil with an erodibility class (K factor) greater than or equal to 0.43 in any layer as found in Table 3-1 of the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire.”

NOI: Notice of Intent as developed by the EPA.

NOT: Notice of Termination as developed by the EPA.

NPDES: National Pollutant Discharge Elimination System as developed by the EPA.

Project Area: The area within the subdivision or site plan boundaries plus any areas with associated offsite improvements.

Sediment: Solid Material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

Stabilized: When the soil erosion rate approaches that of the undisturbed soils. Soils which are disturbed will be considered stabilized when covered with a healthy, mature growth of grass, or good covering of straw mulch or equivalent (seedless) mulch (at a rate of not less and 2 tons/acre). Mulch is only a temporary measure; ultimately, the site needs vegetation.

Stormwater Management and Erosion Control Plan (SWMP): A plan which outlines project features, proposed temporary and permanent erosion control features, maintenance schedules and practices, and design basis used to establish both temporary and permanent design features.

Stormwater Pollution Prevention Plan (SWPPP): A plan required by the EPA that clearly describes appropriate control measures that include a description of all pollution control measures (i.e., BMPs) that will be implemented as part of the construction activity to control pollutants in storm water discharges and describes the interim and permanent stabilization practices for the site.

Stormwater Runoff: the water from precipitation that is not absorbed, evaporated, or otherwise stored within the contributing drainage area.

Stream: Areas of flowing water occurring for sufficient time to develop and maintain defined channels; but may not flow during dry portions of the year. Includes but is not limited to all perennial and intermittent streams located on US Geological Survey Maps.

## **§ 220-117.2. Applicability**

An applicant for any land use related permit from the Town of Plaistow shall design and submit a custom construction storm water management and erosion control plan to the Planning Board, or their agent, for any tract of land being developed, redeveloped or subdivided, and for any tract of land being subdivided or developed in a manner which would be subject to site plan review, where one or more of the following conditions are proposed:

- a. A cumulative disturbed area exceeding 20,000 square feet
- b. Construction or reconstruction of a street or road
- c. A subdivision of two or more building lots
- d. Proposed work adjacent to a wetlands buffer
- e. Disturbed critical areas (see Definitions)

The applicant shall design and submit a custom permanent storm water management and erosion control plan to the Planning Board, or their agent for any tract of land being developed, redeveloped or subdivided. This submission shall occur: for a subdivision at the Final Review Phase, during the Non-Residential Site Review process, as part of the Building Permit review, depending upon the scale of the project proposed, or as directed by the Planning Board, or their designated agent.

A waiver of this ordinance may be granted by the Planning Board. The applicant must provide evidence, in writing, to support the request for waiver due to the size or character of the project, or the natural conditions of the site.

### **§ 220-117.3. Design Standards**

1. Temporary/Construction Stormwater Management Design: The following standards shall be applied in planning for storm water management and erosion control as related to construction: (Additionally, the Planning Board, by its adoption of this ordinance, has incorporated the same be referenced as a requirement of its subdivision and site plan regulations so that the plan and application contemplated hereunder should be presented to the Planning Board in connection with any such application as well. Such submission to the Planning Board shall be in addition to any requirements to storm water drainage system design that may also be contained in applicable subdivision and/or site plan regulations.)

- a. All measures in the plan shall meet as a minimum the Best Management Practices set forth in the “New Hampshire Stormwater Manual”, NH Department of Environmental Service; and the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire” Rockingham County Conservation District, NH Department of Environmental Services, Soil Conservation Services (now the Natural Resources Conservation Service), August 1992, as amended from time to time.
- b. Whenever practical, natural vegetation shall be retained, protected or supplemented. The stripping of vegetation shall be done in a manner that minimizes soil erosion.
- c. Appropriate erosion and sediment control measures shall be installed prior to soil disturbance.
- d. The area of disturbance shall be kept to a minimum. Disturbed areas remaining idle for more than thirty (30) days shall be stabilized.
- e. Measure shall be taken to control erosion within the project area. Sediment and runoff water shall be trapped and retained within the project area using approved measures. Wetland areas and surface waters shall be protected from sediment.
- f. Off-site surface water and runoff from undisturbed areas shall be diverted away from disturbed areas where feasible or carried without erosion through the project area. Integrity of downstream drainage systems shall be maintained.
- g. Measures shall be taken to control the post-development peak rate of runoff so that it does not exceed pre-development runoff for the two-years, 24-hour storm event and for

additional storm event frequencies as specified in the design criteria of the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire.”

- h. Priority should be given to preserving natural drainage systems including perennial and intermittent streams, wetlands, swales, and drainage ditches for conveyance of runoff leaving the project area.
- i. All temporary erosion and sediment control measures shall be removed after final site stabilization. Trapped sediment and other disturbed soil areas resulting from the removal of temporary measures shall be permanently stabilized within 30 days unless conditions dictate otherwise.
- j. Naturally occurring streams, channels, and wetlands shall be used for conveyance of runoff leaving the project area only after appropriate sedimentation control measures have been employed.

## 2. Permanent Stormwater Management Design Criteria

The following standards shall be applied in planning for stormwater management and erosion control as related to long-term management of municipal water quality:

- a. Under One Acre of Disturbance:
  - 1. Within the urbanized area (UA) will require a basic stormwater quality management system. At a minimum, all stormwater must pass through basic pretreatment (beyond catch basin sumps) prior to leaving the site.
- b. Over One (1) Acre Disturbance:
  - 1. Within the UA requires a well thought out, systematic permanent stormwater quality management system. Latest technology and most up-to-date performance data must be considered when selecting permanent control measures. As noted above, catch basin sumps alone are not considered a valid water control measure. Mechanical devices may be required to supplement any proposal. Maintenance programs and schedules will be required as part of the proposal. Off-site water quality control measures may require long-term escrow funds to cover future maintenance expenses. Sites with appropriate separation to the seasonal high groundwater table must also consider groundwater recharge. All groundwater recharge systems will require on-site test pit and percolation test data to be submitted as part of the review.
  - 2. Outside the UA requires a basic systematic permanent stormwater quality management system. Catch basin sumps alone are not considered a valid water quality control measure.
- c. Adjacent to the Wetlands Buffer (Any Size Disturbance):
  - 1. Any new project adjacent to the wetlands buffer will require permanent water quality control measures.
  - 2. Projects involving redevelopment or expansion will be considered on a case-by-case basis.
- d. Municipal Project: All municipal projects will also consider inclusion of water quality control measures.

### 3. Permanent Stormwater Management Technical Design Criteria

- a. All measures in the plan shall meet as a minimum the Best Management Practices set forth in the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire,” Rockingham County Conservation District, NH Department of Environmental Services, Soil Conservation Service (now the Natural Resources Conservation Service), August 1992, as amended from time to time.
- b. The design of proposed features must consider the following:
  - 1) Existing and proposed methods of handling stormwater runoff so that there will be no increase in the amount of runoff that leaves the boundaries of the site. (The Planning Board may permit an increase in off-site stormwater runoff on submission of a detailed downstream, study and on the recommendation of the Town.)
  - 2) Engineering calculations used to determine drainage requirements based upon 25-year storm frequency, 24-hour duration shall be provided if the project will significantly alter the existing drainage patterns due to such factors as the amount of new impervious surfaces (such as pavement and building areas) being proposed. Closed drainage features must be sized for the 10-year storm frequency. Culverts, major ditches, swales, and detention facilities must be sized for the 25-year storm frequency.
  - 3) If the project will affect drainage flow to an existing roadway culvert, or if a detention or retention pond is proposed, a minimum of a 25-year storm shall be used to evaluate potential off-site effects. If a State owned or maintained culvert is affected by the development, State of New Hampshire Department of Transportation Guidelines shall be used for evaluation of the culvert.
  - 4) All temporary erosion and sediment control measures shall be removed after final site stabilization. Trapped sediment and other disturbed soil areas resulting from the removal of temporary measures shall be permanently stabilized within thirty (30) days.
  - 5) Velocities of less than ten (10) feet per second are required prior to entering a sedimentation swale. The maximum design velocity within the swale shall be 1.0 feet per second during passage of the 10-year storm.
  - 6) Flows of less than ten (10) cubic feet per second are required prior to entering a sedimentation swale.
  - 7) All slopes equal to or steeper than 2:1 adjacent to a public right-of-way must have special stabilization details provided with the submission.
  - 8) Velocities of ten (10) feet per second or less are desirable within a closed drainage system. Higher velocities may be allowed provided special design criteria have been used.

The following shall be required in the final plan unless the project is deemed of sufficiently minimal impact.

### 4. Construction Drawings/Supporting Documents Shall Include the Following:

- a. Locus map showing property boundaries
- b. North arrow, scale, date
- c. Property lines
- d. Structures, roads, utilities, earth stockpiles, equipment storage, and plan for stump and debris removal

- e. Topographic contours at two-foot intervals
- f. Critical areas
- g. Within the project area and within 200 feet of project boundary surface waters, wetlands and drainage patterns and watershed boundaries
- h. Vegetation
- i. Extent of 100-year flood plain boundaries if published or determined
- j. Soils information for design purposes from a National Cooperative Soil Survey (NCSS) soil series map or a High Intensity Soil Map of the site, prepared in accordance with SSSNNE Special Publication No.1. Highly erodible soils shall be determined by soil series
- k. Easements, existing and proposed
- l. Areas of soil disturbance, including calculation of square footage disturbed
- m. Areas of cut and fill, including existing and proposed elevations
- n. Locations of earth stockpiles
- o. Locations of equipment storage and staging
- p. Stump disposal
- q. Highlighted areas of poorly and very poorly drained soils
- r. Highlighted areas poorly and/or very poorly drained soils proposed to be filled
- s. Locations, descriptions, details, and design calculations for all structural, non-structural, permanent and temporary erosion and sedimentation control measures and BMPs
- t. Identification of all permanent control measures
- u. Identification of permanent snow storage areas
- v. Identification of snow management areas during construction
- w. Construction schedule
- x. Earth movement schedule
- y. Temporary (additional) detention and/or sediment control facilities may be designed to accommodate the storm most likely to occur during the anticipated duration of construction (i.e. construction duration of two (2) years requires a two-year evaluation)
- z. A proposed schedule for the inspection and maintenance of all measures
- aa. Identification of all permanent control measures and responsibility for continued maintenance

5. Stormwater Management Report Section Including:

- a. Design calculations for all temporary and permanent structural control BMP measures
- b. A proposed schedule and procedural details for the inspection and maintenance of all BMPs during and after construction
- c. Identification of all permanent control measures and responsibility for continued maintenance
- d. Drainage report with calculations showing volume, peak discharge, and velocity of present and future runoff for the 10-year, 24-hour storm event
- e. Plans showing the entire drainage area affecting or being affected by the development of the site. Proposed lot boundaries and drainage areas shall be clearly shown on the plan
- f. The direction of flow of runoff through the use of arrows shall clearly be shown on the plan
- g. The location, elevation, and size of all existing and proposed catch basins, drywells, drainage ditches, swales, retention basin, and storm sewers shall be shown on the plan



- h. When detention structures are planned to reduce future condition peak discharge, the soil cover complex method shall be used to compute the runoff volume and peak discharge for designing the structure. The design will conform to the criteria outlined for the types of structures given in the “Stormwater Management and Erosion and Sediment Control Handbook for Urban and Developing Areas in New Hampshire”
  - i. Copies of pertinent State and Federal Permits
  - j. An example of Stormwater Management Plan table of contents follows:
    - 1) Project Overview
    - 2) Owner
    - 3) Address of Development
    - 4) Location of the site
    - 5) Description of receiving waters
    - 6) Nature and purpose of the land disturbing activity
    - 7) Limits of disturbance
    - 8) Construction schedule
    - 9) Existing conditions summary
    - 10) Define topography, drainage patterns, soils, groundcover, critical areas adjacent areas, upstream areas draining through the site, existing development, existing stormwater facilities, on- and off-site utilities, construction limitations, buffers, wetlands, streams, sensitive areas, and other pertinent features
    - 11) Include an existing conditions plan (drawing) showing the above existing conditions and labeled per the narrative above
    - 12) Off-site analysis
    - 13) Describe the tributary area (include at least 1/4-mile downstream), drainage channels, conveyance systems and downstream receiving waters
    - 14) Review existing or potential problems resulting from the development including, but not limited to, sedimentation, erosion, water quality issues, chemical spills
    - 15) Demonstrate that the development of the site will not affect the downstream systems negatively
    - 16) Demonstrate adequate capacity of the downstream system to handle flow conditions after development
    - 17) As applicable, include an off-site drainage plan (the plan may be part of the existing conditions plan)
    - 18) Special reports, studies, maintenance information
    - 19) As applicable, include test pit logs forms, soil conditions data, and wetland delineation information
    - 20) As applicable, include information regarding long-range maintenance of any closed drainage systems, detention/retention facilities, etc
    - 21) Appendix (include copies of all tables, graphs, and charts, test pit, and percolation test data used in any of the above calculations)
6. Responsibility for Installation/Construction
- a. The applicant and the applicant’s engineer (or technical representative) shall schedule and attend a mandatory preconstruction meeting with the Town at least two (2) week prior to commencement of construction. Two (2) copies of the SWPPP (if required), SWMP and associated construction documents, and Notice of Intent (NOI) (if required) must be

provided at that time. All documents must bear the seal and signature of the registered Professional Engineer preparing the documents. Prior to commencement of construction the Code Enforcement Officer will confirm that the documents submitted meet the conditions of plan approval.

- b. The applicant shall bear financial responsibility for the installation, construction, inspection and disposition of all stormwater management and erosion control measures required by the provisions of this Ordinance.
- c. The Planning Board shall require a bond or other security in an amount and with the surety conditions satisfactory to the Board, providing for the actual construction and installation of such measures within a period specified by the Planning Board and expressed in the bond or surety.
- d. The Town shall require the owner or his authorized agent to deposit in escrow with the Town an amount of money sufficient to cover the costs for inspection and any professional assistance required for compliance site monitoring.
- e. Site development shall not begin before the stormwater management and erosion control plan receives approval from the Planning Board or their designated agent. Best Management Practices shall be installed as designed and scheduled as a condition of final approval of the plan.
- f. Commercial and Industrial Development and/or Redevelopment:  
The applicant, owner, and owner's legally designated representative (if any) shall all hold responsibility for implementing the stormwater management and erosion control plan.
- g. Residential Development and Redevelopment:  
The applicant is responsible for implementing the stormwater management and erosion control plan. There are two (2) ways for the applicant to be removed from the responsible party (in the Town's jurisdiction):
  - a. The applicant completes the project in a satisfactory manner and files a Notice of Termination (NOT) with the EPA in accordance with the terms of the Federal requirements
  - b. The applicant passes legal responsibility of the plan to another competent party. In the case of a new subdivision where lots may be transferred to a different entity for construction of the buildings, it is the applicant's responsibility to ensure that the applicant has a legal basis to require compliance by the new entity
- h. Individual Homeowner Development:  
Once the homeowner had taken control of a subdivided property, the homeowner bears the responsibility for compliance with the approved stormwater management and erosion control plan. If the homeowner is contracting building services to another person or entity, the homeowner may choose to pass legal responsibility of compliance to the contracted entity. If the responsibility is not passed, the homeowner remains the responsible party and must comply with the terms of the original plan.

## 7. Plan Approval and Review

- a. The Planning Board or their designated agent shall indicate approval of the stormwater management and erosion control plan, as filed, if it complies with the requirements and objectives of this Ordinance. If applicable, such approval shall be a component of subdivision or site plan approval, but shall not relieve the applicant of the need to comply with requirements relating to stormwater drainage systems design that may also be contained in other applicable subdivision and/or site plan regulations.
- b. Final approval shall be contingent upon collection of any required fees or escrow amounts related to technical review of any stormwater management and erosion control plan prepared under this Ordinance.

8. Maintenance, Inspection and Maintenance Security

- a. A narrative description of ongoing construction and operational maintenance requirements for water quality measures required by stormwater management and erosion and sediment control plans after final Planning Board approval shall be recorded on the deed, and any accompanying development agreements or covenants, to the property on which such measures are located. The narrative shall be in the form of a typical site plan management, development agreement, or as otherwise set forth by the Planning Board. The description so prepared shall comply with the requirements of RSA 478:4-a as detailed below:
  - 1) The Registry of Deeds shall not accept a deed or instrument for filing and recording unless it recites the following information:
    1. The latest mailing address of the grantees named in the deed or instrument.
    2. In the first sentence of the first description paragraph, the names of all municipalities in which the property is located. The name of each person signing the deed or instrument as a party to the transaction is printed or typewritten under the signature.
  - 2) All documents shall be suitable for reproduction as determined but the Rockingham County Registry of Deeds, which shall provide document standards as amended and adopted by the New Hampshire registers of deeds. The standards and any amendments thereto shall include a statement of their effective date, and shall be posted in and distributed by all registries of deeds for at least sixty (60) days prior to such effective date.
  - 3) In the event of any changes in Registry procedure or requirements, RSA 478:4-a shall supersede the above requirements, and the applicant shall fulfill those requirements.
- b. There shall further be a copy of the maintenance requirements on site during construction activity. During the time of construction, a log and report must be submitted to the Town twice each month, and within 48 hours of any storm event with greater than 1" of rainfall. This report shall detail all inspections; any actions taken per the construction stormwater management and erosion control plan, including the reasons for doing so, dates of action, and follow up action required. After construction, this copy of the maintenance

requirements shall be given to a responsible party, either at the maintenance/management company, or in the Homeowners' Association. This party will be responsible for preparing a yearly log and report, to be submitted to the Town no later than the close of business on the last business day in January. This report shall contain all of the information required in the bi-weekly reports.

- c. If the applicant, manager or owner is unable to adequately provide the required maintenance activities, the Town may require additional escrow funding to be used by either the applicant or the Town solely to repair, replace and/or maintain the required measures.
- d. All developments shall be required to submit annual inspection checklists as provided by the Planning Department to certify that proper maintenance of on-site drainage infrastructure and stormwater systems have been performed and are functioning properly. These checklists must be submitted by October 1<sup>st</sup> each year to the Town of Plaistow Department of Building Safety. [Amended 3-13-2012 ATM by Art. P-12-30]
- e. If permission to inspect is denied by the landowner, the Code Enforcement Officer or their designee shall secure and administrative inspection warrant from the district or superior court under RSA 595-B.

#### **§ 220-117.4. Enforcement and Penalties**

1. The purpose of this article it to enact locally the administrative and enforcement procedures set for in RSA Title LXIV, specifically RSA 676:15, 16, 17 and 17-b, of the exiting planning and land use statutes.
2. RSA Title LXIV, (64), specifically RSA 676:15, 16, 17, 17-a and 17-b, authorizes the following penalties and remedies for enforcement of the provisions of this Ordinance:
  - a. Injunctive relief in accordance with RSA 676:15
  - b. Fines and penalties in accordance with RSA 676:17
  - c. Issuance of a cease and desist order in accordance with 676:17-a
  - d. Pleas by mail for local land use citations in accordance with RSA 676:17-b
3. Any violation of the requirements of this Ordinance shall be subject to enforcement by the Code Enforcement Officer, or their designated agent for the Town of Plaistow, who shall be empowered to take any action authorized by the provisions of RSA Title PXIV, or any other applicable law, ordinance or regulation.

Prior to taking any other action, the Town shall issue a Notice of Violation.

#### **§ 220-117.5. Other Required Permits**

In addition to local approval, copies of the following permits shall be required if applicable:

1. RSA 485-A:17 requires a permit from the New Hampshire Water Supply and Pollution Control Division for "...any person proposing to significantly alter the characteristic of

the terrain, in such a manner as to impede natural runoff or create an unnatural runoff...”. Regulations require this permit for any project involving more the 100,000 contiguous square feet of disturbance or if such activity occurs in or on the border of the surface waters of the state.

2. National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit. A permit issued by the EPA or by the State under authority delegated pursuant to 33 USC, section 1342(b) that authorized the discharge of pollutants to water of the United States.
3. For a cumulative disturbance of one (1) acre of land that EPA considers “construction activity,” which includes, but is not limited to clearing, grading, excavation and other activities that expose soil typically related to landscaping, demolition and construction of structures and roads, a federal permit will be required. Consult EPA for specific rules. This EPA permit is in addition to any state or local permit required. To apply, the entity or individual responsible for construction site operations shall file and Notice of Intent (NOI) with the EPA postmarked at least 24 hours prior to work beginning. EPA will respond within two (2) weeks with a written permit, provided the NOI meets their criteria.

#### **§ 220-117.6. Stormwater Discharges Associated with Commercial/Industrial Activities**

Each commercial and industrial facility approved under this Ordinance is required to perform annual site inspections (at a minimum). The site inspection must be documented and at a minimum should include: review of stormwater flow paths, conditions of any sediment or contaminant control devices, water quality notation, corrective actions and time frames is unacceptable water quality runoff is noted, and the name and position of the inspector. All records of the inspections must be made available to the Town or their designee upon request.

#### **§ 220-117.7. Notification for Spills or Other Non-Stormwater Discharges**

As soon as any person responsible for a facility, site, activity or operation as information of any known or suspected release of pollutants or non-stormwater discharges which are resulting or may result in illicit discharges or pollutants discharging into stormwater, the Town of Plaistow’s municipal storm system, state waters, or waters of the United States, said person shall take all necessary steps to ensure the discovery, containment and cleanup of such release as to minimize the effects of the discharge. If said individual is not competent to assess, contain, or clean-up, that persona shall immediately notify another competent individual or firm. If the substance poses an immediate health or safety concern, the Town of Plaistow’s Emergency Services must immediately be notified. This notification should be made as soon as possible, however, no later than 24 hours post event. This notification does not preclude and must be made in addition to any Federal or State required notifications. The site operator/owner must be ware that discharges such as treated swimming pool water are not allowed discharges unless appropriate measures have been taken to reduce the treatment chemical concentrations in the water.

#### **§ 220-117.8. Regulated Discharges to MS4 in Urbanized Area**

Portions of the Town of Plaistow's Municipal Separate Storm Sewer System (MS4) are within an "urbanized areas" (UA), as defined by the Bureau of Census, and fall under mandatory regulation under EPA Phase II Stormwater Management Regulations. This area is identified on the Town of Plaistow's Stormwater Map. Within the UA all discharges to Town streets and associated drainage systems, both open and closed, are regulated by the Town's MS4 Stormwater Permit. All land in Plaistow, both within and outside of the UA, will comply with this Ordinance.

**Sample Stormwater Permit Application**

Failure to provide all required materials and information could result in the review of this application being delayed for consideration. The applicant certifies to the truth of the following facts as part of his/her application.

1. Name of Applicant: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone/Fax Numbers: \_\_\_\_\_
2. Name of Engineer/Surveyor/Agent: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone/Fax Numbers: \_\_\_\_\_
3. Address (including Map & Lot) of Property for which permit is requested: \_\_\_\_\_
4. Type of Request: ☐ Commercial/Industrial ☐ Subdivision  
☐ Single Lot Development ☐ Municipality/Utility
5. Name(s) and complete mailing address(es) of Owner(s) if different from Applicant:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Description of the project for which a Stormwater and Erosion Control Permit is requested. Include development name, type, start date, and total square footage of land to be altered/cleared. Attach additional pages as necessary.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Required forms (submit ten (10) copied of all supporting materials):  
☐ Legal Description ☐ Drainage and Erosion Control Plan  
☐ Stormwater Management Plan Calculations & Drawings

I have reviewed Section ##### if the Town of Plaistow Zoning Ordinance regarding Stormwater and Erosion Control. For residential construction, the Town of Plaistow Department of Building Safety must be contacted for inspection within one business day or rough grading completion.

I further grant the right-of-entry onto this property, as described above, to the designated personnel of the Town for the purpose of inspecting and monitoring for compliance with the aforesaid Ordinance.

Signature of Applicant: \_\_\_\_\_  
Date of Submission: \_\_\_\_\_

**Sample Town of Plaistow Notice of Violation**

Dear Property Owner: \_\_\_\_\_

You are hereby informed that based upon an inspection performed by the local administrator on \_\_\_\_\_ (date), your property does not comply with the requirements of Article XVIA, Construction/Post-Construction Stormwater Ordinance, Stormwater and Erosion Control Regulations, or approved plans. You are hereby served written notice and instructed to correct the violations listed below:

A copy of the inspection report, which details the nature of the violation at hand is enclosed.

- a. Actions or conditions which violate the requirements of this Ordinance or plans approved under this Ordinance:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- b. The minimum that needs to be done to correct the violation(s):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- c. The violation must be corrected by: \_\_\_\_\_ (date)

- d. The property owner was forwarded a copy of this report on: \_\_\_\_\_ (date)

- e. The original has been filed in the Department of Building Safety on: \_\_\_\_\_ (date)

- f. A copy of the inspection report is attached: Yes: \_\_\_\_\_ No: \_\_\_\_\_

Sincerely, \_\_\_\_\_ Date: \_\_\_\_\_  
 Plaistow Code Enforcement Officer



## Appendix G: Dry Weather Flow Screening Form

# Dry Weather Outfall Inspection Form

## Location Information

Date: \_\_\_\_\_ Inspector: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Outfall ID: \_\_\_\_\_  
 Outfall Location: \_\_\_\_\_  
 Receiving Waterbody: \_\_\_\_\_  
 Photo Taken: Yes No Photo ID: \_\_\_\_\_

Weather: Clear Cloudy Approximate Temp: \_\_\_\_\_ Wind Present: Yes No  
 Precipitation in the past 3 days: No Yes \_\_\_\_\_ inches

Pipe Flow: None Trickle Steady 1/4 pipe flow or more  
 Seepage Flow: None Trickle Steady 1/4 pipe flow or more  
 Color (if flow is present): \_\_\_\_\_

## Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b>		<b>Odor:</b>		<b>Water Clarity:</b>	
None	0	None/Natural	0	Clear	0
Foam	3	Musty	5	Cloudy	5
Staining	5	Sewage/septic	10		
Floating Green Scum	8	Petroleum	10	Opaque	10
Oil / Film	9				
Vegetative Mat/or Gray Mat	9				
Sewage Solids	10				
<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>

GRAND TOTAL SCORE = \_\_\_\_\_

## Additional Information

Sediment Condition: Open 1/4 Full 1/2 Full 3/4 Full Plugged  
 Structure Condition: Excellent Good Fair Poor  
 Trash/litter present: Yes No Yard waste observed: Yes No  
 General Comments: \_\_\_\_\_

## Potential Sources / Actions Taken:

Sample collected? Yes No  
 By whom? \_\_\_\_\_

Parameters:	Results:

Follow up required: Yes No

NOTE: Sketch site map/note on back.

**NOTE: This information is to accompany the Dry Weather Outfall Inspection Form.**

**Odor** – Most strong odors, especially gasoline, oils, and solvents are likely associated with high responses on the toxicity screening test.

*Stale sanitary wastewater:* sewage

*Detergent, perfume:* Laundromat or household laundry

*Sulfur ("rotten eggs"):* industries that discharge sulfide compounds or organics (meat packers, canneries, dairies)

*Oil and gas:* facilities associated with vehicle maintenance or petroleum product storage (gas stations) or petroleum refineries

*Rancid-sour:* food preparation facilities (restaurants, hotels)

**Color** – Important indicator of inappropriate industrial sources. Dark colors, such as brown, gray, or black are the most common.

*Yellow:* chemical plants, textile, and tanning plants

*Brown:* meat packers, printing plants, metal works, stone and concrete, fertilizers, and petroleum refining facilities [note: can be from natural organic acids if a wetland is upstream]

*Green:* chemical plants, textile facilities

*Red:* meat packers [note: can be from organic acids if a wetland is upstream]

*Gray:* dairies

**Turbidity** – The cloudy appearance of water caused by the presence of suspended or colloidal matter. In dry weather, high turbidity is often a characteristic of undiluted industrial discharges.

*Cloudy:* sanitary wastewater, concrete or stone operations, fertilizer facilities, automotive dealers

*Opaque:* food processors, lumber mills, metal operations, pigment plants

**Floatable matter** – a contaminated flow may contain floating solids or liquids directly related to industrial or sanitary wastewater pollution. Floatables of industrial origin may include animal fats, spoiled food, oils, solvents, sawdust, foams, packing materials, or fuel.

*Oil sheen:* petroleum refiners or storage facilities and vehicle service facilities. [note: there is a type of bacteria that looks like an oil sheen. If you take a stick and swirl around the sheen, it will break up into blocky pieces if it is the bacteria. A true oil sheen will quickly re-form and not look blocky.]

*Toilet paper bits, fecal bits, food particles:* sanitary wastewater

*Soap suds:* if white or a clear sheen, laundry discharge (check odor) [note: can also occur from natural surfactants; usually off-white or tan with an earthy-fishy odor.]

**Deposits and Stains** – Any type of coating near the outfall, usually a dark color. Deposits and stains will often contain fragments of floatable substances.

*Lots of sediment:* construction site erosion, sand and gravel pits, winter road applications

*Oil stain:* petroleum storage, vehicle service facilities, petroleum refineries

*Rusty:* precipitates from iron-rich water (natural or industrial) [note: if slimy and clumpy, it could be iron bacteria]

*Grayish-black deposits and hair:* leather tanneries

*White crystalline powder:* nitrogenous fertilizer waste

**Vegetation** – Vegetation surrounding an outfall may show the effects of industrial pollutants. Decaying organic materials coming from various food product wastes would cause an increase in plant life, while the discharge of chemical dyes and inorganic pigments from textile mills could noticeably decrease vegetation. It is important not to confuse the adverse effects on high storm water flows on vegetation with highly toxic dry-weather intermittent flows.

*Excessive growth:* food product facilities, fertilizer runoff (lawns, golf courses, and farms)

*Inhibited growth:* high storm water flows, beverage facilities, printing plants, metal product facilities, drug manufacturing, petroleum facilities, vehicle service facilities, and automobile dealers

**Damage to Outfall Structures** – Outfall damage can be caused by severely contaminated discharges that are very acidic or basic in nature. Primary metal industries have a strong potential to cause outfall structure damage because their batch dumps are highly acidic. Poor construction, hydraulic scour, and old age can also negatively affect the condition of an outfall structure.

*Concrete or spalling (breaking off into chips or layers):* industrial flows

*Peeling paint:* industrial flows

*Metal corrosion:* industrial flows

This sheet was courtesy of the NHDES (modified from Pitt et al., 1993 Investigation of Inappropriate Pollutant Entries into Storm Drainage Systems: a User's Guide. EPA Office of research and Development, EPA/600/R-92/238).

## Storm Drain Outfall Characteristics Form

### Location Information

Date: \_\_\_\_\_ Inspector: \_\_\_\_\_

Time: \_\_\_\_\_

Outfall ID: \_\_\_\_\_

Outfall Location: \_\_\_\_\_

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: \_\_\_\_\_

Weather Clear Cloudy Approximate Temp: \_\_\_\_\_ Wind Present: Yes No

Precipitation in the past 3 days: No Yes \_\_\_\_\_ inches

Dry Weather Inspection Form Used: Yes No - No Discharge No - No Dry Weather No - Other

Pipe Flow: None Trickle Steady 1/4 pipe flow or more

Seepage Flow: None Trickle Steady 1/4 pipe flow or more

### Outfall Description *Select all that are applicable, fill in as necessary*

Submerged in water- no partially fully

Type: RCP CMP Dimension (inches) \_\_\_\_\_

Open Pipe- PVC HDPE Circular Box

Steel Other \_\_\_\_\_ Elliptical Other \_\_\_\_\_

Open Drainage- Concrete Trapezoidal Depth (inches) \_\_\_\_\_

Earthen Parabolic Top width (inches) \_\_\_\_\_

Riprap Other \_\_\_\_\_ Bottom width (inches) \_\_\_\_\_

Other \_\_\_\_\_

### Additional Information

Sediment Condition: Open ¼ Full ½ Full ¾ Full Plugged

Structure Condition: Excellent Good Fair Poor

Trash/litter present: Yes No N↑

Yard waste observed: Yes No

General Comments: \_\_\_\_\_

Actions Taken: \_\_\_\_\_

Follow-up Required: Yes No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 07:37

**Outfall ID:** BB-OF3

**Outfall Location:** -71.11011 42.84983

**Receiving Waterbody:** Bryant Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
Foam 1 /3  
Staining 5 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 15

**Odor:**

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 15

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 2 OFs in headwall from east and west of road. Both 12in and submerged. Runoff from 4 catch basin per direction collecting runoff of entire road. Headwall also contains a culvert for stream crossing and is the origin of Bryan Brook. Brook is runoff from BB-OF4, BB-OF6, wetland, 3 ponds, and Culvert St private development tributary.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	07:37
Outfall ID:	BB-OF3
Outfall Location:	-71.11011 42.84983
Receiving Waterbody:	Bryant Brook
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Fully	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	2 OFs in headwall from east and west of road. Both 12in and submerged. Runoff from 4 catch basin per direction collecting runoff of entire road. Headwall also contains a culvert for stream crossing and is the origin of Bryan Brook. Brook is runoff from BB-OF4, BB-OF6, wetland, 3 ponds, and Culvert St private development tributary.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

Date: June 8, 2021 Inspector: Emma Duguay

Time: 06:49

Outfall ID: BB-OF4

Outfall Location: -71.11165 42.85008

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 80 °F Wind Present: No

Precipitation in the past 3 days: No \_\_\_\_\_ inches

Pipe Flow: Trickle (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Color (if flow is present): \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	<b>5</b>	<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>

GRAND TOTAL SCORE = 5

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

Structure Condition: (Excellent, Good, Fair, Poor) Good

Trash/Litter present: Yes Yard waste observed: Yes

General Comments: Covered with yard debris. Minor flow form blockage. No sample collected. Flows to BB-OF3 Bryant Brook. Stormwater runoff form all road into 4 catch basins

Potential Sources/ Actions Taken: None

Samples collected? <u>No</u>	Parameters:	Results:
By whom? _____		

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>06:49</u>		
Outfall ID:	<u>BB-OF4</u>		
Outfall Location:	<u>-71.11165 42.85008</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Trickle</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>6.12</u>		
Top width (inches)	<u>10.12</u>		
Bottom width (inches)	<u>6.12</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>Yes</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>Covered with yard debris. Minor flow form blockage. No sample collected. Flows to BB-OF3 Bryant Brook. Stormwater runoff form all road into 4 catch basins</u>		
Actions Taken:	<u>None</u>		
Follow-up required:	<u>No</u>		



## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 07:04

**Outfall ID:** BB-OF6

**Outfall Location:** -71.11257 42.85153

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	1 /3	Musty	0 /5	Cloudy	0 /5
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	15	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 15

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Poor

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 2 pipes: 36 in CMP and 18 in RCP. Both submerged and a trickle of flow. CMP collects water from wetland and Culvert St private development tributary, and a fire pond. RCP is town OF from 2 wetlands and 4 catch basins. Trickle of flow from blocked wetland inlet, not street runoff, not sampled. Flows to seasonal stream, BB-OF4, BB-OF3, then Bryant Brook.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	Parameters:	Results:
By whom?		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>07:04</u>		
Outfall ID:	<u>BB-OF6</u>		
Outfall Location:	<u>-71.11257 42.85153</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u></u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>18</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>120</u>		
Bottom width (inches)	<u>108</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Poor</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>2 pipes: 36 in CMP and 18 in RCP. Both submerged and a trickle of flow. CMP collects water from wetland and Culvert St private development tributary, and a fire pond. RCP is town OF from 2 wetlands and 4 catch basins. Trickle of flow from blocked wetland inlet, not street runoff, not sampled. Flows to seasonal stream, BB-OF4, BB-OF3, then Bryant Brook.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 06:37

**Outfall ID:** BB-OF7L

**Outfall Location:** -71.11199 42.85394

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Brown

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	1 /3	Musty	5 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	1	<b>TOTAL</b>	5	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 6

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Not visible hidden under water, no sample no flow, submerged. Stormwater runoff from all road, 4 catch basins on road. Algae present.

**Potential Sources/ Actions Taken:** None

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>06:37</u>		
Outfall ID:	<u>BB-OF7L</u>		
Outfall Location:	<u>-71.11199 42.85394</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="display: inline-block; border: 1px solid black; border-radius: 50%; padding: 2px 5px; text-align: center;">Yes</div> <span style="margin-left: 20px;">No</span>	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F <span style="margin-left: 20px;">Wind Present: <u>No</u></span>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Fully</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>84</u>		
Bottom width (inches)	<u>60</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Good</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Not visible hidden under water, no sample no flow, submerged. Stormwater runoff from all road, 4 catch basins on road. Algae present.</u>		
Actions Taken:	<u>None</u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 08:56

**Outfall ID:** BB-OF7T

**Outfall Location:** -71.12224 42.85139

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 85 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Good. To wooded. From catch basin to culvert to inlet. Inlet also fed by wetland. Runoff from all road. Kelley Brook ~ 0.45 north.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	08:56
Outfall ID:	BB-OF7T
Outfall Location:	-71.12224 42.85139
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	85 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
18	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Riprap	Flat hill
Depth (inches)	
48	
Top width (inches)	
60	
Bottom width (inches)	
12	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	Yes
Yard waste observed:	No
General Comments:	Good. To wooded. From catch basin to culvert to inlet. Inlet also fed by wetland. Runoff from all road. Kelley Brook ~ 0.45 north.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 08:27

**Outfall ID:** BB-OF8

**Outfall Location:** -71.12346 42.85043

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 85 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** No flow in, OF inlet submerged resulting in water slowly dripping out, not collect to little. See photos for runoff overview. Kelly Brook ~ 0.45mi north.

#### Potential Sources/ Actions Taken:

Samples collected?		<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	08:27
Outfall ID:	BB-OF8
Outfall Location:	-71.12346 42.85043
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	85 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
18	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Flat slope
Depth (inches)	
48	
Top width (inches)	
36	
Bottom width (inches)	
36	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	No flow in, OF inlet submerged resulting in water slowly dripping out, not collect to little. See photos for runoff overview. Kelly Brook ~ 0.45mi north.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 08:44

**Outfall ID:** BB-OF9

**Outfall Location:** -71.12717 42.85465

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 85 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Slow drip out. Do to flat slope of pipe not draining. No active flow in, not collected. See photos for runoff overview. Kelly Brook ~ 0.42 mi north.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>08:44</u>		
Outfall ID:	<u>BB-OF9</u>		
Outfall Location:	<u>-71.12717 42.85465</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="display: inline-block; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Yes</div> <u>No</u>	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>85</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Flat hill</u>
Depth (inches)	<u>48</u>		
Top width (inches)	<u>48</u>		
Bottom width (inches)	<u>6</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Slow drip out. Do to flat slope of pipe not draining. No active flow in, not collected. See photos for runoff overview. Kelly Brook ~ 0.42 mi north.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 07:58

**Outfall ID:** CHB-OF1

**Outfall Location:** -71.10327 42.85818

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 55 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 3 catch basins (east) tie into outfall and 1 (west). Outfalls to woodland. Camel Hill Brook lies ~360 ft north in woodland.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	07:58
Outfall ID:	CHB-OF1
Outfall Location:	-71.10327 42.85818
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	55 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
15	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Parabolic
Depth (inches)	
32	
Top width (inches)	
60	
Bottom width (inches)	
36	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	3 catch basins (east) tie into outfall and 1 (west). Outfalls to woodland. Camel Hill Brook lies ~360 ft north in woodland.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 08:12

**Outfall ID:** CHB-OF2

**Outfall Location:** -71.10522 42.86014

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 55 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Catch basins on Old County Rd (east) connect to catch basin on PARC rd. Crosses PARC rd and outfalls into lawn. Camel Hill Brook located ~190 ft north.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	08:12
Outfall ID:	CHB-OF2
Outfall Location:	-71.10522 42.86014
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	55 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
18	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Parabolic	
Depth (inches)	
20	
Top width (inches)	
60	
Bottom width (inches)	
50	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Catch basins on Old County Rd (east) connect to catch basin on PARC rd. Crosses PARC rd and outfalls into lawn. Camel Hill Brook located ~190 ft north.
Actions Taken:	
Follow-up required:	No



# Dry Weather Outfall Inspection Form

Location Information			
Date:	May 20, 2021	Inspector:	Emma Duguay
Time:	08:29		
Outfall ID:	CHB-OF3		
Outfall Location:	-71.11925 42.86805		
Receiving Waterbody:	Camel Hill Brook		
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)	Approximate Temp:	55 °F Wind Present: No
Precipitation in the past 3 days:	No _____ inches		
Pipe Flow:	None _____		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None _____		(None, Trickle, Steady, ¼ pipe flow or more)
Color (if flow is present):	_____		
Inspection Information <i>Select all that are applicable</i>			
Obvious Debris/Pollution:		Odor:	Water Clarity:
None	0 /0	None/Natural	0 /0 Clear 0 /0
Foam	0 /3	Musty	0 /5 Cloudy 0 /5
Staining	0 /5	Sewage/septic	0 /10 Opaque 0 /10
Floating Green Scum	0 /8	Petroleum	0 /10
Oil/Film	0 /9		
Vegetative Mat/Gray Mat	9 /9		
Sewage Solids	0 /10		
<b>TOTAL</b>	<div style="border: 1px solid black; padding: 2px 10px;">9</div>	<b>TOTAL</b>	<div style="border: 1px solid black; padding: 2px 10px;">0</div>
<b>GRAND TOTAL SCORE =</b>	<div style="border: 1px solid black; padding: 2px 10px;">9</div>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	1/2 Full	
Structure Condition:	(Excellent, Good, Fair, Poor)	Excellent	
Trash/Litter present:	No	Yard waste observed:	No
General Comments:	Standing water. No flow, did not sample. Drains to Camel Hill Brook. Stormwater runoff from ChB-OF4 area down.		
Potential Sources/ Actions Taken:			
Samples collected?	No	Parameters:	Results:
By whom?			
Follow-up required:	No		

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	08:29
Outfall ID:	ChB-OF3
Outfall Location:	-71.11925 42.86805
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	55 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Standing water. No flow, did not sample. Drains to Camel Hill Brook. Stormwater runoff from ChB-OF4 area down.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 08:38

**Outfall ID:** CHB-OF4

**Outfall Location:** -71.11917 42.86874

**Receiving Waterbody:** Camel Hill Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**       

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Culvert. Starts from ground seepage uphill near Old County Rd and Deer Hollow Rd entrance. Flowing, not runoff, no sample.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom?       

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>08:38</u>		
Outfall ID:	<u>CHB-OF4</u>		
Outfall Location:	<u>-71.11917 42.86874</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>60</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u></u>		
Pipe Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>16</u>		
Top width (inches)	<u>30</u>		
Bottom width (inches)	<u>12</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Excellent</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Culvert. Starts from ground seepage uphill near Old County Rd and Deer Hollow Rd entrance. Flowing, not runoff, no sample.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 11:08

**Outfall ID:** KB-11

**Outfall Location:** -71.10188 42.85344

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Runoff from ~ 3 houses surrounding Walton Rd/ Shady Ln intersection with 2 catch basins to town outlet into road side swale. State inlet from swale across, Walton Rd outlets into swale along Plaistow Rd then flows downhill to Kelly Brook.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?			

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>11:08</u>		
Outfall ID:	<u>KB-11</u>		
Outfall Location:	<u>-71.10188 42.85344</u>		
Receiving Waterbody:	<u>Kelley Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>75</u> °F      Wind Present: <u>Yes</u>
Precipitation in the past 3 days:	<u>                </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Riprap</u>	(Trapezoidal, Parabolic, Other)	<u>Riprap hill to earth parabolic</u>
Depth (inches)	<u>200</u>		
Top width (inches)	<u>180</u>		
Bottom width (inches)	<u>120</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Excellent</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Runoff from ~ 3 houses surrounding Walton Rd/ Shady Ln intersection with 2 catch basins to town outlet into road side swale. State inlet from swale across, Walton Rd outlets into swale along Plaistow Rd then flows downhill to Kelly Brook.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 11:25

**Outfall ID:** KB-OF1

**Outfall Location:** -71.0931 42.85313

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Pipe tied into catch basin actively flowing; source of outfall flow. Potentially from 5 Old County Rd. Only 1 road inlet drains to catch basin, and is dry. Runoff is from top hill about curve. OF to woodland, possibly wetland. Kelly Brook ~0.26mi southwest.

**Potential Sources/ Actions Taken:** Potentially from house. Sample collected from flowing pipe in catch basin

<b>Samples collected?</b> <b>By whom?</b>	<u>Yes</u>	<b>Parameters:</b>	<b>Results:</b>
	<u>Emma Duguay</u>	Cond	500
		Temp	16.2

**Follow-up required:** Yes



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	11:25
Outfall ID:	KB-OF1
Outfall Location:	-71.0931 42.85313
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	Trickle (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	CMP
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Earthen
Shape	
(Trapezoidal, Parabolic, Other)	Trapezoidal
Depth (inches)	24
Top width (inches)	18
Bottom width (inches)	12
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Pipe tied into catch basin actively flowing; source of outfall flow. Potentially from 5 Old County Rd. Only 1 road inlet drains to catch basin, and is dry. Runoff is from top hill about curve. OF to woodland, possibly wetland. Kelly Brook ~0.26mi southwest..
Actions Taken:	Sample collected from flowing pipe in catch basin.
Follow-up required:	Yes

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 10:46

**Outfall ID:** KB-OF2

**Outfall Location:** -71.10439 42.85681 Coordinates from catch basin not OF

**Receiving Waterbody:** Kelly Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 70 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Did not find OF, buried leaf litter. Catch basin dry. Runoff from Fran Rd down, only on this side. Flows to wooded slope.

#### Potential Sources/ Actions Taken:

Samples collected?		<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	10:46
Outfall ID:	KB-OF2
Outfall Location:	-71.10439 42.85681 Coordinates from catch basin not OF
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	70 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
PVC	Circular
Dimensions (inches)	0
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Parabolic	Parabolic
Depth (inches)	0
Top width (inches)	0
Bottom width (inches)	0
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Did not find OF, buried leaf litter. Catch basin dry. Runoff from Fran Rd down, only on this side. Flows to wooded slope.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay  
**Time:** 10:51  
**Outfall ID:** KB-OF3  
**Outfall Location:** -71.10573 42.85707  
**Receiving Waterbody:** Kelly Brook  
**Photo Taken:** Yes No **Photo ID:** Please see photo log  
**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 70 °F **Wind Present:** No  
**Precipitation in the past 3 days:** No inches  
**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Color (if flow is present):**

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full  
**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent  
**Trash/Litter present:** No **Yard waste observed:** No  
**General Comments:** Dry. Buried in leaf litter. Drains to Kelly Brook. Runoff from uphill both directions.

#### Potential Sources/ Actions Taken:

Samples collected? <u>No</u> By whom? <u></u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Parameters:</th> <th style="text-align: left;">Results:</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Parameters:	Results:						
Parameters:	Results:								

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>10:51</u>		
Outfall ID:	<u>KB-OF3</u>		
Outfall Location:	<u>-71.10573 42.85707</u>		
Receiving Waterbody:	<u>Kelly Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>70</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>CMP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>12</u>		
Top width (inches)	<u>12</u>		
Bottom width (inches)	<u>6</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>1/4 Full</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Excellent</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Dry. Buried in leaf litter. Drains to Kelly Brook. Runoff from uphill both directions.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 09:11

**Outfall ID:** KBT1-OF1

**Outfall Location:** -71.12109 42.86673

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** 1/4 pipe flow or more (None, Trickle, Steady, 1/4 pipe flow or more)

**Seepage Flow:** 1/4 pipe flow or more (None, Trickle, Steady, 1/4 pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
 Foam 0 /3  
 Staining 5 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 9 /9  
 Sewage Solids 0 /10

**TOTAL** 14

#### Odor:

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 14

### Additional Information

**Sediment Condition:** (Open, 1/4 Full, 1/2 Full, 3/4 Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing from Retention pond, suds in 2nd catch basin leading up to pond, water to pond comes from wooded wet uphill across St. Not from runoff, did not sample

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Emma Duguay</u>		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>09:11</u>		
Outfall ID:	<u>Kbt-of1</u>		
Outfall Location:	<u>-71.12109 42.86673</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>60</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u> Running from detention pond		
Pipe Flow:	<u>1/4 pipe flow or more</u>		(None, Trickle, Steady, 1/4 pipe flow or more)
Seepage Flow:	<u>1/4 pipe flow or more</u>		(None, Trickle, Steady, 1/4 pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>24</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>72</u>		
Top width (inches)	<u>100</u>		
Bottom width (inches)	<u>60</u>		
Additional Information			
Sediment Condition:	(Open, 1/4 Full, 1/2 Full, 3/4 Full, Plugged)		<u>1/4 Full</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Excellent</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Flowing from Retention pond, suds in 2nd catch basin leading up to pond, water to pond comes from wooded wet uphill across St. Not from runoff, did not sample</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 08:56

**Outfall ID:** KBT1-OF2

**Outfall Location:** -71.12544 42.87259

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Culvert, not OF. Drains directly to retention pond with culvert drainage, going to additional culverts and catch basins.

#### Potential Sources/ Actions Taken:

Samples collected?		<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	08:56
Outfall ID:	Kbt1-of2
Outfall Location:	-71.12544 42.87259
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Riprap
Shape	
(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	80
Top width (inches)	500
Bottom width (inches)	30
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Culvert, not OF. Drains directly to retention pond with culvert drainage, going to additional culverts and catch basins.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 09:40

**Outfall ID:** KBT1-OF3

**Outfall Location:** -71.12496 42.86485

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	<b>9</b>	<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Runoff from 2 catch basins on Hickory Ridge, outlets into swale in yard, to inlet, and outfalls in wetland. Flowing into swale, sampled at OF.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>Yes</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Emma Duguay</u>	Cond	<u>530</u>
		Temp	<u>15.8</u>

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	09:40
Outfall ID:	KBT1-OF3
Outfall Location:	-71.12496 42.86485
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Runoff from 2 catch basins on Hickory Ridge, outlets into swale in yard, to inlet, and outfalls in wetland. Flowing into swale, sampled at OF.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 09:28

**Outfall ID:** KBT1-OF3M

**Outfall Location:** -71.12186 42.8647

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 5 /5  
Floating Green Scum 8 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 22

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 10 /10

**TOTAL** 10

**GRAND TOTAL SCORE =** 32

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flows from retention? Pond across street. Not from runoff, did not sample. Outlet flows to woodland (wetland?). Street runoff not tied into outlet.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	09:28
Outfall ID:	KBT-OF3M
Outfall Location:	-71.12186 42.8647
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	
Pipe Flow:	Trickle (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Earthen
Shape	
(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	72
Top width (inches)	60
Bottom width (inches)	50
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Flows from retention? Pond across street. Not from runoff, did not sample. Outlet flows to woodland (wetland?). Street runoff not tied into outlet.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 09:09

**Outfall ID:** LB-OF1

**Outfall Location:** -71.11856 42.84221

**Receiving Waterbody:** Line Brook

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 85 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	14	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 14

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Outfall collects runoff from 8 catch basins to the east, running from Timberlane Regional school property down. Outfall discharges along approximately 2ft of riprap then merges with Line Brook.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?			

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>09:09</u>		
Outfall ID:	<u>LB-OF1</u>		
Outfall Location:	<u>-71.11856 42.84221</u>		
Receiving Waterbody:	<u>Line Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>85</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>CMP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>15</u>		
Bottom width (inches)	<u>12</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Outfall collects runoff from 8 catch basins to the east, running from Timberlane Regional school property down. Outfall discharges along approximately 2ft of riprap then merges with Line Brook.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 07:52

**Outfall ID:** LB-OF2

**Outfall Location:** -71.11594 42.846

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	1 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	1	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 1

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** LB-OF2 outfall discharge of water from BB-OF2 detention pond sourced from wooded wetland/stream. Stormwater discharge path dry. Did not sample. LB-OF2 discharges to wet wooded area.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Other</u>		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	07:52
Outfall ID:	LB-OF2
Outfall Location:	-71.11594 42.846
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	Trickle (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	18
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Earthen
Shape	
(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	36
Top width (inches)	4.12
Bottom width (inches)	12
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	LB-OF2 outfall discharge of water from BB-OF2 detention pond sourced from wooded wetland/stream. Stormwater discharge path dry. Did not sample. LB-OF2 discharges to wet wooded area.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 08:08

**Outfall ID:** LB-OF3

**Outfall Location:** -71.11686 42.84774

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** Yes **Yard waste observed:** Yes

**General Comments:** LB-OF3 source of flow from wetland, sprinkler, slow draining blocked inlet, and catch basins 1 & 2 are deep and may potentially contain natural ground water. Not from tie ins or stormwater runoff. Did not sample.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>08:08</u>		
Outfall ID:	<u>LB-OF3</u>		
Outfall Location:	<u>-71.11686 42.84774</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Trickle</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>18</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Riprap</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>72</u>		
Bottom width (inches)	<u>12</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Excellent</u>	
Trash/Litter present:	<u>Yes</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>LB-OF3 source of flow from wetland, sprinkler, slow draining blocked inlet, and catch basins 1 &amp; 2 are deep and may potentially contain natural ground water. Not from tie ins or stormwater runoff. Did not sample.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** July 10, 2021 **Inspector:** Emma Duguay

**Time:** 13:59

**Outfall ID:** LR-I1

**Outfall Location:** -71.10632 42.82818

**Receiving Waterbody:** State catch basins

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 8,0 °F **Wind Present:** No  
12

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**       

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None /0 Foam /3 Staining /5 Floating Green Scum /8 Oil/Film /9 Vegetative Mat/Gray Mat /9 Sewage Solids /10 <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>	<b>Odor:</b> None/Natural /0 Musty /5 Sewage/septic /10 Petroleum /10  <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>	<b>Water Clarity:</b> Clear /0 Cloudy /5 Opaque /10  <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>
--	--	---

**GRAND TOTAL SCORE =**       

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Potential manhole covered up where town and state connect, can't find. Town 12inch RCP, state 15inch.

**Potential Sources/ Actions Taken:**       

Samples collected? <u>      </u>	<b>Parameters:</b>	<b>Results:</b>
By whom? <u>      </u>		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	July 10, 2021	Inspector:	Emma Duguay
Time:	13:59		
Outfall ID:	LR-I1		
Outfall Location:	-71.10632 42.82818		
Receiving Waterbody:	State catch basins		
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)	Approximate Temp:	8,0 °F 12
		Wind Present:	No
Precipitation in the past 3 days:		inches	
Dry weather inspection form used?	No		
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) No			
Type:			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Catch	(Trapezoidal, Parabolic, Other)	Catch
Depth (inches)	0		
Top width (inches)	0		
Bottom width (inches)	0		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open
Structure Condition:	(Excellent, Good, Fair, Poor)		Good
Trash/Litter present:	No		
Yard waste observed:	No		
General Comments:	Potential manhole covered up where town and state connect, can't find. Town 12inch RCP, state 15inch. Additional comments with photos.		
Actions Taken:			
Follow-up required:	No		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 14:10

**Outfall ID:** LR-i2

**Outfall Location:** -71.10663 42.82764

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** See photos and LR-i1

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?		<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>14:10</u>		
Outfall ID:	<u>LR-i2</u>		
Outfall Location:	<u>-71.10663 42.82764</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>No</u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Catches</u>	(Trapezoidal, Parabolic, Other)	<u>Catches</u>
Depth (inches)	<u>0</u>		
Top width (inches)	<u>0</u>		
Bottom width (inches)	<u>0</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>See photos and LR-i1</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 13:42

**Outfall ID:** LR-i3

**Outfall Location:** -71.09324 42.82346

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 2 town catch basins tie into state catch basin on Kingshaw Ave, then continue downhill to additional state catch basins on N Main St.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	_____	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	13:42
Outfall ID:	LR-i3
Outfall Location:	-71.09324 42.82346
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12 town 15 state
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Catch basins
Shape	
(Trapezoidal, Parabolic, Other)	Catches
Depth (inches)	0
Top width (inches)	0
Bottom width (inches)	0
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	2 town catch basins tie into state catch basin on Kingshaw Ave, then continue downhill to additional state catch basins on N Main St.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 15:23

**Outfall ID:** LR-i3 B

**Outfall Location:** -71.10803 42.82874

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches Rain8ng

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 15 inch

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	Parameters:	Results:
By whom?		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	15:23					
Outfall ID:	LR-i3 B					
Outfall Location:	-71.10803 42.82874					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	80 °F	Wind Present:	No
Precipitation in the past 3 days:			inches	Rain8ng		
Dry weather inspection form used?	No					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material			Shape			
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP		(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)	15					
Open Drainage-						
Material	Catch basin to		Shape			
(Concrete, Earthen, Riprap, Other)	earthen outlet		(Trapezoidal, Parabolic, Other)	Catch		
Depth (inches)	0					
Top width (inches)	0					
Bottom width (inches)	0					
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Good			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	15 inch					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 15:15

**Outfall ID:** LR-i4

**Outfall Location:** -71.10817 42.83146

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches Sprinkling

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Interconnection of state catch basins on East Rd to Blossom Rd town catch basins, then back to East Rd state catch basins. RCP18"-24".

### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	15:15					
Outfall ID:	LR-i4					
Outfall Location:	-71.10817 42.83146					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	80 °F	Wind Present:	No
Precipitation in the past 3 days:			inches	Sprinkling		
Dry weather inspection form used?	No					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)		Circular	
Dimensions (inches)		18				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Catch basin	(Trapezoidal, Parabolic, Other)		Catch	
Depth (inches)		0				
Top width (inches)		0				
Bottom width (inches)		0				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Good			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Interconnection of state catch basins on East Rd to Blossom Rd town catch basins, then back to East Rd state catch basins. RCP18"-24".					
Actions Taken:	None					
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 13:06

**Outfall ID:** LR-i5

**Outfall Location:** -71.08821 42.84379

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches Starting to sprinkle

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	<b>TOTAL</b>	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Kingston Rd state catch basins discharge north side Hale Spring Rd (HSR) to culvert crossing HSR. HSR culvert discharges into swale. State installing catch basins on HSR town road. HSR catch basins tie into manhole which discharges into swale. Swale discharges via culvert across Kingston Rd southwest, connects with additional Kingston Rd catch basins and release into woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>13:06</u>		
Outfall ID:	<u>LR-i5</u>		
Outfall Location:	<u>-71.08821 42.84379</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px 5px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches	<u>Starting to sprinkle</u>	
Dry weather inspection form used?	<u>No</u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u></u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material	<u>Mix riprap,</u>	Shape	
(Concrete, Earthen, Riprap, Other)	<u>earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>96</u>		
Top width (inches)	<u>0</u>		
Bottom width (inches)	<u>0</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Good</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Kingston Rd state catch basins discharge north side Hale Spring Rd (HSR) to culvert crossing HSR. HSR culvert discharges into swale. State installing catch basins on HSR town road. HSR catch basins tie into manhole which discharges into swale. Swale discharges via culvert across Kingston Rd southwest, connects with additional Kingston Rd catch basins and release into woods.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 12:36

**Outfall ID:** LR-OF1

**Outfall Location:** -71.10113 42.82559

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 5 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 14

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 14

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Standing water. Flows down swale in yard to wetland. Flow from retention pond. Google image appears pond fed by wet wooded.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>12:36</u>		
Outfall ID:	<u>LR-of1</u>		
Outfall Location:	<u>-71.10113 42.82559</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F Wind Present: <u>Yes</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u></u>	Standing water from detention pond to wetland eventually to stream <u></u>	
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>30</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>12</u>		
Top width (inches)	<u>300</u>		
Bottom width (inches)	<u>96</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Excellent</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Standing water. Flows down swale in yard to wetland. Flow from retention pond. Google image appears pond fed by wet wooded.</u>		
Actions Taken:	<u>None</u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 12:50

**Outfall ID:** LR-OF2

**Outfall Location:** -71.09902 42.82615

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 5 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 9 /9  
 Sewage Solids 0 /10

**TOTAL** 14

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 14

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Standing water flow to woods. Street run off from approximately house 216 to circle.

**Potential Sources/ Actions Taken:**

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	May 20, 2021	Inspector:	Emma Duguay
Time:	12:50		
Outfall ID:	Lr-of2		
Outfall Location:	-71.09902 42.82615		
Receiving Waterbody:			
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)	Approximate Temp:	80 °F Wind Present: Yes
Precipitation in the past 3 days:		inches	
Dry weather inspection form used?			
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) Partially			
Type:			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	24		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Earthen	(Trapezoidal, Parabolic, Other)	Trapezoidal
Depth (inches)	80		
Top width (inches)	1,200		
Bottom width (inches)	36		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent
Trash/Litter present:	Yes		
Yard waste observed:	No		
General Comments:	Standing water flow to woods. Street run off from approximately house 216 to circle.		
Actions Taken:			
Follow-up required:	No		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 13:41

**Outfall ID:** LR-OF3

**Outfall Location:** -71.10173 42.82817

**Receiving Waterbody:** Little River

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Storm drain dry. Adjacent Little River stream culvert, flowing.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 20, 2021
Inspector:	Emma Duguay
Time:	13:41
Outfall ID:	LR-OF3
Outfall Location:	-71.10173 42.82817
Receiving Waterbody:	Little River
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
RCP	Circular
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
1,200	Trapezoidal
Top width (inches)	
40	
Bottom width (inches)	
24	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Storm drain dry. Adjacent Little River stream culvert, flowing.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 13:50

**Outfall ID:** LR-OF4

**Outfall Location:** -71.10107 42.82949

**Receiving Waterbody:** Little River

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 8,0 °F **Wind Present:** No  
12

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**       

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry flat good. Flows into woods. Little River approximately 260ft west.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom?       

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	May 20, 2021		Inspector:	Emma Duguay		
Time:	13:50					
Outfall ID:	LR-OF4					
Outfall Location:	-71.10107 42.82949					
Receiving Waterbody:	Little River					
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Clear	(Clear, Cloudy)	Approximate Temp:	8,0 °F	Wind Present:	No
				12		
Precipitation in the past 3 days:	_____ inches					
Dry weather inspection form used?	<input checked="" type="checkbox"/> Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) <input checked="" type="checkbox"/> No						
Type:						
Open Pipe-						
Material			Shape			
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP		(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)	12					
Open Drainage-						
Material			Shape			
(Concrete, Earthen, Riprap, Other)	Flat		(Trapezoidal, Parabolic, Other)	Parabolic		
Depth (inches)	36					
Top width (inches)	0					
Bottom width (inches)	0					
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Dry flat good. Flows into woods. Little River approximately 260ft west.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 13:00

**Outfall ID:** LR-OF5

**Outfall Location:** -71.10024 42.82749

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 8,0 °F **Wind Present:** Yes  
12

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	<span style="border: 1px solid black; padding: 2px;">0</span>	<b>TOTAL</b>	<span style="border: 1px solid black; padding: 2px;">0</span>	<b>TOTAL</b>	<span style="border: 1px solid black; padding: 2px;">0</span>

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Poor

**Trash/Litter present:** Yes **Yard waste observed:** Yes

**General Comments:** Separated from head wall. Sample collected at separation point. Flows to wooded wet. Flows from 4 catch basins. Unknown where flow originated, 3 of 4 submerged.

### Potential Sources/ Actions Taken:

Samples collected?	<u>Yes</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Emma Duguay</u>	Cond	<u>990</u>
		Temp	<u>15.6</u>

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>13:00</u>		
Outfall ID:	<u>LR-OF5</u>		
Outfall Location:	<u>-71.10024 42.82749</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px 5px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>8,0</u> °F <u>12</u>
		Wind Present:	<u>Yes</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>No</u>		
Pipe Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>6</u>		
Top width (inches)	<u>24</u>		
Bottom width (inches)	<u>20</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Poor</u>	
Trash/Litter present:	<u>Yes</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>Separated from head wall. Sample collected at separation point. Flows to wooded wet. Flows from 4 catch basins. Unknown where flow originated, 3 of 4 submerged.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 14:05

**Outfall ID:** LR-OF6

**Outfall Location:** -71.09997 42.82867

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 8,0 °F **Wind Present:** Yes  
12

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Two catch basins on road. Outfalls to woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
<b>Date:</b>	<u>May 20, 2021</u>	<b>Inspector:</b>	<u>Emma Duguay</u>
<b>Time:</b>	<u>14:05</u>		
<b>Outfall ID:</b>	<u>LR-OF6</u>		
<b>Outfall Location:</b>	<u>-71.09997 42.82867</u>		
<b>Receiving Waterbody:</b>	<u></u>		
<b>Photo Taken:</b>	<div style="display: inline-block; border: 1px solid black; border-radius: 50%; padding: 2px 5px;">Yes</div> <u>No</u>	<b>Photo ID:</b>	<u>Please see photo log</u>
<b>Weather</b>	<u>Clear</u> (Clear, Cloudy)	<b>Approximate Temp:</b>	<u>8,0</u> °F <b>Wind Present:</b> <u>Yes</u>
			<u>12</u>
<b>Precipitation in the past 3 days:</b>	<u></u> inches		
<b>Dry weather inspection form used?</b>	<u>No</u>		
<b>Pipe Flow:</b>	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
<b>Seepage Flow:</b>	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
<b>Submerged in water? (No, partially, fully)</b> <u>No</u>			
<b>Type:</b>			
<b>Open Pipe-</b>			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
<b>Open Drainage-</b>			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Flat</u>
Depth (inches)	<u>12</u>		
Top width (inches)	<u>0</u>		
Bottom width (inches)	<u>0</u>		
Additional Information			
<b>Sediment Condition:</b>	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
<b>Structure Condition:</b>	(Excellent, Good, Fair, Poor)	<u>Excellent</u>	
<b>Trash/Litter present:</b>	<u>No</u>		
<b>Yard waste observed:</b>	<u>No</u>		
<b>General Comments:</b>	<u>Two catch basins on road. Outfalls to woods.</u>		
<b>Actions Taken:</b>	<u></u>		
<b>Follow-up required:</b>	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 14:45

**Outfall ID:** LR-OF7

**Outfall Location:** -71.09631 42.8299

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Street runoff from approximately house #8 to end. Releases into woods.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	May 20, 2021	Inspector:	Emma Duguay
Time:	14:45		
Outfall ID:	LR-OF7		
Outfall Location:	-71.09631 42.8299		
Receiving Waterbody:			
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)	Approximate Temp:	80 °F Wind Present: Yes
Precipitation in the past 3 days:		inches	
Dry weather inspection form used?	No		
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) No			
Type:			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Earthen	(Trapezoidal, Parabolic, Other)	Flat
Depth (inches)	12		
Top width (inches)	72		
Bottom width (inches)	12		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent
Trash/Litter present:	No		
Yard waste observed:	No		
General Comments:	Dry. Street runoff from approximately house #8 to end. Releases into woods.		
Actions Taken:			
Follow-up required:	No		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 14:33

**Outfall ID:** LR-OF8

**Outfall Location:** -71.09512 42.82799

**Receiving Waterbody:** 80

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**       

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 9

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Poor

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing; did not sample. Source of water from wetland uphill. Drains into wetland.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom?       

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	May 20, 2021		Inspector:	Emma Duguay		
Time:	14:33					
Outfall ID:	LR-OF8					
Outfall Location:	-71.09512 42.82799					
Receiving Waterbody:	80					
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Clear	(Clear, Cloudy)	Approximate Temp:	80 °F	Wind Present:	Yes
Precipitation in the past 3 days:	_____ inches					
Dry weather inspection form used?	<input checked="" type="checkbox"/> Yes					
Pipe Flow:	Trickle		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) <input checked="" type="checkbox"/> No						
<b>Type:</b>						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)		Circular	
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)		Parabolic	
Depth (inches)		24				
Top width (inches)		72				
Bottom width (inches)		12				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		1/4 Full			
Structure Condition:	(Excellent, Good, Fair, Poor)		Poor			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Flowing; did not sample. Source of water from wetland uphill. Drains into wetland.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 15:56

**Outfall ID:** LR-OF9

**Outfall Location:** -71.10467 42.83032

**Receiving Waterbody:** Little Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches Sprinkling h

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None /0 Foam /3 Staining /5 Floating Green Scum /8 Oil/Film /9 Vegetative Mat/Gray Mat /9 Sewage Solids /10 <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>	<b>Odor:</b> None/Natural /0 Musty /5 Sewage/septic /10 Petroleum /10  <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>	<b>Water Clarity:</b> Clear /0 Cloudy /5 Opaque /10  <b>TOTAL</b> <span style="border: 1px solid black; display: inline-block; width: 50px; height: 20px; vertical-align: middle;"></span>
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**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Catch basins from Park and Ride, and Freedom Auto tie into state catch basin. Then tie into town catch basin, across street additional tie in from across driveway. Then to Private parking lot (apartment building) catch basin, to OF (other side of fence) that drains downhill too Little Brook. Did not sample, raining.

**Potential Sources/ Actions Taken:** Whose is it to sample? Are we just interconnection? May need sample in correct weather. Was running.

Samples collected? _____	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** Yes



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	June 22, 2021	Inspector:	Emma Duguay
Time:	15:56		
Outfall ID:	LR-OF9		
Outfall Location:	-71.10467 42.83032		
Receiving Waterbody:	Little Brook		
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Cloudy      (Clear, Cloudy)	Approximate Temp:	80 °F      Wind Present: No
Precipitation in the past 3 days:		inches	Sprinkling h
Dry weather inspection form used?	No		
Pipe Flow:	Steady		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully)    No			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	18		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Catch	(Trapezoidal, Parabolic, Other)	Catch
Depth (inches)	0		
Top width (inches)	0		
Bottom width (inches)	0		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open
Structure Condition:	(Excellent, Good, Fair, Poor)		Fair
Trash/Litter present:	Yes		
Yard waste observed:	No		
General Comments:	Catch basins from Park and Ride, and Freedom Auto tie into state catch basin. Then tie into town catch basin, across street additional tie in from across driveway. Then to. Private parking lot (apartment building) catch basin, to OF (other side of fence) that drains downhill too Little Brook. Did not sample, raining.		
Actions Taken:	Whose is it to sample? Are we just interconnection? May need sample in correct weather. Was running.		
Follow-up required:	Yes		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 14:56

**Outfall ID:** LR-OF10

**Outfall Location:** -71.10011 42.84116

**Receiving Waterbody:** Little River

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Flows to woods stone steps down. Little River approximately 460 ft west.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>14:56</u>		
Outfall ID:	<u>LR-OF10</u>		
Outfall Location:	<u>-71.10011 42.84116</u>		
Receiving Waterbody:	<u>Little River</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Riprap</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>32</u>		
Top width (inches)	<u>72</u>		
Bottom width (inches)	<u>72</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Fair</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>Dry. Flows to woods stone steps down.</u>		
	<u>Little River approximately 460 ft west.</u>		
General Comments:	<u>Dry. Flows to woods stone steps down.</u>		<u>Little River approximately 460 ft west.</u>
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 15:06

**Outfall ID:** LR-OF11

**Outfall Location:** -71.10046 42.84197

**Receiving Waterbody:** Little River

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Drains down flat slope to woods. Stormwater runoff from approximately all road. Little River approximately 540 ft west.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 20, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>15:06</u>		
Outfall ID:	<u>LR-OF11</u>		
Outfall Location:	<u>-71.10046 42.84197</u>		
Receiving Waterbody:	<u>Little River</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>Yes</u>
Precipitation in the past 3 days:	<u>                    </u> inches		
Dry weather inspection form used?	<u>No</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Riprap</u>	(Trapezoidal, Parabolic, Other)	<u>Hill</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>36</u>		
Bottom width (inches)	<u>36</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Excellent</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Drains down flat slope to woods. Stormwater runoff from approximately all road. Little River approximately 540 ft west.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 15:22

**Outfall ID:** LR-OF12

**Outfall Location:** -71.10254 42.84316

**Receiving Waterbody:** Little River

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**                                 

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Three catch basins and runoff from Old Rd release at outfall in 6 Old Rd back yard then downhill to Little River.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom?                                 

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	May 20, 2021		Inspector:	Emma Duguay		
Time:	15:22					
Outfall ID:	LR-OF12					
Outfall Location:	-71.10254 42.84316					
Receiving Waterbody:	Little River					
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Clear	(Clear, Cloudy)	Approximate Temp:	80 °F	Wind Present:	Yes
Precipitation in the past 3 days:	_____ inches					
Dry weather inspection form used?	<input checked="" type="checkbox"/> Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) <input checked="" type="checkbox"/> No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)	Flat lawn		
Depth (inches)		0				
Top width (inches)		0				
Bottom width (inches)		0				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		1/4 Full			
Structure Condition:	(Excellent, Good, Fair, Poor)		Fair			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Three catch basins and runoff from Old Rd release at outfall in 6 Old Rd back yard then downhill to Little River.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 06:22

**Outfall ID:** LR-OF13

**Outfall Location:** -71.10392 42.84393

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 50 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:	Odor:	Water Clarity:
None <span style="float: right;">0 /0</span>	None/Natural <span style="float: right;">0 /0</span>	Clear <span style="float: right;">0 /0</span>
Foam <span style="float: right;">0 /3</span>	Musty <span style="float: right;">0 /5</span>	Cloudy <span style="float: right;">0 /5</span>
Staining <span style="float: right;">0 /5</span>	Sewage/septic <span style="float: right;">0 /10</span>	Opaque <span style="float: right;">0 /10</span>
Floating Green Scum <span style="float: right;">0 /8</span>	Petroleum <span style="float: right;">0 /10</span>	
Oil/Film <span style="float: right;">0 /9</span>		
Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span>		
Sewage Solids <span style="float: right;">0 /10</span>		
<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Covered with tree cuttings. Drains to woodland. Wetland ~250 ft northeast

**Potential Sources/ Actions Taken:** \_\_\_\_\_

<b>Samples collected?</b> <u>No</u> <b>By whom?</b> _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Parameters:</th> <th style="width: 50%;">Results:</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> </tbody> </table>	Parameters:	Results:						
Parameters:	Results:								

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	06:22
Outfall ID:	LR-OF13
Outfall Location:	-71.10392 42.84393
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	50 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
HDPE	Circular
18	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
15	Parabolic
Top width (inches)	
96	
Bottom width (inches)	
72	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Covered with tree cuttings. Drains to woodland. Wetland ~250 ft northeast
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 06:34

**Outfall ID:** LR-OF14

**Outfall Location:** -71.09742 42.84443

**Receiving Waterbody:** Little River

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 50 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Pipe sticks out past ground steep hill hard to get to. From one catch basin with bend, to Little River.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	May 24, 2021	Inspector:	Emma Duguay
Time:	06:34		
Outfall ID:	LR-OF14		
Outfall Location:	-71.09742 42.84443		
Receiving Waterbody:	Little River		
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)	Approximate Temp:	50 °F      Wind Present: No
Precipitation in the past 3 days:	_____ inches		
Dry weather inspection form used?	<input checked="" type="checkbox"/> Yes		
Pipe Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully)    No			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	CMP	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12		
Open Drainage-			
Material		Shape	Dropoff to river,
(Concrete, Earthen, Riprap, Other)	Earthen	(Trapezoidal, Parabolic, Other)	15 ft to river
Depth (inches)	240		
Top width (inches)	0		
Bottom width (inches)	0		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	Open	
Structure Condition:	(Excellent, Good, Fair, Poor)	Good	
Trash/Litter present:	No		
Yard waste observed:	No		
General Comments:	Pipe sticks out past ground steep hill hard to get to. From one catch basin with bend, to Little River.		
Actions Taken:			
Follow-up required:	No		

# Dry Weather Outfall Inspection Form

Location Information						
Date:	May 24, 2021		Inspector:	Emma Duguay		
Time:	06:46					
Outfall ID:	LR-OF15					
Outfall Location:	-71.09666 42.84362					
Receiving Waterbody:	Little River					
Photo Taken:	<div><div>Yes</div><div>No</div></div>		Photo ID:	Please see photo log		
Weather	Clear	(Clear, Cloudy)	Approximate Temp:	501 °F	Wind Present:	No
Precipitation in the past 3 days:	No		inches			
Pipe Flow:	Trickle		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Color (if flow is present):						
Inspection Information <i>Select all that are applicable</i>						
<b>Obvious Debris/Pollution:</b>		<b>Odor:</b>		<b>Water Clarity:</b>		
None	0 /0	None/Natural	0 /0	Clear	0 /0	
Foam	1 /3	Musty	0 /5	Cloudy	0 /5	
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10	
Floating Green Scum	0 /8	Petroleum	0 /10			
Oil/Film	0 /9					
Vegetative Mat/Gray Mat	9 /9					
Sewage Solids	0 /10					
<b>TOTAL</b>	<div>15</div>	<b>TOTAL</b>	<div>0</div>	<b>TOTAL</b>	<div>0</div>	
<b>GRAND TOTAL SCORE =</b> <div>15</div>						
Additional Information						
<b>Sediment Condition:</b>	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
<b>Structure Condition:</b>	(Excellent, Good, Fair, Poor)		Good			
<b>Trash/Litter present:</b>	No		<b>Yard waste observed:</b>	No		
<b>General Comments:</b>	Flow tricking out. Pipe flat angel. Flow out to yard downhill to Little River approximately 15 ft northwest. Flow from road to 2 catch basins. Flow from telephone pole past catch 2 and 100ft past catch 1. Flow potentially from yard watering					
<b>Potential Sources/ Actions Taken:</b>						
Samples collected?	Yes		<b>Parameters:</b>	<b>Results:</b>		
By whom?	Emma Duguay		Cod	500		
			Temp	14.8		
Follow-up required:	No					

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	06:46
Outfall ID:	LR-OF15
Outfall Location:	-71.09666 42.84362
Receiving Waterbody:	Little River
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	501 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	Trickle (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	CMP
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Earthen
Shape	
(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	3
Top width (inches)	24
Bottom width (inches)	20
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Flow trickling out. Pipe flat angel. Flow out to yard downhill to Little River approximately 15 ft northwest. Flow from road to 2 catch basins. Flow from telephone pole past catch 2 and 100ft past catch 1. Flow potentially from yard watering
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 07:09

**Outfall ID:** LR-OF16

**Outfall Location:** -71.09457 42.84365

**Receiving Waterbody:** Little River

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 50 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 9

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Standing water in pipe no flow, 2 catch basins. Runoff from road flows in from end of street and a few telephone poles back. Flow out to wet woodland then to Little River 460 ft northwest.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	07:09
Outfall ID:	LR-OF16
Outfall Location:	-71.09457 42.84365
Receiving Waterbody:	Little River
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	50 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	10
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Flat
Depth (inches)	6
Top width (inches)	72
Bottom width (inches)	72
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Standing water in pipe no flow, 2 catch basins. Runoff from road flows in from end of street and a few telephone poles back. Flow out to wet woodland then to Little River 460 ft northwest.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 07:47

**Outfall ID:** LR-OF17

**Outfall Location:** -71.08985 42.84596

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 55 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** Yes **Yard waste observed:** Yes

**General Comments:** No flow. Filled with debris. Neighbor started washing car with runoff into catch basin  
1. 4 catch basins. Out flows through back yards down towards Little River  
approximately 790 ft west.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	07:47
Outfall ID:	LR-OF17
Outfall Location:	-71.08985 42.84596
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	55 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	Yes
Yard waste observed:	Yes
General Comments:	No flow. Filled with debris. Neighbor started washing car with runoff into catch basin 1. 4 catch basins. Out flows through back yards down towards Little River approximately 790 ft west.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 12:52

**Outfall ID:** LR-OF18

**Outfall Location:** -71.08246 42.84531

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** Yes **Yard waste observed:** Yes

**General Comments:** Storm water runoff approximately from all of the road, 7 catch basins. Drains to wetlands wooded. Homeowner washout material in outfall and release area, potentially grout. No flow not sampled.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?			

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	12:52
Outfall ID:	LR-OF18
Outfall Location:	-71.08246 42.84531
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	Yes
Yard waste observed:	Yes
General Comments:	Storm water runoff approximately from all of the road, 7 catch basins. Drains to wetlands wooded. Homeowner washout material in outfall and release area, potentially grout. No flow not sampled.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 09:11

**Outfall ID:** LR-OF19

**Outfall Location:** -71.07836 42.84109

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 9 /9  
 Sewage Solids 0 /10

**TOTAL** 9

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Standing water at outfall from adjacent culvert. Culvert is flowing, source from pond uphill.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	09:11
Outfall ID:	LR-OF19
Outfall Location:	-71.07836 42.84109
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	Yes
Yard waste observed:	No
General Comments:	Standing water at outfall from adjacent culvert. Culvert is flowing, source from pond uphill.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 12:00

**Outfall ID:** LR-OF20

**Outfall Location:** -71.08172 42.83842

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Buried, found location, not pipe. No sample collected.

**Potential Sources/ Actions Taken:** Uncover

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>12:00</u>		
Outfall ID:	<u>LR-OF20</u>		
Outfall Location:	<u>-71.08172 42.83842</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="display: inline-block; border: 1px solid black; border-radius: 50%; padding: 2px 5px; text-align: center;">Yes</div> <u>No</u>	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>CMP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>48</u>		
Bottom width (inches)	<u>24</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Plugged</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Buried, found location, not pipe. No sample collected.</u>		
Actions Taken:	<u>Uncover</u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 12:15

**Outfall ID:** LR-OF21

**Outfall Location:** -71.10062 42.83225

**Receiving Waterbody:** Little River

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** No flow. Catch basin has pipe drain tied in from house number 30. Runoff flow from auto shop and down opposite side street. Discharges to Little River.

**Potential Sources/ Actions Taken:**

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	12:15
Outfall ID:	LR-OF21
Outfall Location:	-71.10062 42.83225
Receiving Waterbody:	Little River
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
RCP	Circular
15	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
48	Slope
Top width (inches)	
0	
Bottom width (inches)	
0	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	No flow. Catch basin has pipe drain tied in from house number30. Runoff flow from auto shop and down opposite side street. Discharges to Little River
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 09:30

**Outfall ID:** LR-OF24

**Outfall Location:** -71.07449 42.84094

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 5 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 5

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 5

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Dry. 2 catch basins. Watershed from approximately next road. Discharges to woods.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	09:30
Outfall ID:	LR-OF24
Outfall Location:	-71.07449 42.84094
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	Yes
Yard waste observed:	No
General Comments:	Dry. 2 catch basins. Watershed from approximately next road. Discharges to woods.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 09:38

**Outfall ID:** LR-OF25

**Outfall Location:** -71.0727 42.84146

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. From 5 catch basins. Out to woods.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	May 24, 2021		Inspector:	Emma Duguay		
Time:	09:38					
Outfall ID:	LR-OF25					
Outfall Location:	-71.0727 42.84146					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Clear	(Clear, Cloudy)	Approximate Temp:	60 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)	Flat		
Depth (inches)		24				
Top width (inches)		24				
Bottom width (inches)		12				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Dry. From 5 catch basins. Out to woods.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 09:53

**Outfall ID:** LR-OF26

**Outfall Location:** -71.07175 42.83922

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Standing water due to long flat pipe. Flows out down riprap to wetland surrounded by lawn. 12 catch basins tied in. Runoff from all curbed road. State catch basin at start of road not tied in.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?	_____		

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	09:53
Outfall ID:	LR-OF26
Outfall Location:	-71.07175 42.83922
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	Yes
Yard waste observed:	No
General Comments:	Standing water due to long flat pipe. Flows out down riprap to wetland surrounded by lawn. 12 catch basins tied in. Runoff from all curbed road. State catch basin at start of road not tied in.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 08:18

**Outfall ID:** LR-OF27

**Outfall Location:** -71.08001 42.83872

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 55 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing; probable source from multiple blocks and debris buildup uphill connections. Discharges through lawn to wooded/wet. Follow connections start from dauntless lane, Greystone Ave, sequoia lane, rustic lane. Went to top of community's connected to outfall, starts blocked and or filled with debris then cleaned. See photos.

**Potential Sources/ Actions Taken:** Seasonal?

Samples collected?	<u>Yes</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Emma Duguay</u>	Cond	750
		Temp	14.8

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 24, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>08:18</u>		
Outfall ID:	<u>LR-OF27</u>		
Outfall Location:	<u>-71.08001 42.83872</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Clear</u> (Clear, Cloudy)	Approximate Temp:	<u>55</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>15</u>		
Top width (inches)	<u>7</u>		
Bottom width (inches)	<u>6</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Fair</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Flowing; probable source from multiple blocks and debris buildup uphill connections. Discharges through lawn to wooded/wet. Follow connections start from dauntless lane, Greystone Ave, sequoia lane, rustic lane. Went to top of community's connected to outfall, starts blocked and or filled with debris then cleaned. See photos.</u>		
Actions Taken:	<u>Seasonal?</u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 06:22

**Outfall ID:** LRT1-OF1

**Outfall Location:** -71.10999 42.82034

**Receiving Waterbody:** Little River

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Outfall discharges to woods from 3 catch basins. Little River approximately 600fo northwest.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	06:22
Outfall ID:	LRT1-OF1
Outfall Location:	-71.10999 42.82034
Receiving Waterbody:	Little River
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	12
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Trapezoidal
Depth (inches)	36
Top width (inches)	48
Bottom width (inches)	36
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Outfall discharges to woods from 3 catch basins. Little River approximately 600fo northwest.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 06:27

**Outfall ID:** LRT1-OF2

**Outfall Location:** -71.10614 42.8186

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** New OF, replaced from water line project. Sand in catch basin and outfall. Hear water in catch basin, no outflow.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	06:27
Outfall ID:	LRT1-OF2
Outfall Location:	-71.10614 42.8186
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
HDPE	Circular
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
36	Parabolic
Top width (inches)	
60	
Bottom width (inches)	
36	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	New OF, replaced from water line project. Sand in catch basin and outfall. Hear water in catch basin, no outflow.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 06:53

**Outfall ID:** LRT1-OF3

**Outfall Location:** -71.10105 42.82079

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear75

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Runoff from approximately house number 10 with 6 catch basins. Drains to wooded wet. Pond across street. Not connected, separate culvert.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	06:53
Outfall ID:	LRT1-OF3
Outfall Location:	-71.10105 42.82079
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
15	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Parabolic	
Depth (inches)	
24	
Top width (inches)	
48	
Bottom width (inches)	
36	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Runoff from approximately house number 10 with 6 catch basins. Drains to wooded wet. Pond across street. Not connected, separate culvert.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 20, 2021 **Inspector:** Emma Duguay

**Time:** 14:16

**Outfall ID:** LRT1-OF4

**Outfall Location:** -71.09961 42.82295

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** Yes

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 5 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 5

**Odor:**

None/Natural 0 /0  
 Musty 5 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 5

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 10

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Poor

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Bottom of outfall pipe rusted out up to land. Discharges into unmarked stream.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	May 20, 2021	Inspector:	Emma Duguay
Time:	14:16		
Outfall ID:	LRT1-OF4		
Outfall Location:	-71.09961 42.82295		
Receiving Waterbody:			
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)	Approximate Temp:	80 °F Wind Present: Yes
Precipitation in the past 3 days:		inches	
Dry weather inspection form used?	No		
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) No			
Type:			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	CMP	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	18		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Earthen	(Trapezoidal, Parabolic, Other)	Trapezoidal
Depth (inches)	6		
Top width (inches)	180		
Bottom width (inches)	120		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	Open	
Structure Condition:	(Excellent, Good, Fair, Poor)	Poor	
Trash/Litter present:	No		
Yard waste observed:	No		
General Comments:	Bottom of outfall pipe rusted out up to land. Discharges into unmarked stream.		
Actions Taken:			
Follow-up required:	No		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 12:27

**Outfall ID:** LRT2-OF2

**Outfall Location:** -71.1129 42.83626

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** No sample collected, partly submerged in wetland. Discharges in wooded wetland with pond and Bryant Brook in vicinity. Stormwater runoff collected from house Number 8 down into 3 catch basins..

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	12:27
Outfall ID:	Lrt2-OF2
Outfall Location:	-71.1129 42.83626
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
CMP	Circular
Dimensions (inches)	12
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Trapezoidal
Depth (inches)	24
Top width (inches)	36
Bottom width (inches)	24
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	No sample collected, partly submerged in wetland. Discharges in wooded wetland with pond and Bryant Brook in vicinity. Stormwater runoff collected from house Number 8 down into 3 catch basins.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay  
**Time:** 11:12  
**Outfall ID:** MB-OF1  
**Outfall Location:** -71.07669 42.82798  
**Receiving Waterbody:** Seaver Brook  
**Photo Taken:** Yes No **Photo ID:** Please see photo log  
**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No  
**Precipitation in the past 3 days:** No inches  
**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)  
**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full  
**Structure Condition:** (Excellent, Good, Fair, Poor) Good  
**Trash/Litter present:** No **Yard waste observed:** Yes  
**General Comments:** Submerged due to block at inlet and outlet. Did not sample. House pipe drains into swale of inlet. Runoff from all of the road. Seaver Brook ~ 250 ft southwest.

#### Potential Sources/ Actions Taken:

Samples collected? <u>No</u>	Parameters:	Results:
By whom? _____		

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>11:12</u>		
Outfall ID:	<u>MB-OF1</u>		
Outfall Location:	<u>-71.07669 42.82798</u>		
Receiving Waterbody:	<u>Seaver Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>75</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                    </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Trickle</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Flat hill</u>
Depth (inches)	<u>96</u>		
Top width (inches)	<u>36</u>		
Bottom width (inches)	<u>36</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>1/4 Full</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>Submerged due to block at inlet and outlet. Did not sample. House pipe drains into swale of inlet. Runoff from all of the road. Seaver Brook ~ 250 ft southwest.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay  
**Time:** 10:54  
**Outfall ID:** MB-Off2  
**Outfall Location:** -71.07577 42.82831  
**Receiving Waterbody:** Seaver Brook  
**Photo Taken:** Yes No **Photo ID:** Please see photo log  
**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No  
**Precipitation in the past 3 days:** No inches  
**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Color (if flow is present):** Clear18

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full  
**Structure Condition:** (Excellent, Good, Fair, Poor) Good  
**Trash/Litter present:** Yes **Yard waste observed:** Yes  
**General Comments:** Blocked flow submerged water, did not sample. Rd curbed. Stormwater runoff from all Kathrine Way and 61pollard Rd down. 4 catch basins from start of Rd down to Suzanne. Seaver Brook ~500 ft southwest.

#### Potential Sources/ Actions Taken:

Samples collected? <u>No</u> By whom? _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Parameters:</th> <th style="text-align: left;">Results:</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Parameters:	Results:						
Parameters:	Results:								

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	10:54
Outfall ID:	MB-OF2
Outfall Location:	-71.07577 42.82831
Receiving Waterbody:	Seaver Brook
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	Yes
Yard waste observed:	Yes
General Comments:	Blocked flow submerged water, did not sample. Rd curbed. Stormwater runoff from all Kathrine Way and 61pollard Rd down. 4 catch basins from start of Rd down to Suzanne. Seaver Brook ~500 ft southwest.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

Date: June 22, 2021 Inspector: Emma Duguay

Time: 08:56

Outfall ID: MB-OF4

Outfall Location: -71.07261 42.8228

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 75 °F Wind Present: No

Precipitation in the past 3 days: No \_\_\_\_\_ inches

Pipe Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Color (if flow is present): \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

TOTAL 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

TOTAL 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

TOTAL 0

GRAND TOTAL SCORE = 0

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

Structure Condition: (Excellent, Good, Fair, Poor) Good

Trash/Litter present: No Yard waste observed: No

General Comments: Stormwater runoff from property number 3 to 2 catch basins in circle. Discharge to wet wooded area with Seaver Brook starting approximately 620ft northwest. No flow

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>08:56</u>		
Outfall ID:	<u>MB-OF4</u>		
Outfall Location:	<u>-71.07261 42.8228</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>75</u> °F Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Flat</u>
Depth (inches)	<u>48</u>		
Top width (inches)	<u>60</u>		
Bottom width (inches)	<u>12</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Good</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Stormwater runoff from property number 3 to 2 catch basins in circle. Discharge to wet wooded area with Seaver Brook starting approximately 620ft northwest. No flow</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 09:59

**Outfall ID:** SB-OF1

**Outfall Location:** -71.06758 42.81166

**Receiving Waterbody:** Snows Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 85 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Tannin

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	1 /3	Musty	0 /5	Cloudy	0 /5
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	15	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 15

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing from wetland stream across street. No sample collected, not from runoff. 4 catch basins tie into a manhole then to outfall. Discharge on riprap to Snows Brook.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>09:59</u>		
Outfall ID:	<u>SB-OF1</u>		
Outfall Location:	<u>-71.06758 42.81166</u>		
Receiving Waterbody:	<u>Snows Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>85</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                    </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Steady</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>18</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>60</u>		
Top width (inches)	<u>60</u>		
Bottom width (inches)	<u>36</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Flowing from wetland stream across street. No sample collected, not from runoff. 4 catch basins tie into a manhole then to outfall. Discharge on riprap to Snows Brook.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

# Dry Weather Outfall Inspection Form

Location Information			
Date:	June 8, 2021	Inspector:	Emma Duguay
Time:	09:39		
Outfall ID:	SB-OF2		
Outfall Location:	-71.06669 42.81178		
Receiving Waterbody:	Snows Brook		
Photo Taken:	Yes	No	Photo ID: Please see photo log
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp: 85 °F Wind Present: No
Precipitation in the past 3 days:	No	_____ inches	
Pipe Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Color (if flow is present):	Clear		
Inspection Information <i>Select all that are applicable</i>			
Obvious Debris/Pollution:	Odor:	Water Clarity:	
None 0 /0	None/Natural 0 /0	Clear 0 /0	
Foam 0 /3	Musty 0 /5	Cloudy 0 /5	
Staining 0 /5	Sewage/septic 0 /10	Opaque 0 /10	
Floating Green Scum 0 /8	Petroleum 0 /10		
Oil/Film 0 /9			
Vegetative Mat/Gray Mat 9 /9			
Sewage Solids 0 /10			
<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">9</span>	<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	<b>TOTAL</b> <span style="border: 1px solid black; padding: 2px 10px;">0</span>	
<b>GRAND TOTAL SCORE =</b> <span style="border: 1px solid black; padding: 2px 10px;">9</span>			
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open
Structure Condition:	(Excellent, Good, Fair, Poor)		Good
Trash/Litter present:	No	Yard waste observed:	No
General Comments:	Outfall fully submerged due to block further down discharge path before Snows Brook. Flow backed up to first catch basin. No sample collected, not actively flowing.		
<b>Potential Sources/ Actions Taken:</b>			
Samples collected?	No	Parameters:	Results:
By whom?			
Follow-up required:	No		

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>09:39</u>		
Outfall ID:	<u>SB-OF2</u>		
Outfall Location:	<u>-71.06669 42.81178</u>		
Receiving Waterbody:	<u>Snows Brook</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>85</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                    </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Fully</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>48</u>		
Top width (inches)	<u>96</u>		
Bottom width (inches)	<u>84</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Outfall fully submerged due to block further down discharge path before Snows Brook. Flow backed up to first catch basin. No sample collected, not actively flowing.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 10:16

**Outfall ID:** SB-OF3N

**Outfall Location:** -71.06402 42.81539

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 90 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Outlet not outfall. Designed for wetland overflow to cross under the street.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	10:16
Outfall ID:	SB-OF3N
Outfall Location:	-71.06402 42.81539
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	90 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Riprap	Parabolic
Depth (inches)	
24	
Top width (inches)	
192	
Bottom width (inches)	
72	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Outlet not outfall. Designed for wetland overflow to cross under the street.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 10:59

**Outfall ID:** SB-OF3R

**Outfall Location:** -71.08157 42.83461

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 90 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	1 /3	Musty	0 /5	Cloudy	0 /5
Staining	5 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	6	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 6

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Was submerged on arrival due to block. Cleared block. Hear water falling down in from drop off above. Soapy foam suds like. Collected sample from drop off to avoid stagnate submerged OF water.

**Potential Sources/ Actions Taken:** Checked all catch basins, potential sources: house 17, 15, or 13 or from opposite end of street catch basins submerged to flowing potentially due to flat angle. See photos additional comments.

Samples collected? By whom?	<u>Yes</u> <u>Emma Duguay</u>	Parameters:	Results:
		Cond	760
		Temp	20.4

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 8, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>10:59</u>		
Outfall ID:	<u>SB-OF3R</u>		
Outfall Location:	<u>-71.08157 42.83461</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>90</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Rirrap earthen mix</u>	(Trapezoidal, Parabolic, Other)	<u>Flat parabolic</u>
Depth (inches)	<u>33</u>		
Top width (inches)	<u>60</u>		
Bottom width (inches)	<u>36</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Excellent</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Was submerged on arrival due to block. Cleared block. Hear water falling down in from drop off above. Soapy foam suds like in standing water. Collected sample from drop off to avoid stagnate submerged OF water.</u>		
Actions Taken:	<u>Checked all catch basins, potential sources: house 17, 15, or 13 or from opposite end of street catch basins submerged to flowing potentially due to flat angle. See photos additional comments.</u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 09:41

**Outfall ID:** SB-OF4

**Outfall Location:** -71.06658 42.83261

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** More than ½ submerged. Full blocked, no flow. No sample collected.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	09:41
Outfall ID:	SB-OF4
Outfall Location:	-71.06658 42.83261
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	More than ½ submerged. Full blocked, no flow. No sample collected.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 09:56

**Outfall ID:** SB-OF5

**Outfall Location:** -71.06589 42.83522

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Tannin

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 1 /3  
 Staining 5 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 9 /9  
 Sewage Solids 0 /10

**TOTAL** 15

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 15

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing from body of water upland. Not sampled.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

### Location Information

Date: June 22, 2021 Inspector: Emma Duguay

Time: 09:56

Outfall ID: SB-OF5

Outfall Location: -71.06589 42.83522

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 75 °F Wind Present: No

Precipitation in the past 3 days: \_\_\_\_\_ inches

Dry weather inspection form used? Yes

Pipe Flow: Steady (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

### Outfall Description *Select all that are applicable, fill in as necessary*

Submerged in water? (No, partially, fully) No

#### Type:

Open Pipe-  
Material (RCP, CMP, PVC, HDPE, Steel, Other) RCP Shape (Circular, Elliptical, Box, Other) Circular  
Dimensions (inches) 30

Open Drainage-  
Material (Concrete, Earthen, Riprap, Other) Earthen Shape (Trapezoidal, Parabolic, Other) Parabolic  
Depth (inches) 72  
Top width (inches) 72  
Bottom width (inches) 60

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

Structure Condition: (Excellent, Good, Fair, Poor) Good

Trash/Litter present: No

Yard waste observed: No

General Comments: Flowing from body of water upland. Not sampled.

Actions Taken: \_\_\_\_\_

Follow-up required: No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 10:25

**Outfall ID:** SB-OF6

**Outfall Location:** -71.0648 42.83741

**Receiving Waterbody:** Wetland

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No          inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**         

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** Yes

**General Comments:** Dry. Next to SB-OF6 is outlet clogged and flowing water with buildup of iron. Believe potential source is from utility buildup drain. No sample. To wooded wetland.

**Potential Sources/ Actions Taken:** Follow-up required by utility service

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? <u>        </u>		

Follow-up required: Yes

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>10:25</u>		
Outfall ID:	<u>SB-OF6</u>		
Outfall Location:	<u>-71.0648 42.83741</u>		
Receiving Waterbody:	<u>Wetland</u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>75</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u>                </u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Hill flat</u>
Depth (inches)	<u>24</u>		
Top width (inches)	<u>24</u>		
Bottom width (inches)	<u>24</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>1/2 Full</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Good</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>Dry. Next to SB-OF6 is outlet clogged and flowing water with buildup of iron. Believe potential source is from utility buildup drain. No sample. To wooded wetland.</u>		
Actions Taken:	<u>Follow-up required by utility service</u>		
Follow-up required:	<u>Yes</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 10:13

**Outfall ID:** SB-OF7

**Outfall Location:** -71.0643 42.83771

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 1/2 full leaf debris. No flow. Stormwater runoff from circle. Flows to wooded wet area.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	10:13
Outfall ID:	Sb-of7
Outfall Location:	-71.0643 42.83771
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/2 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	1/2 full leaf debris. No flow. Stormwater runoff from circle. Flows to wooded wet area.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 08:45

**Outfall ID:** SB-OF11

**Outfall Location:** -71.07515 42.82263

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Dry. Runoff from corner at top of hill down to 1 catch basin.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	08:45					
Outfall ID:	SB-OF11					
Outfall Location:	-71.07515 42.82263					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No		Photo ID:	Please see photo log		
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	75 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)		Circular	
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)		Flat	
Depth (inches)		48				
Top width (inches)		60				
Bottom width (inches)		12				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Fair			
Trash/Litter present:	Yes					
Yard waste observed:	No					
General Comments:	Dry. Runoff from corner at top of hill down to 1 catch basin.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 08:41

**Outfall ID:** SB-OF2

**Outfall Location:** -71.0743 42.82178

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
 Foam 0 /3  
 Staining 0 /5  
 Floating Green Scum 0 /8  
 Oil/Film 0 /9  
 Vegetative Mat/Gray Mat 0 /9  
 Sewage Solids 0 /10

**TOTAL** 0

**Odor:**

None/Natural 0 /0  
 Musty 0 /5  
 Sewage/septic 0 /10  
 Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
 Cloudy 0 /5  
 Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** Yes

**General Comments:** Dry. Runoff from property 45 to. Discharges into woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	08:41
Outfall ID:	SB-OF12
Outfall Location:	-71.0743 42.82178
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
12	Circular
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
36	Flat
Top width (inches)	
36	
Bottom width (inches)	
36	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	Yes
General Comments:	Dry. Runoff from property 45 to. Discharges into woods.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

Date: June 22, 2021 Inspector: Emma Duguay

Time: 07:37

Outfall ID: SBT1-OF4

Outfall Location: -71.08683 42.82016

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 75 °F Wind Present: No

Precipitation in the past 3 days: No \_\_\_\_\_ inches

Pipe Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Color (if flow is present): Clear

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

TOTAL 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

TOTAL 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

TOTAL 0

GRAND TOTAL SCORE = 0

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

Structure Condition: (Excellent, Good, Fair, Poor) Excellent

Trash/Litter present: No Yard waste observed: No

General Comments: Not flowing. Stormwater runoff from Hoyt Farm Rd down. Discharges into woods

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	07:37					
Outfall ID:	SBT1-OF4					
Outfall Location:	-71.08683 42.82016					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	75 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		HDPE	(Circular, Elliptical, Box, Other)		Circular	
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)		Flat	
Depth (inches)		60				
Top width (inches)		0				
Bottom width (inches)		0				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Not flowing. Stormwater runoff from Hoyt Farm Rd down. Discharges into woods.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 07:49

**Outfall ID:** SBT1-OF5

**Outfall Location:** -71.08238 42.81888

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Not flowing. Discharges to woods. Stormwater runoff from road and 2 catch basins.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	07:49
Outfall ID:	SBT1-OF5
Outfall Location:	-71.08238 42.81888
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
HDPE	Circular
Dimensions (inches)	
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Hill
Depth (inches)	
48	
Top width (inches)	
48	
Bottom width (inches)	
10	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Not flowing. Discharges to woods. Stormwater runoff from road and 2 catch basins.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay  
**Time:** 08:33  
**Outfall ID:** SBT2-OF1  
**Outfall Location:** -71.08033 42.81735  
**Receiving Waterbody:** Snows Brook  
**Photo Taken:** Yes No **Photo ID:** Please see photo log  
**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 750 °F **Wind Present:** No  
**Precipitation in the past 3 days:** No inches  
**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)  
**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)  
**Color (if flow is present):**

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged  
**Structure Condition:** (Excellent, Good, Fair, Poor) Good  
**Trash/Litter present:** Yes **Yard waste observed:** Yes  
**General Comments:** Could not find OF. Need follow up. Potentially goes to septic? Problematic home owner. Water flowing into first catch from low numbers side of street. Could not find source. Did not sample. 11 catch basins tied in.

#### Potential Sources/ Actions Taken:

Samples collected? <u>No</u> By whom? <u></u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Parameters:</th> <th style="text-align: left;">Results:</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Parameters:	Results:						
Parameters:	Results:								

Follow-up required: Yes

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	08:33
Outfall ID:	SBT2-OF1
Outfall Location:	-71.08033 42.81735
Receiving Waterbody:	Snows Brook
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	750 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	Steady (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)
Structure Condition:	(Excellent, Good, Fair, Poor)
Trash/Litter present:	Yes
Yard waste observed:	Yes
General Comments:	Could not find OF. Need follow up. Potentially goes to septic? Problematic home owner. Water flowing into first catch from low numbers side of street. Could not find source. Did not sample. 11 catch basins tied in.
Actions Taken:	
Follow-up required:	Yes

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 10:26

**Outfall ID:** SBT3-OF1

**Outfall Location:** -71.07021 42.8172

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 90 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Discharges into woods. Stormwater runoff from top hill down, with about 5 catch basins. Stream approximately 400ft west.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 8, 2021		Inspector:	Emma Duguay		
Time:	10:26					
Outfall ID:	SBT3-OF1					
Outfall Location:	-71.07021 42.8172					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	90 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		HDPE	(Circular, Elliptical, Box, Other)		Circular	
Dimensions (inches)		15				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)		Parabolic	
Depth (inches)		24				
Top width (inches)		16				
Bottom width (inches)		3				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Dry. Discharges into woods. Stormwater runoff from top hill down, with about 5 catch basins. Stream approximately 400ft west.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 11:52

**Outfall ID:** SBT3-OF2

**Outfall Location:** -71.06641 42.81875

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Tannin

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Wetland pond/stream outlet/culvert. Continuously flowing. Not from stormwater runoff f. No sample collected, Not an outfall.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?		<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>June 22, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>11:52</u>		
Outfall ID:	<u>SBT3-OF2</u>		
Outfall Location:	<u>-71.06641 42.81875</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">Yes</div> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>80</u> °F Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Steady</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>24</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>36</u>		
Bottom width (inches)	<u>36</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>1/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Good</u>	
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>Wetland pond/stream outlet/culvert. Continuously flowing. Not from stormwater runoff f. No sample collected, Not an outfall.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 11:35

**Outfall ID:** SBT3-OF3

**Outfall Location:** -71.06662 42.81998

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Outfall covered by natural debris upon arrival. Not flowing. Stormwater runoff from bends in both direction of road to catch basin. Discharges to woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	11:35
Outfall ID:	SBT3-OF3
Outfall Location:	-71.06662 42.81998
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
CMP	Circular
Dimensions (inches)	
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Earthen	Slope
Depth (inches)	
36	
Top width (inches)	
12	
Bottom width (inches)	
11	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Plugged
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Outfall covered by natural debris upon arrival. Not flowing. Stormwater runoff from bends in both direction of road to catch basin. Discharges to woods.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 11:24

**Outfall ID:** SBT3-OF4

**Outfall Location:** -71.06607 42.82414

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** No flow. Releases into woods. Stormwater runoff from Timberlane and Poplar

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

### Location Information

Date: June 22, 2021 Inspector: Emma Duguay

Time: 11:24

Outfall ID: SBT3-OF4

Outfall Location: -71.06607 42.82414

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 75 °F Wind Present: No

Precipitation in the past 3 days: \_\_\_\_\_ inches

Dry weather inspection form used? Yes

Pipe Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

### Outfall Description *Select all that are applicable, fill in as necessary*

Submerged in water? (No, partially, fully) No

#### Type:

Open Pipe-  
Material (RCP, CMP, PVC, HDPE, Steel, Other) RCP Shape (Circular, Elliptical, Box, Other) Circular  
Dimensions (inches) 12

Open Drainage-  
Material (Concrete, Earthen, Riprap, Other) Riprap Shape (Trapezoidal, Parabolic, Other) Flat, shallow swale  
Depth (inches) 36  
Top width (inches) 60  
Bottom width (inches) 48

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

Structure Condition: (Excellent, Good, Fair, Poor) Good

Trash/Litter present: No

Yard waste observed: No

General Comments: No flow. Releases into woods. Stormwater runoff from Timberlane and Poplar.

Actions Taken: \_\_\_\_\_

Follow-up required: No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 12:48

**Outfall ID:** SBT3-OF5

**Outfall Location:** -71.06557 42.82707

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 90 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** No **Yard waste observed:** Yes

**General Comments:** Submerged, standing water from not draining. Not flowing, did not sample. Discharges into woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	12:48
Outfall ID:	SBT3-OF5
Outfall Location:	-71.06557 42.82707
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	90 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Fully	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
CMP	Circular
Dimensions (inches)	12
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Parabolic	Parabolic
Depth (inches)	36
Top width (inches)	48
Bottom width (inches)	24
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Fair
Trash/Litter present:	No
Yard waste observed:	Yes
General Comments:	Submerged, standing water from not draining. Not flowing, did not sample. Discharges into woods.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 8, 2021 **Inspector:** Emma Duguay

**Time:** 12:39

**Outfall ID:** SBT3-OF8

**Outfall Location:** -71.07054 42.83011

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 90 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Standing water unable to drain due to buildup/block. Not flowing, did not sample. Discharges to woods.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 8, 2021
Inspector:	Emma Duguay
Time:	12:39
Outfall ID:	SBT3-OF8
Outfall Location:	-71.07054 42.83011
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	90 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) Partially	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Standing water unable to drain due to buildup/block. Not flowing, did not sample. Discharges to woods.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 16:17

**Outfall ID:** SEA-i1

**Outfall Location:** -71.09551 42.8388

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 80 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches Sprinkling

**Pipe Flow:** Trickle (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	/0	None/Natural	/0	Clear	/0
Foam	/3	Musty	/5	Cloudy	/5
Staining	/5	Sewage/septic	/10	Opaque	/10
Floating Green Scum	/8	Petroleum	/10		
Oil/Film	/9				
Vegetative Mat/Gray Mat	/9				
Sewage Solids	/10				
<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>	<b>TOTAL</b>	<input type="text"/>

**GRAND TOTAL SCORE =** \_\_\_\_\_

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** 15" HDPE out, and 12", 8" in to interconnection. Stormwater directed from Main St, down Duston Ave, picking up additional storm water, discharged to surface water which wraps around building, then back underground to cross Main St to tree line.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	_____	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	16:17
Outfall ID:	SEA-i1
Outfall Location:	-71.09551 42.8388
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	80 °F
Wind Present:	No
Precipitation in the past 3 days:	inches Sprinkling
Dry weather inspection form used?	No
Pipe Flow:	Trickle (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	15
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Catch basin
Shape	
(Trapezoidal, Parabolic, Other)	Catch basin
Depth (inches)	0
Top width (inches)	0
Bottom width (inches)	0
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	15" HDPE out, and 12", 8" in to interconnection. Stormwater directed from Main St, down Duston Ave, picking up additional storm water, discharged to surface water which wraps around building, then back underground to cross Main St to tree line.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 10:36

**Outfall ID:** SEA-OF1

**Outfall Location:** -71.09304 42.8356

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Discharges across yard to woods. Surface water from approximately corner street down to 2 catch basins.

#### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	10:36
Outfall ID:	SEA-OF1
Outfall Location:	-71.09304 42.8356
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	10
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Riprap
Shape	
(Trapezoidal, Parabolic, Other)	Trapezoidal
Depth (inches)	12
Top width (inches)	36
Bottom width (inches)	12
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Dry. Discharges across yard to woods. Surface water from approximately corner street down to 2 catch basins.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 11:14

**Outfall ID:** SEA-OF2

**Outfall Location:** -71.09248 42.83966

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

**Obvious Debris/Pollution:**

None 0 /0  
Foam 1 /3  
Staining 5 /5  
Floating Green Scum 8 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 9 /9  
Sewage Solids 0 /10

**TOTAL** 23

**Odor:**

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

**Water Clarity:**

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 23

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Fair

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** SEA-OF2 flow is from seasonal stream through SEA-OF3 then connecting into SEA-OF2 and discharging into a wet wooded habitat. Stormwater runoff from Duston Ave to 2 catch basins then connect with SEA-OF3 to outfall. Catch basins are dry, no sample collected. Neighbor has free range chickens.

**Potential Sources/ Actions Taken:**

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?			

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 24, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>11:14</u>		
Outfall ID:	<u>SEA-OF2</u>		
Outfall Location:	<u>-71.09248 42.83966</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>60</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>Steady</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	<u>None</u>		(None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Parabolic</u>
Depth (inches)	<u>24</u>		
Top width (inches)	<u>60</u>		
Bottom width (inches)	<u>48</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		<u>Open</u>
Structure Condition:	(Excellent, Good, Fair, Poor)		<u>Fair</u>
Trash/Litter present:	<u>No</u>		
Yard waste observed:	<u>No</u>		
General Comments:	<u>SEA-OF2 flow is from seasonal stream through SEA-OF3 then connecting into SEA-OF2 and discharging into a wet wooded habitat. Stormwater runoff from Duston Ave to 2 catch basins then connect with SEA-OF3 to outfall. Catch basins are dry, no sample collected. Neighbor has free range chickens.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 10:50

**Outfall ID:** SEA-OF3

**Outfall Location:** -71.08972 42.83896

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Clear (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Not an outfall. Stream inlet to catch basin, then underground detention pond, then down to SEA-OF2.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	10:50
Outfall ID:	SEA-OF3
Outfall Location:	-71.08972 42.83896
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Clear (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
HDPE	Circular
0	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
0	Na
Top width (inches)	
0	
Bottom width (inches)	
0	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Not an outfall. Stream inlet to catch basin, then underground detention pond, then down to SEA-OF2.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 12:03

**Outfall ID:** SEA-OF4

**Outfall Location:** -71.08702 42.8313

**Receiving Waterbody:** Seaver Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 6,0 °F **Wind Present:** No  
12

**Precipitation in the past 3 days:** No          inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**         

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** Yes **Yard waste observed:** No

**General Comments:** Dry. Curbed road. Stormwater runoff from approximately 10-17 Wild Brook Rd. Releases into wet wooded area then Seaver Brook approximately 90ft east.

### Potential Sources/ Actions Taken:

Samples collected?	<u>No</u>	Parameters:	Results:
By whom?	<u>        </u>		

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information			
<b>Date:</b>	<u>May 24, 2021</u>	<b>Inspector:</b>	<u>Emma Duguay</u>
<b>Time:</b>	<u>12:03</u>		
<b>Outfall ID:</b>	<u>SEA-OF4</u>		
<b>Outfall Location:</b>	<u>-71.08702 42.8313</u>		
<b>Receiving Waterbody:</b>	<u>Seaver Brook</u>		
<b>Photo Taken:</b>	<u>Yes</u> No	<b>Photo ID:</b>	<u>Please see photo log</u>
<b>Weather</b>	<u>Cloudy</u> (Clear, Cloudy)	<b>Approximate Temp:</b>	<u>6,0</u> °F <b>Wind Present:</b> <u>No</u>
			<u>12</u>
<b>Precipitation in the past 3 days:</b>	<u>                </u> inches		
<b>Dry weather inspection form used?</b>	<u>Yes</u>		
<b>Pipe Flow:</b>	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
<b>Seepage Flow:</b>	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
<b>Submerged in water? (No, partially, fully)</b> <u>No</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>RCP</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>12</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Flat</u>
Depth (inches)	<u>36</u>		
Top width (inches)	<u>60</u>		
Bottom width (inches)	<u>60</u>		
Additional Information			
<b>Sediment Condition:</b>	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>Open</u>	
<b>Structure Condition:</b>	(Excellent, Good, Fair, Poor)	<u>Good</u>	
<b>Trash/Litter present:</b>	<u>Yes</u>		
<b>Yard waste observed:</b>	<u>No</u>		
<b>General Comments:</b>	<u>Dry. Curbed road. Stormwater runoff from approximately 10-17 Wild Brook Rd. Releases into wet wooded area then Seaver Brook approximately 90ft east.</u>		
<b>Actions Taken:</b>	<u></u>		
<b>Follow-up required:</b>	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 11:33

**Outfall ID:** SEA-OF5

**Outfall Location:** -71.09005 42.82994

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** Steady (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	9 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	9	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 9

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Flowing. Flows to wetland, eventually long way down to Seabrook. Headwall damaged pipe fine. Catch basin 2 house pipe is tied in, and not flowing at time of sample. Catch basins just slightly submerged. Flows from top hill corner down 4 catch basins total

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>Yes</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	<u>Emma Duguay</u>	Cond	<u>540</u>
		Temp	<u>14.5</u>

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	11:33
Outfall ID:	SEA-OF5
Outfall Location:	-71.09005 42.82994
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	No
Pipe Flow:	Steady (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	RCP
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	12
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Earthen
Shape	
(Trapezoidal, Parabolic, Other)	Flat
Depth (inches)	36
Top width (inches)	72
Bottom width (inches)	62
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Flowing. Flows to wetland, eventually long way down to Seabrook. Headwall damaged pipe fine. Catch basin 2 house pipe is tied in, and not flowing at time of sample. Catch basins just slightly submerged. Flows from top hill corner down 4 catch basins total
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 12:20

**Outfall ID:** SEA-OF6

**Outfall Location:** -71.08718 42.82918

**Receiving Waterbody:** Seaver Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No          inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**         

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Covered with leaves. Surface runoff from approximately 16/17 Congressional Ave to 2 catch basins and out to Seaver Brook

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom?         

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information			
Date:	May 24, 2021	Inspector:	Emma Duguay
Time:	12:20		
Outfall ID:	SEA-OF6		
Outfall Location:	-71.08718 42.82918		
Receiving Waterbody:	Seaver Brook		
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)	Approximate Temp:	60 °F Wind Present: No
Precipitation in the past 3 days:	_____ inches		
Dry weather inspection form used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Pipe Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	None	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <input checked="" type="checkbox"/> No			
Type:			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE	(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	15		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	Earthen	(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	30		
Top width (inches)	36		
Bottom width (inches)	6		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	Open	
Structure Condition:	(Excellent, Good, Fair, Poor)	Excellent	
Trash/Litter present:	No		
Yard waste observed:	No		
General Comments:	Dry. Covered with leaves. Surface runoff from approximately 16/17 Congressional Ave to 2 catch basins and out to Seaver Brook.		
Actions Taken:			
Follow-up required:	No		

## Dry Weather Outfall Inspection Form

### Location Information

Date: May 24, 2021 Inspector: Emma Duguay

Time: 13:01

Outfall ID: SEA-OF7

Outfall Location: -71.08857 42.82774

Receiving Waterbody: \_\_\_\_\_

Photo Taken: Yes No Photo ID: Please see photo log

Weather Cloudy (Clear, Cloudy) Approximate Temp: 60 °F Wind Present: No

Precipitation in the past 3 days: No \_\_\_\_\_ inches

Pipe Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Seepage Flow: None (None, Trickle, Steady, ¼ pipe flow or more)

Color (if flow is present): \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

TOTAL 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

TOTAL 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

TOTAL 0

GRAND TOTAL SCORE = 0

### Additional Information

Sediment Condition: (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

Structure Condition: (Excellent, Good, Fair, Poor) Excellent

Trash/Litter present: No Yard waste observed: No

General Comments: Dry. Discharges to woods. From 2 catch basins.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	13:01
Outfall ID:	SEA-OF7
Outfall Location:	-71.08857 42.82774
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE
Shape	
(Circular, Elliptical, Box, Other)	Circular
Dimensions (inches)	15
Open Drainage-	
Material	
(Concrete, Earthen, Riprap, Other)	Riprap
Shape	
(Trapezoidal, Parabolic, Other)	Parabolic
Depth (inches)	36
Top width (inches)	36
Bottom width (inches)	12
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Dry. Discharges to woods. From 2 catch basins.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 12:44

**Outfall ID:** SEA-OF8

**Outfall Location:** -71.09072 42.82739

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** Clear

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None 0 /0  
Foam 0 /3  
Staining 0 /5  
Floating Green Scum 0 /8  
Oil/Film 0 /9  
Vegetative Mat/Gray Mat 0 /9  
Sewage Solids 0 /10

**TOTAL** 0

#### Odor:

None/Natural 0 /0  
Musty 0 /5  
Sewage/septic 0 /10  
Petroleum 0 /10

**TOTAL** 0

#### Water Clarity:

Clear 0 /0  
Cloudy 0 /5  
Opaque 0 /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** Yes **Yard waste observed:** Yes

**General Comments:** Submerged from yard debris dumping. No flow out. Not sampled. Runoff from Main St mostly and Forest St. Adjacent property house draining to wetland.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No



## Storm Drain Outfall Characteristic Form

Location Information			
Date:	<u>May 24, 2021</u>	Inspector:	<u>Emma Duguay</u>
Time:	<u>12:44</u>		
Outfall ID:	<u>SEA-OF</u>		
Outfall Location:	<u>-71.09072 42.82739</u>		
Receiving Waterbody:	<u></u>		
Photo Taken:	<u>Yes</u> No	Photo ID:	<u>Please see photo log</u>
Weather	<u>Cloudy</u> (Clear, Cloudy)	Approximate Temp:	<u>60</u> °F      Wind Present: <u>No</u>
Precipitation in the past 3 days:	<u></u> inches		
Dry weather inspection form used?	<u>Yes</u>		
Pipe Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Seepage Flow:	<u>None</u>	(None, Trickle, Steady, ¼ pipe flow or more)	
Outfall Description <i>Select all that are applicable, fill in as necessary</i>			
Submerged in water? (No, partially, fully) <u>Partially</u>			
<b>Type:</b>			
Open Pipe-			
Material		Shape	
(RCP, CMP, PVC, HDPE, Steel, Other)	<u>HDPE</u>	(Circular, Elliptical, Box, Other)	<u>Circular</u>
Dimensions (inches)	<u>15</u>		
Open Drainage-			
Material		Shape	
(Concrete, Earthen, Riprap, Other)	<u>Earthen</u>	(Trapezoidal, Parabolic, Other)	<u>Trapezoidal</u>
Depth (inches)	<u>6</u>		
Top width (inches)	<u>36</u>		
Bottom width (inches)	<u>30</u>		
Additional Information			
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)	<u>3/4 Full</u>	
Structure Condition:	(Excellent, Good, Fair, Poor)	<u>Good</u>	
Trash/Litter present:	<u>Yes</u>		
Yard waste observed:	<u>Yes</u>		
General Comments:	<u>Submerged from yard debris dumping. No flow out. Not sampled. Runoff from Main St mostly and Forest St. Adjacent property house draining to wetland.</u>		
Actions Taken:	<u></u>		
Follow-up required:	<u>No</u>		

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 09:10

**Outfall ID:** SEA-OF9

**Outfall Location:** 75 -71.08596 42.82732

**Receiving Waterbody:** Seaver Brook

**Photo Taken:** Yes No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No        inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):**       

### Inspection Information *Select all that are applicable*

<b>Obvious Debris/Pollution:</b> None <span style="float: right;">0 /0</span> Foam <span style="float: right;">0 /3</span> Staining <span style="float: right;">0 /5</span> Floating Green Scum <span style="float: right;">0 /8</span> Oil/Film <span style="float: right;">0 /9</span> Vegetative Mat/Gray Mat <span style="float: right;">0 /9</span> Sewage Solids <span style="float: right;">0 /10</span> <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Odor:</b> None/Natural <span style="float: right;">0 /0</span> Musty <span style="float: right;">0 /5</span> Sewage/septic <span style="float: right;">0 /10</span> Petroleum <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>	<b>Water Clarity:</b> Clear <span style="float: right;">0 /0</span> Cloudy <span style="float: right;">0 /5</span> Opaque <span style="float: right;">0 /10</span>  <b>TOTAL</b> <span style="float: right; border: 1px solid black; padding: 2px 10px;">0</span>
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**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** Yes

**General Comments:** Dry, more than half full with sand. Surface water runoff from circle, 2 catch basins then outfall. Discharges to woods, Seaver Brook approximately 150ft southwest.

**Potential Sources/ Actions Taken:**       

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? <u>      </u>		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	09:10
Outfall ID:	SEA-OF9
Outfall Location:	75 -71.08596 42.82732
Receiving Waterbody:	Seaver Brook
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	_____ inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
RCP	Circular
15	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
48	Flat, hill
Top width (inches)	
0	
Bottom width (inches)	
0	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 3/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	Yes
General Comments:	Dry, more than half full with sand. Surface water runoff from circle, 2 catch basins then outfall. Discharges to woods, Seaver Brook approximately 150ft southwest.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** May 24, 2021 **Inspector:** Emma Duguay

**Time:** 13:17

**Outfall ID:** SEA-OF10

**Outfall Location:** -71.09006 42.82455

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 60 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

Obvious Debris/Pollution:		Odor:		Water Clarity:	
None	0 /0	None/Natural	0 /0	Clear	0 /0
Foam	0 /3	Musty	0 /5	Cloudy	0 /5
Staining	0 /5	Sewage/septic	0 /10	Opaque	0 /10
Floating Green Scum	0 /8	Petroleum	0 /10		
Oil/Film	0 /9				
Vegetative Mat/Gray Mat	0 /9				
Sewage Solids	0 /10				
<b>TOTAL</b>	0	<b>TOTAL</b>	0	<b>TOTAL</b>	0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Some leaf debris. Discharges to woods. Stormwater runoff from approximately 9-18 Forrest St, and 10 Kingshaw Ave.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	May 24, 2021
Inspector:	Emma Duguay
Time:	13:17
Outfall ID:	SEA-OF10
Outfall Location:	-71.09006 42.82455
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	60 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
Top width (inches)	
Bottom width (inches)	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) 1/4 Full
Structure Condition:	(Excellent, Good, Fair, Poor) Good
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Dry. Some leaf debris. Discharges to woods. Stormwater runoff from approximately 9-18 Forrest St, and 10 Kingshaw Ave.
Actions Taken:	
Follow-up required:	No

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 07:25

**Outfall ID:** ST1-OF1

**Outfall Location:** -71.0921 42.81538

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Good

**Trash/Litter present:** No **Yard waste observed:** Yes

**General Comments:** Dry. Covered by leaves, interior pipe clean. Stormwater runoff from all Woodland Dr. to 1 catch basin, and out in woods.

#### Potential Sources/ Actions Taken:

Samples collected? No

By whom? \_\_\_\_\_

Parameters:	Results:

Follow-up required: No

## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	07:25					
Outfall ID:	ST1-OF1					
Outfall Location:	-71.0921 42.81538					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	75 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material		Shape				
(RCP, CMP, PVC, HDPE, Steel, Other)		RCP	(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)		12				
Open Drainage-						
Material		Shape				
(Concrete, Earthen, Riprap, Other)		Earthen	(Trapezoidal, Parabolic, Other)	Parabolic		
Depth (inches)		36				
Top width (inches)		36				
Bottom width (inches)		24				
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Good			
Trash/Litter present:	No					
Yard waste observed:	Yes					
General Comments:	Dry. Covered by leaves, interior pipe clean. Stormwater runoff from all Woodland Dr. to 1 catch basin, and out in woods.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 07:19

**Outfall ID:** ST1-OF2

**Outfall Location:** -71.09175 42.81986

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Outfall collects runoff from properties 4, 6, and 5. Outfall released into back yard to flow down to woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected?	<u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom?	_____		

**Follow-up required:** No



## Storm Drain Outfall Characteristic Form

Location Information						
Date:	June 22, 2021		Inspector:	Emma Duguay		
Time:	07:19					
Outfall ID:	ST1-OF2					
Outfall Location:	-71.09175 42.81986					
Receiving Waterbody:						
Photo Taken:	<input checked="" type="radio"/> Yes		No	Photo ID:	Please see photo log	
Weather	Cloudy	(Clear, Cloudy)	Approximate Temp:	75 °F	Wind Present:	No
Precipitation in the past 3 days:						
Dry weather inspection form used?	Yes					
Pipe Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Seepage Flow:	None		(None, Trickle, Steady, ¼ pipe flow or more)			
Outfall Description <i>Select all that are applicable, fill in as necessary</i>						
Submerged in water? (No, partially, fully) No						
Type:						
Open Pipe-						
Material			Shape			
(RCP, CMP, PVC, HDPE, Steel, Other)	HDPE		(Circular, Elliptical, Box, Other)	Circular		
Dimensions (inches)	12					
Open Drainage-						
Material			Shape			
(Concrete, Earthen, Riprap, Other)	Earthen		(Trapezoidal, Parabolic, Other)	Flat		
Depth (inches)	24					
Top width (inches)	0					
Bottom width (inches)	0					
Additional Information						
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged)		Open			
Structure Condition:	(Excellent, Good, Fair, Poor)		Excellent			
Trash/Litter present:	No					
Yard waste observed:	No					
General Comments:	Outfall collects runoff from properties 4, 6, and 5. Outfall released into back yard to flow down to woods.					
Actions Taken:						
Follow-up required:	No					

## Dry Weather Outfall Inspection Form

### Location Information

**Date:** June 22, 2021 **Inspector:** Emma Duguay

**Time:** 07:08

**Outfall ID:** ST1-OF3

**Outfall Location:** -71.09243 42.82071

**Receiving Waterbody:** \_\_\_\_\_

**Photo Taken:** Yes ☐ No **Photo ID:** Please see photo log

**Weather** Cloudy (Clear, Cloudy) **Approximate Temp:** 75 °F **Wind Present:** No

**Precipitation in the past 3 days:** No \_\_\_\_\_ inches

**Pipe Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Seepage Flow:** None (None, Trickle, Steady, ¼ pipe flow or more)

**Color (if flow is present):** \_\_\_\_\_

### Inspection Information *Select all that are applicable*

#### Obvious Debris/Pollution:

None ☐ /0  
Foam ☐ /3  
Staining ☐ /5  
Floating Green Scum ☐ /8  
Oil/Film ☐ /9  
Vegetative Mat/Gray Mat ☐ /9  
Sewage Solids ☐ /10

**TOTAL** 0

#### Odor:

None/Natural ☐ /0  
Musty ☐ /5  
Sewage/septic ☐ /10  
Petroleum ☐ /10

**TOTAL** 0

#### Water Clarity:

Clear ☐ /0  
Cloudy ☐ /5  
Opaque ☐ /10

**TOTAL** 0

**GRAND TOTAL SCORE =** 0

### Additional Information

**Sediment Condition:** (Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open

**Structure Condition:** (Excellent, Good, Fair, Poor) Excellent

**Trash/Litter present:** No **Yard waste observed:** No

**General Comments:** Dry. Catch basin and outfall covered by leaves. Storwater runoff approximately from property 1 to end of road. Discharges down swale in woods.

**Potential Sources/ Actions Taken:** \_\_\_\_\_

Samples collected? <u>No</u>	<b>Parameters:</b>	<b>Results:</b>
By whom? _____		

**Follow-up required:** No

## Storm Drain Outfall Characteristic Form

Location Information	
Date:	June 22, 2021
Inspector:	Emma Duguay
Time:	07:08
Outfall ID:	ST1-OF3
Outfall Location:	-71.09243 42.82071
Receiving Waterbody:	
Photo Taken:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Photo ID:	Please see photo log
Weather	Cloudy (Clear, Cloudy)
Approximate Temp:	75 °F
Wind Present:	No
Precipitation in the past 3 days:	inches
Dry weather inspection form used?	Yes
Pipe Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Seepage Flow:	None (None, Trickle, Steady, ¼ pipe flow or more)
Outfall Description <i>Select all that are applicable, fill in as necessary</i>	
Submerged in water? (No, partially, fully) No	
Type:	
Open Pipe-	
Material	Shape
(RCP, CMP, PVC, HDPE, Steel, Other)	(Circular, Elliptical, Box, Other)
Dimensions (inches)	
HDPE	Circular
12	
Open Drainage-	
Material	Shape
(Concrete, Earthen, Riprap, Other)	(Trapezoidal, Parabolic, Other)
Depth (inches)	
24	Parabolic
Top width (inches)	
72	
Bottom width (inches)	
60	
Additional Information	
Sediment Condition:	(Open, ¼ Full, ½ Full, ¾ Full, Plugged) Open
Structure Condition:	(Excellent, Good, Fair, Poor) Excellent
Trash/Litter present:	No
Yard waste observed:	No
General Comments:	Dry. Catch basin and outfall covered by leaves. Storwater runoff approximately from property 1 to end of road. Discharges down swale in woods.
Actions Taken:	
Follow-up required:	No

## Appendix H: Plaistow Public Works Garage and Public Safety Building SWPPPs

**Stormwater Pollution Prevention Plan (SWPPP)**

**For Construction Activities At:**

144 Main Street  
Plaistow, NH 03865

**SWPPP Prepared For:**

Town of Plaistow  
145 Main Street  
Plaistow, NH 03865

**SWPPP Prepared By:**

Civil Design Consultants, Inc.  
344 North Main Street  
Andover, MA 01810  
(978) 416-0920

**SWPPP Preparation Date:**

07/10/2018

**Estimated Project Dates:**

Project Start Date: 07/10/2018

Project Completion Date: 07/10/2020

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## SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES

### 1.1 Operator(s) / Subcontractor(s)

**Instructions (see definition of “operator” at CGP Part 1.1.1):**

- Identify the operator(s) who will be engaged in construction activities at the site. Indicate respective responsibilities, where appropriate. Also include the 24-hour emergency contact.
- List subcontractors expected to work on-site. Notify subcontractors of stormwater requirements applicable to their work.
- Consider using Subcontractor Agreements such as the type included as a sample in Appendix G of the Template.

**Operator(s):**

Town of Plaistow  
145 Main Street  
Plaistow, NH 03865

**Subcontractor(s):**

(Add Subcontractors as needed)

**Emergency 24-Hour Contact:**

Plaistow Department of Public Works  
Town of Plaistow  
145 Main Street  
Plaistow, NH 03865



## 1.2 Stormwater Team

**Instructions (see CGP Part 7.2.2):**

- Identify the individuals (by name or position) that are part of the project's stormwater team, their individual responsibilities, and which members are responsible for inspections. At a minimum the stormwater team is comprised of individuals who are responsible for overseeing the development of the SWPPP, any later modifications to it, and for compliance with the permit requirements (i.e., installing and maintaining stormwater controls, conducting site inspections, and taking corrective actions where required).
- Each member of the stormwater team must have ready access to either an electronic or paper copy of applicable portions of the 2017 CGP and the SWPPP.

Stormwater Team		
Name and/or position, and contact	Responsibilities	I Have Read the CGP and Understand the Applicable Requirements
Mark Pearson Town Manager 603-382-5200		<input type="checkbox"/> Yes Date: <a href="#">Click here to enter a date.</a>
Civil Design Consultants, Inc. (978) 416-0920	SWPPP Contact	<input type="checkbox"/> Yes Date: <a href="#">Click here to enter a date.</a>

*[Insert or delete rows as necessary.]*

## SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

### 2.1 Project/Site Information

**Instructions (see "Project/Site Information" section of Appendix J – NOI form):**

- In this section, you are asked to compile basic site information that will be helpful when you file your NOI.

**Project Name and Address**

Project/Site Name: 144 Main Street

Project Street/Location: 144 Main Street

City: Plaistow

State: NH

ZIP Code: 03865

County or Similar Subdivision: Rockingham

Business days and hours for the project: 7 AM to 5 PM Monday through Saturday

**Project Latitude/Longitude**

Latitude: 42.839° N  
(decimal degrees)

Longitude: - 71.096 ° W  
(decimal degrees)

Latitude/longitude data source:

☒ Map   ☐ GPS   ☐ Other (please specify): \_\_\_\_\_

Horizontal Reference Datum:

☐ NAD 27   ☒ NAD 83   ☐ WGS 84

---

**Additional Project Information**

Are you requesting permit coverage as a "federal operator" as defined in [Appendix A](#) of the 2017 CGP?   ☐ Yes   ☒ No

Is the project/site located on Indian country lands, or located on a property of religious or cultural significance to an Indian tribe?   ☐ Yes   ☒ No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including the name of Indian reservation if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property: [Insert Text Here](#)

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency (e.g., *natural disaster, extreme flooding conditions*), information substantiating its occurrence (e.g., *state disaster declaration*), and a description of the construction necessary to reestablish effective public services: [Insert Text Here](#)

## 2.2 Discharge Information

**Instructions (see “Discharge Information” section of Appendix J – NOI form):**

- In this section, include information relating to your site’s discharge. This information corresponds to the “Discharge Information” section of the NOI form.
- List all of the stormwater points of discharge from your site. Identify each point of discharge with a unique 3-digit ID (e.g., 001, 002).
- For each unique point of discharge you list, specify the name of the first water of the U.S. that receives stormwater directly from the point of discharge and/or from the MS4 that the point of discharge discharges to. You may have multiple points of discharge that discharge to the same receiving water.
- Next, specify whether any waters of the U.S. that you discharge to are listed as “impaired” as defined in [Appendix A](#), and the pollutants causing the impairment. Identify any Total Maximum Daily Loads (TMDL) that have been completed for any of the waters of the U.S. that you discharge to and the pollutants for which there is a TMDL. For more information on impaired waters and TMDLs, including a list of TMDL contacts and links by state, visit <https://www.epa.gov/tmdl>.
- Finally, indicate whether any water of the U.S. that you discharge to is designated as a Tier 2, Tier 2.5, or Tier 3 water and if so, what the designation is (2, 2.5, or 3). A list of Tier 2, 2.5, and 3 waters is provided in [Appendix F](#).

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)? ☒ Yes ☐ No

Are there any waters of the U.S. within 50 feet of your project’s earth disturbances? ☒ Yes ☐ No

For each point of discharge, provide a point of discharge ID (a unique 3-digit ID, e.g., 001, 002), the name of the first water of the U.S. that receives stormwater directly from the point of discharge and/or from the MS4 that the point of discharge discharges to, and the following receiving water information, if applicable:								
Point of Discharge ID	Name of receiving water:	Is the receiving water impaired (on the CWA 303(d) list)?	If yes, list the pollutants that are causing the impairment:	Has a TMDL been completed for this receiving waterbody?	If yes, list TMDL Name and ID:	Pollutant(s) for which there is a TMDL:	Is this receiving water designated as a Tier 2, Tier 2.5, or Tier 3 water?	If yes, specify which Tier (2, 2.5, or 3)?
[001]	Little River	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]
[002]		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]
[003]		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]
[004]		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]
[005]		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]
[006]		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Yes <input type="checkbox"/> No	[INSERT "Tier 2", "Tier 2.5", or "Tier 3"]

[Include additional rows or delete as necessary.]

### 2.3 Nature of the Construction Activities

#### Instructions (see CGP Parts 1.2.1.c and 7.2.3):

- Provide a general description of the nature of the construction activities at your site.
- Describe the size of the property (in acres or in miles if a linear construction site), the total area expected to be disturbed by the construction activities (to the nearest quarter acre or quarter mile if a linear construction site), and the maximum area expected to be disturbed at any one time.
- Indicate the type of construction site, whether there will be certain demolition activities, and whether the predevelopment land use was for agriculture.
- Provide a list and description of all pollutant-generating activities (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal; and dewatering operations) and indicate for each activity the type of pollutant that will be generated (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, fuels) and could be discharged in stormwater from your site.
- Describe the construction support activities covered by this permit (see Part 1.2.1.c of the permit).

#### General Description of Project

Provide a general description of the nature of your construction activities, including the age dates of past renovations for structures that are undergoing demolition:

Clearing and grading of approximately 19.9 acres of land and installation of settling basins and erosion controls.

#### Size of Construction Site

Size of Property	7.9-Ac. +/-
Total Area Expected to be Disturbed by Construction Activities	1.7-Ac. +/-
Maximum Area Expected to be Disturbed at Any One Time	1.7-Ac. +/-

[Repeat as necessary for individual project phases.]

#### Type of Construction Site (check all that apply):

- ☐ Single-Family Residential   
 ☐ Multi-Family Residential   
 ☐ Commercial   
 ☒ Industrial  
☐ Institutional   
☐ Highway or Road   
☐ Utility   
☐ Other \_\_\_\_

Will there be demolition of any structure built or renovated before January 1, 1980?

☐ Yes    ☒ No

If yes, do any of the structures being demolished have at least 10,000 square feet of floor space?

☐ Yes    ☐ No    ☒ N/A

Was the pre-development land use used for agriculture (see [Appendix A](#) for definition of "agricultural land")?

☐ Yes    ☒ No

### Pollutant-Generating Activities

List and describe all pollutant-generating activities and indicate for each activity the type of pollutant that will be generated. Take into account where potential spills and leaks could occur that contribute pollutants to stormwater discharges, and any known hazardous or toxic substances, such as PCBs and asbestos, that will be disturbed during construction.

Pollutant-Generating Activity (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal; and dewatering operations)	Pollutants or Pollutant Constituents (e.g., sediment, fertilizers, pesticides, paints, caulks, sealants, fluorescent light ballasts, contaminated substrates, solvents, fuels)
INSERT POLLUTANT-GENERATING ACTIVITY	INSERT POLLUTANT(S)
INSERT POLLUTANT-GENERATING ACTIVITY	INSERT POLLUTANT(S)
INSERT POLLUTANT-GENERATING ACTIVITY	INSERT POLLUTANT(S)

[Include additional rows or delete as necessary.]

### Construction Support Activities *(only provide if applicable)*

Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas):

[Repeat as necessary.]

## 2.4 Sequence and Estimated Dates of Construction Activities

### Instructions (see CGP Part 7.2.5):

- Describe the intended construction sequence and duration of major activities.
- For each portion or phase of the construction site, include the following:
  - ✓ Commencement and duration of construction activities, including clearing and grubbing, mass grading, demolition activities, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization;
  - ✓ Temporary or permanent cessation of construction activities;
  - ✓ Temporary or final stabilization of areas of exposed soil. The dates for stabilization must reflect the applicable deadlines to which you are subject to in Part 2.2.14; and
  - ✓ Removal of temporary stormwater controls and construction equipment or vehicles, and cessation of any pollutant-generating activities.
- The construction sequence must reflect the following requirements:
  - ✓ Part 2.1.3 (installation of stormwater controls); and
  - ✓ Parts 2.2.14 (stabilization deadlines).

Described below are the major construction activities that are the subject of this SWPPP. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control. All activities and the timeframe (beginning and ending dates) shall be recorded by the General Contractor:

1. Contractor to review all local, state, and federal permits.
2. Review and certify the SWPPP. A copy of the SWPPP shall be kept on the site at all times.
3. Delineate the limit of tree clearing operations.
4. Install stabilized construction entrances.
5. Cut and clear trees within the area of disturbance, unless otherwise noted.
6. Construct temporary and permanent erosion control facilities prior to any earth moving operations.
7. Rough grade. All slopes shall be stabilized immediately after grading. All disturbed areas shall be stabilized no later than 72-hours after construction activities cease. If earthwork temporarily ceases on a portion of or on the entire site, and will not resume within 21-days, the area shall be stabilized. (Stabilize proposed pavement areas with compacted gravels and other disturbed areas with temporary grass seed). An area shall be considered stable if one of the following has occurred:
  - A. Base course gravels have been installed in areas to be paved;
  - B. A minimum of 85% vegetated growth has been established;
  - C. A minimum of 3" of non-erosive material such as stone or rip-rap has been installed; or
  - D. Erosion control blankets have been properly installed.
8. Install all underground utilities.
9. Construct roadways according to the plan. All slopes shall be stabilized immediately after grading.
10. Construct buildings and associated infrastructure.
11. Surface treatment of all disturbed areas not paved or otherwise landscaped shall be treated with 4" loam and seed.
12. Inspect and maintain all erosion and sedimentation control measures periodically and immediately after storm events.
13. Complete permanent seeding and landscaping.
14. Remove temporary erosion control measures once all areas are stabilized with a suitable stand of grass, pavement or compacted gravels.

*[Repeat as needed.]*

## 2.5 Authorized Non-Stormwater Discharges

### Instructions (see CGP Parts 1.2.2 and 7.2.5):

- Identify all authorized sources of non-stormwater discharges. The authorized non-stormwater discharges identified in Part 1.2.2 of the 2017 CGP include:
  - ✓ Discharges from emergency fire-fighting activities;
  - ✓ Fire hydrant flushings;
  - ✓ Landscape irrigation;
  - ✓ Waters used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes;
  - ✓ Water used to control dust;
  - ✓ Potable water including uncontaminated water line flushings;
  - ✓ External building washdown, provided soaps, solvents and detergents are not used, and external surfaces do not contain hazardous substances (e.g., paint or caulk containing PCBs);
  - ✓ Pavement wash waters provided spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and detergents are not used. You are prohibited from directing pavement wash waters directly into any water of the U.S., storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control;
  - ✓ Uncontaminated air conditioning or compressor condensate;
  - ✓ Uncontaminated, non-turbid discharges of ground water or spring water;
  - ✓ Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated ground water; and
  - ✓ Construction dewatering water discharged in accordance with Part 2.4.

### List of Authorized Non-Stormwater Discharges Present at the Site

Type of Authorized Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Fire hydrant flushings	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Landscape irrigation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Waters used to wash vehicles and equipment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water used to control dust	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Potable water including uncontaminated water line flushings	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
External building washdown (soaps/solvents are not used and external surfaces do not contain hazardous substances)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pavement wash waters	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Uncontaminated air conditioning or compressor condensate	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Foundation or footing drains	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction dewatering water	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

*(Note: You are required to identify the likely locations of these authorized non-stormwater discharges on your site map. See Section 2.6, below, of the SWPPP Template.)*

## 2.6 Site Maps

### Instructions (see CGP Part 7.2.4):

- Attach site maps in Appendix A of the Template. For most projects, a series of site maps is necessary and recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or, for more complicated sites, show the major phases of development.

### These maps must include the following features:

- Boundaries of the property and of the locations where construction will occur, including:
  - ✓ Locations where earth-disturbing activities will occur, noting any phasing of construction activities and any demolition activities;
  - ✓ Approximate slopes before and after major grading activities. Note areas of steep slopes, as defined in CGP Appendix A;
  - ✓ Locations where sediment, soil, or other construction materials will be stockpiled;
  - ✓ Locations of any crossings of waters of the U.S.;
  - ✓ Designated points where vehicles will exit onto paved roads;
  - ✓ Locations of structures and other impervious surfaces upon completion of construction; and
  - ✓ Locations of on-site and off-site construction support activity areas covered by this permit (see Part 1.2.1.c).
- Locations of all waters of the U.S., including wetlands, on your site and within one mile downstream of the site's discharge point. Indicate which waterbodies are listed as impaired, and which are identified by your state, tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 waters.
- Areas of federally-listed critical habitat for endangered or threatened species within the site and/or at discharge locations.
- Type and extent of pre-construction cover on the site (e.g., vegetative cover, forest, pasture, pavement, structures)
- Drainage pattern(s) of stormwater and authorized non-stormwater before and after major grading activities.
- Stormwater and authorized non-stormwater discharge locations, including:
  - ✓ Locations where stormwater and/or authorized non-stormwater will be discharged to storm drain inlets; and
  - ✓ Locations where stormwater or allowable non-stormwater will be discharged to waters of the U.S. (including wetlands).
- Locations of all potential pollutant-generating activities.
- Locations of stormwater controls, including natural buffer areas and any shared controls utilized to comply with the permit.
- Locations where polymers, flocculants, or other treatment chemicals will be used and stored.

## SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS

### 3.1 Endangered Species Protection

**Instructions (see CGP Parts 1.1.5, 7.2.9.a, Appendix D, and the “Endangered Species Protection” section of the Appendix J – NOI form):**

Using the instructions in [Appendix D](#) of the permit, determine under which criterion listed below (A-F) you are eligible for coverage under this permit with respect to the protection of endangered species. To make this determination, you must use information from **BOTH** the National Marine Fisheries Service (NMFS) and U.S. Fish and Wildlife Service (USFWS). Both the NMFS and USFWS maintain lists of Endangered Species Act-listed (ESA-listed) species and designated critical habitat. Operators must consult both when determining their eligibility.

- Check only 1 box, include the required information and provide a sound basis for supporting the criterion selected. Select the most conservative criterion that applies
- Include documentation supporting your determination of eligibility.
- A step-by-step guide and flow-chart on ESA provisions for EPA’s CGP is available at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#species>

#### Eligibility Criterion

Under which criterion listed in [Appendix D](#) are you eligible for coverage under this permit?

- ☐ **Criterion A:** No ESA-listed species and/or designated critical habitat present in action area.

Using the process outlined in Appendix D of this permit, you certify that ESA-listed species and designated critical habitat(s) under the jurisdiction of the USFWS or NMFS are not likely to occur in your site’s “action area” as defined in Appendix A of this permit.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion A should identify the USFWS and NMFS information sources used. Attaching aerial image(s) of the site to your NOI is helpful to EPA, USFWS, and NMFS in confirming eligibility under this criterion. Please Note: NMFS’ jurisdiction includes ESA-listed marine and estuarine species that spawn in inland rivers. Check the applicable source(s) of information you relied upon:

- ☐ Specific communication with staff of the USFWS and/or NMFS. [INSERT DATE OF COMMUNICATION AND WHO YOU SPOKE WITH](#)
- ☐ Species list from USFWS and/or NMFS. See the [CGP ESA webpage, Step 2](#) for available websites. [INSERT SPECIFIC DOCUMENT AND/OR WEBSITE RELIED UPON](#)

- ☐ **Criterion B:** Eligibility requirements met by another operator under the 2017 CGP. The construction site’s discharges and discharge-related activities were already addressed in another operator’s valid certification of eligibility for your “action area” under eligibility Criterion A, C, D, E, or F of the 2017 CGP and you have confirmed that no additional ESA-listed species and/or designated critical habitat under the jurisdiction of USFWS and/or NMFS not considered in the that certification may be present or located in the “action area.” To certify your eligibility under this criterion, there must be no lapse of NPDES permit coverage in the other CGP operator’s certification. By certifying eligibility under this criterion, you agree to comply with any conditions upon which the other CGP operator’s certification was based. You must include in your NOI the NPDES ID from the other 2017CGP operator’s notification of authorization under this permit. If your certification is based on another 2017 CGP operator’s certification under criterion C, you must provide EPA with the

relevant supporting information required of existing dischargers in criterion C in your NOI form.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion B should identify the eligibility criterion of the other CGP NOI, the authorization date, and confirmation that the authorization is effective.

- ✓ Provide the 9-digit NPDES ID number from the other operator's NOI under the 2017 CGP:
- ✓ Authorization date of the other 2017 CGP operator: **INSERT AUTHORIZATION DATE OF OTHER OPERATOR**
- ✓ Eligibility criterion of the other 2017 CGP operator: ☐A ☐C ☐D ☐E ☐F
- ✓ Provide a brief summary of the basis the other operator used for selecting criterion A, C, D, E, or F: **INSERT TEXT HERE**

- ☒ **Criterion C:** Discharges not likely to adversely affect ESA-listed species and/or designated critical habitat. ESA-listed species and/or designated critical habitat(s) under the jurisdiction of the USFWS and/or NMFS are likely to occur in or near your site's "action area," and you certify to EPA that your site's discharges and discharge-related activities are not likely to adversely affect ESA-listed threatened or endangered species and/or designated critical habitat. This certification may include consideration of any stormwater controls and/or management practices you will adopt to ensure that your discharges and discharge-related activities are not likely to adversely affect ESA-listed species and/or designated critical habitat. To certify your eligibility under this criterion, indicate 1) the ESA-listed species and/or designated habitat located in your "action area" using the process outlined in Appendix D of this permit; 2) the distance between the site and the listed species and/or designated critical habitat in the action area (in miles); and 3) a rationale describing specifically how adverse effects to ESA-listed species will be avoided from the discharges and discharge-related activities. You must also include a copy of your site map from your SWPPP showing the upland and in-water extent of your "action area" with this NOI.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion C should identify the information resources and expertise (e.g., state or federal biologists) used to arrive at this conclusion. Any supporting documentation should explicitly state that both ESA-listed species and designated critical habitat under the jurisdiction of the USFWS and/or NMFS were considered in the evaluation.

- ✓ Resources used to make determination: USFWS IPaC indicates the potential presence of the Northern Long-eared Bat, however no Critical Habitats are identified in the location.
- ✓ ESA-listed Species/Critical Habitat in action area: Northern Long-eared Bat.
- ✓ Distance between site and ESA-listed Species/Critical Habitat: N/A, no critical habitat present.
- ✓ How adverse effects will be avoided: Erosion control devices are also provided on the site.

- ☐ **Criterion D:** Coordination with USFWS and/or NMFS has successfully concluded.  
Coordination between you and the USFWS and/or NMFS has concluded. The coordination must have addressed the effects of your site's discharges and discharge-related activities on ESA-listed species and/or designated critical habitat under the jurisdiction of USFWS and/or NMFS, and resulted in a written concurrence from USFWS and/or NMFS that your

site's discharges and discharge-related activities are not likely to adversely affect listed species and/or critical habitat. You must include copies of the correspondence with the participating agencies in your SWPPP and this NOI.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion D should identify whether USFWS or NMFS or both agencies participated in coordination, the field office/regional office(s) providing that coordination, and the date that coordination concluded.

- ✓ Agency coordinated with: ☐ USFWS ☐ NMFS
- ✓ Field/regional office(s) providing coordination: [INSERT FIELD/REGIONAL OFFICE\(S\) PROVIDING COORDINATION](#)
- ✓ Date coordination concluded: [INSERT DATE COORDINATION CONCLUDED](#)
- ✓ Attach copies of any letters or other communication between you and the U.S. Fish & Wildlife Service or National Marine Fisheries Service concluding coordination activities.

- 
- ☐ **Criterion E: ESA Section 7 consultation has successfully concluded.** Consultation between a Federal Agency and the USFWS and/or NMFS under section 7 of the ESA has concluded. The consultation must have addressed the effects of the construction site's discharges and discharge-related activities on ESA-listed species and/or designated critical habitat under the jurisdiction of USFWS and/or NMFS. To certify eligibility under this criterion, Indicate the result of the consultation:

- ☐ Biological opinion from USFWS and/or NMFS that concludes that the action in question (taking into account the effects of your site's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, nor the destruction or adverse modification of critical habitat; or
- ☐ Written concurrence from USFWS and/or NMFS with a finding that the site's discharges and discharge-related activities are not likely to adversely affect ESA-listed species and/or designated critical habitat. You must include copies of the correspondence between yourself and the USFWS and/or NMFS in your SWPPP and this NOI.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion E should identify the federal action agency(ies) involved, the field office/regional office(s) providing that consultation, any tracking numbers of identifiers associated with that consultation (e.g., IPaC number, PCTS number), and the date the consultation was completed.

- ✓ Federal agency(ies) involved: [INSERT FEDERAL AGENCY\(IES\) INVOLVED](#)
- ✓ Field/regional office(s) providing consultation: [INSERT FIELD/REGIONAL OFFICE\(S\) PROVIDING CONSULTATION](#)
- ✓ Tracking numbers associated with consultation: [INSERT CONSULTATION TRACKING NUMBER\(S\)](#)
- ✓ Date consultation completed: [INSERT DATE CONSULTATION COMPLETED](#)
- ✓ Attach copies of any letters or other communication between you and the U.S. Fish & Wildlife Service or National Marine Fisheries Service concluding consultation.

- 
- ☐ **Criterion F: Issuance of section 10 permit.** Potential take is authorized through the issuance of a permit under section 10 of the ESA by the USFWS and/or NMFS, and this authorization addresses the effects of the site's discharges and discharge-related activities on ESA-listed

species and designated critical habitat. You must include copies of the correspondence between yourself and the participating agencies in your SWPPP and your NOI.

**Basis statement content/Supporting documentation:** A basis statement supporting the selection of Criterion F should identify whether USFWS or NMFS or both agencies provided a section 10 permit, the field office/regional office(s) providing permit(s), any tracking numbers of identifiers associated with that consultation (e.g., IPaC number, PCTS number), and the date the permit was granted.

- ✓ Agency providing section 10 permit: ☐ USFWS ☐ NMFS
- ✓ Field/regional office(s) providing permit: [INSERT FIELD/REGIONAL OFFICE\(S\) PROVIDING PERMIT](#)
- ✓ Tracking numbers associated with consultation: [INSERT CONSULTATION TRACKING NUMBER\(S\)](#)
- ✓ Date permit granted: [INSERT DATE PERMIT GRANTED](#)
- ✓ Attach copies of any letters or other communication between you and the U.S. Fish & Wildlife Service or National Marine Fisheries Service.

### 3.2 Historic Preservation

**Instructions (see CGP Part 1.1.6, 7.2.9.b, Appendix E, and the “Historic Preservation” section of the Appendix J – NOI form):**

Follow the screening process in Appendix E of the permit for determining whether your installation of subsurface earth-disturbing stormwater controls will have an effect on historic properties.

- Include documentation supporting your determination of eligibility.
- To contact your applicable state or tribal historic preservation office, information is available at [www.achp.gov/programs/html](http://www.achp.gov/programs/html).

#### Appendix E, Step 1

Do you plan on installing any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- ☐ Dike
- ☒ Berm
- ☐ Catch Basin
- ☐ Pond
- ☒ Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- ☐ Culvert
- ☐ Other type of ground-disturbing stormwater control: Wet Basin

(Note: If you will not be installing any ground-disturbing stormwater controls, no further documentation is required for Section 3.2 of the Template.)

#### Appendix E, Step 2

If you answered yes in Step 1, have prior surveys or evaluations conducted on the site already determined that historic properties do not exist, or that prior disturbances at the site have precluded the existence of historic properties? ☒ YES ☐ NO

- If yes, no further documentation is required for Section 3.2 of the Template.
- If no, proceed to Appendix E, Step 3.

### Appendix E, Step 3

If you answered no in Step 2, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? ☐ YES ☐ NO

If yes, provide documentation of the basis for your determination. [INSERT REFERENCES TO DOCUMENTS, STUDIES, OR OTHER SOURCES RELIED UPON](#)

If no, proceed to Appendix E, Step 4.

### Appendix E, Step 4

If you answered no in Step 3, did the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other tribal representative (whichever applies) respond to you within 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? ☐ YES ☐ NO

If no, no further documentation is required for Section 3.2 of the Template.

If yes, describe the nature of their response:

- ☐ Written indication that no historic properties will be affected by the installation of stormwater controls. [INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE](#)
- ☐ Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions. [INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE](#)
- ☐ No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls. [INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE](#)
- ☐ Other: [INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE](#)

### 3.3 Safe Drinking Water Act Underground Injection Control Requirements

**Instructions (see CGP Part 7.2.9.c):**

- If you will use any of the identified controls in this section, include documentation of contact between you and the applicable state agency or EPA Regional Office responsible for implementing the requirements for underground injection wells in the Safe Drinking Water Act and EPA's implementing regulations at 40 CFR Parts 144-147. \
- For state UIC program contacts, refer to the following EPA website:  
<https://www.epa.gov/uic>.

Do you plan to install any of the following controls? Check all that apply below.

- ☐ Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- ☐ Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow
- ☐ Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

IF YES, INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE STATE AGENCY OR EPA REGIONAL OFFICE



## SECTION 4: EROSION AND SEDIMENT CONTROLS

### General Instructions (See CGP Parts 2.2 and 7.2.6):

- Describe the erosion and sediment controls that will be installed and maintained at your site.
- Describe any applicable stormwater control design specifications (including references to any manufacturer specifications and/or erosion and sediment control manuals/ordinances relied upon).
- Describe any routine stormwater control maintenance specifications.
- Describe the projected schedule for stormwater control installation/implementation.

### 4.1 *Natural Buffers or Equivalent Sediment Controls*

#### Instructions (see CGP Parts 2.2.1 and 7.2.6.b.i, and Appendix G):

This section only applies to you if a water of the U.S. is located within 50 feet of your site's earth disturbances. If this is the case, consult CGP Part 2.2.1 and Appendix G for information on how to comply with the buffer requirements.

- Describe the compliance alternative (CGP Part 2.2.1.a.i, ii, or iii) that was chosen to meet the buffer requirements, and include any required documentation supporting the alternative selected. The compliance alternative selected must be maintained throughout the duration of permit coverage. However, if you select a different compliance alternative during your period of permit coverage, you must modify your SWPPP to reflect this change.
- If you qualify for one of the exceptions in CGP Part 2.2.1.b, include documentation related to your qualification for such exceptions.

### Buffer Compliance Alternatives

Are there any waters of the U.S. within 50 feet of your project's earth disturbances? ☐ YES ☒ NO

(Note: If no, no further documentation is required for Part 4.1 in the SWPPP Template. Continue on to Part 4.2.)

Check the compliance alternative that you have chosen:

- ☐ (i) I will provide and maintain a 50-foot undisturbed natural buffer.

(Note (1): You must show the 50-foot boundary line of the natural buffer on your site map.)

(Note (2): You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls. Also, show on the site map any velocity dissipation devices used to prevent erosion within the natural buffer area.)

- ☐ (ii) I will provide and maintain an undisturbed natural buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

(Note (1): You must show the boundary line of the natural buffer on your site map.)

(Note (2): You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and

sediment controls. Also, show on the site map any velocity dissipation devices used to prevent erosion within the natural buffer area.)

- INSERT WIDTH OF NATURAL BUFFER TO BE RETAINED
- INSERT EITHER ONE OF THE FOLLOWING:  
(1) THE ESTIMATED SEDIMENT REMOVAL FROM A 50-FOOT BUFFER USING APPLICABLE TABLES IN APP. G, ATTACHMENT 1. INCLUDE INFORMATION ABOUT THE BUFFER VEGETATION AND SOIL TYPE THAT PREDOMINATE AT YOUR SITE

OR

- (2) IF YOU CONDUCTED A SITE-SPECIFIC CALCULATION FOR THE ESTIMATED SEDIMENT REMOVAL OF A 50-FOOT BUFFER, PROVIDE THE SPECIFIC REMOVAL EFFICIENCY, AND INFORMATION YOU RELIED UPON TO MAKE YOUR SITE-SPECIFIC CALCULATION.
- INSERT DESCRIPTION OF ADDITIONAL EROSION AND SEDIMENT CONTROLS TO BE USED IN COMBINATION WITH NATURAL BUFFER AREA
- INSERT THE FOLLOWING INFORMATION:
  - (1) SPECIFY THE MODEL OR OTHER TOOL USED TO ESTIMATE SEDIMENT LOAD REDUCTIONS FROM THE COMBINATION OF THE BUFFER AREA AND ADDITIONAL EROSION AND SEDIMENT CONTROLS INSTALLED AT YOUR SITE, AND
  - (2) INCLUDE THE RESULTS OF CALCULATIONS SHOWING THAT THE COMBINATION OF YOUR BUFFER AREA AND THE ADDITIONAL EROSION AND SEDIMENT CONTROLS INSTALLED AT YOUR SITE WILL MEET OR EXCEED THE SEDIMENT REMOVAL EFFICIENCY OF A 50-FOOT BUFFER

- ☐ (iii) It is infeasible to provide and maintain an undisturbed natural buffer of any size, therefore I will implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

- INSERT RATIONALE FOR CONCLUDING THAT IT IS INFEASIBLE TO PROVIDE AND MAINTAIN A NATURAL BUFFER OF ANY SIZE
- INSERT EITHER ONE OF THE FOLLOWING:  
(1) THE ESTIMATED SEDIMENT REMOVAL FROM A 50-FOOT BUFFER USING APPLICABLE TABLES IN APP. G, ATTACHMENT 1. INCLUDE INFORMATION ABOUT THE BUFFER VEGETATION AND SOIL TYPE THAT PREDOMINATE AT YOUR SITE

OR

- (2) IF YOU CONDUCTED A SITE-SPECIFIC CALCULATION FOR THE ESTIMATED SEDIMENT REMOVAL OF A 50-FOOT BUFFER, PROVIDE THE SPECIFIC REMOVAL EFFICIENCY, AND INFORMATION YOU RELIED UPON TO MAKE YOUR SITE-SPECIFIC CALCULATION.
- INSERT DESCRIPTION OF ADDITIONAL EROSION AND SEDIMENT CONTROLS TO BE USED IN COMBINATION WITH NATURAL BUFFER AREA
- INSERT THE FOLLOWING INFORMATION:
  - (1) SPECIFY THE MODEL OR OTHER TOOL USED TO ESTIMATE SEDIMENT LOAD REDUCTIONS FROM THE EROSION AND SEDIMENT CONTROLS INSTALLED AT YOUR SITE, AND
  - (2) INCLUDE THE RESULTS OF CALCULATIONS SHOWING THAT THE ADDITIONAL EROSION AND SEDIMENT CONTROLS INSTALLED AT YOUR SITE WILL MEET OR EXCEED THE SEDIMENT REMOVAL EFFICIENCY OF A 50-FOOT BUFFER

- ☐ I qualify for one of the exceptions in Part 2.2.1.b. (If you have checked this box, provide information on the applicable buffer exception that applies, below.)

### Buffer Exceptions

Which of the following exceptions to the buffer requirements applies to your site?

- ☐ There is no discharge of stormwater to the water of the U.S. that is located 50 feet from my construction disturbances.  
(Note: If this exception applies, no further documentation is required for Section 4.1 of the Template.)
- ☐ No natural buffer exists due to preexisting development disturbances that occurred prior to the initiation of planning for this project.  
(Note (1): If this exception applies, no further documentation is required for Section 4.1 of the Template.)  
(Note (2): Where some natural buffer exists but portions of the area within 50 feet of the surface water are occupied by preexisting development disturbances, you must still comply with the one of the CGP Part 2.2.1.a compliance alternatives.)
- ☐ For a "linear construction sites" (defined in Appendix A), site constraints (e.g., limited right-of-way) make it infeasible to meet any of the CGP Part 2.2.1.a compliance alternatives. **INCLUDE DOCUMENTATION HERE OF THE FOLLOWING: (1) WHY IT IS INFEASIBLE FOR YOU TO MEET ONE OF THE BUFFER COMPLIANCE ALTERNATIVES, AND (2) BUFFER WIDTH RETAINED AND/OR SUPPLEMENTAL EROSION AND SEDIMENT CONTROLS TO TREAT DISCHARGES TO THE SURFACE WATER**
- ☐ The project qualifies as "small residential lot" construction (defined in Appendix A) (see Appendix G, Part G.3.2).
- ☐ For Alternative 1:
- **INSERT WIDTH OF NATURAL BUFFER TO BE RETAINED**
  - **INSERT APPLICABLE REQUIREMENTS BASED ON TABLE G-1**
  - **INSERT DESCRIPTION OF HOW YOU WILL COMPLY WITH THESE REQUIREMENTS**
- ☐ For Alternative 2:
- **INSERT (1) THE ASSIGNED RISK LEVEL BASED ON APP. G APPLICABLE TABLE G-2 THROUGH G-6 AND (2) THE PREDOMINANT SOIL TYPE AND AVERAGE SLOPE AT YOUR SITE**
  - **INSERT APPLICABLE REQUIREMENTS BASED ON APP. G, TABLE G-7**
  - **INSERT DESCRIPTION OF HOW YOU WILL COMPLY WITH THESE REQUIREMENTS**
- ☐ Buffer disturbances are authorized under a CWA Section 404 permit. **INSERT DESCRIPTION OF ANY EARTH DISTURBANCES THAT WILL OCCUR WITHIN THE BUFFER AREA**  
(Note (1): If this exception applies, no further documentation is required for Section 4.1 of the Template.)  
(Note (2): This exception only applies to the limits of disturbance authorized under the Section 404 permit, and does not apply to any upland portion of the construction project.)
- ☐ Buffer disturbances will occur for the construction of a water-dependent structure or water access area (e.g., pier, boat ramp, and trail). **INSERT DESCRIPTION OF ANY EARTH DISTURBANCES THAT WILL OCCUR WITHIN THE BUFFER AREA**  
(Note (1): If this exception applies, no further documentation is required for Section 4.1 of the Template.)

## 4.2 Perimeter Controls

### Instructions (see CGP Parts 2.2.3 and 7.2.6.b.ii):

- Describe sediment controls that will be used (e.g., silt fences, filter berms, temporary diversion dikes, or fiber rolls) to meet the Part 2.2.3 requirement to “install sediment controls along any perimeter areas of the site that will receive pollutant discharges.”
- For linear projects, where you have determined that the use of perimeter controls in portions of the site is infeasible, document other practices that you will implement.

### General

- Silt fence and filter sock will be utilized along the down gradient perimeter of disturbance as needed to reduce the potential for erosion and sedimentation.

### Specific Perimeter Controls

Silt Fence	
Description: Silt fence and filter sock.	
Installation	To be installed prior to any earth disturbing activities.
Maintenance Requirements	Remove sediment before it has accumulated to one-half of the above-ground height of any perimeter control.
Design Specifications	See plan set.

[Repeat as needed for individual perimeter controls.]

## 4.3 Sediment Track-Out

### Instructions (see CGP Parts 2.2.4 and 7.2.6.b.iii):

- Describe stormwater controls that will be used to minimize sediment track-out.
- Describe location(s) of vehicle exit(s), procedures to remove accumulated sediment off-site (e.g., vehicle tracking), and stabilization practices (e.g., stone pads or wash racks or both) to minimize off-site vehicle tracking of sediment. Also include the design, installation, and maintenance specifications for each control.

### General

- A stabilized construction entrance shall be installed after site clearing but before any earth moving activities to prevent sediment track out.

### Specific Track-Out Controls

Stabilized Construction Entrance	
Description: Crushed stone stabilized construction entrance	
Installation	To be installed prior to any earth disturbing activities.
Maintenance Requirements	Where sediment has been tracked-out from your site onto paved roads, sidewalks, or other paved areas outside of your site, remove the deposited sediment by the end of the same business day in which the track-out occurs or

	by the end of the next business day if track-out occurs on a non-business day. Remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. You are prohibited from hosing or sweeping tracked-out sediment into any stormwater conveyance, storm drain inlet, or water of the U.S.
<b>Design Specifications</b>	See plan set.

[Repeat as needed for individual track-out controls.]

#### 4.4 Stockpiled Sediment or Soil

<b>Instructions (see CGP Parts 2.2.5 and 7.2.6):</b> <ul style="list-style-type: none"> <li>Describe stormwater controls and other measures you will take to minimize the discharge of sediment or soil particles from stockpiled sediment or soil. Include a description of structural practices (e.g., diversions, berms, ditches, storage basins), including design, installation, and maintenance specifications, used to divert flows from stockpiled sediment or soil, retain or detain flows, or otherwise limit exposure and the discharge of pollutants from stockpiled sediment or soil.</li> <li>For piles that will be unused for 14 or more days, describe what cover or other appropriate temporary stabilization will be used.</li> <li>Also, describe any controls or procedures used to minimize exposure resulting from adding to or removing materials from the pile.</li> </ul>	
---	--

#### General

#### Specific Stockpile Controls

<b>Soil Stockpile</b>	
<b>Description:</b>	Soil stockpile area for temporary storage of excess material.
<b>Installation</b>	As required.
<b>Maintenance Requirements</b>	You are prohibited from hosing down or sweeping soil or sediment accumulated on pavement or other impervious surfaces into any stormwater conveyance, storm drain inlet, or water of the U.S.
<b>Design Specifications</b>	See location on plan set.

[Repeat as needed for individual stockpile controls.]

#### 4.5 Minimize Dust

<b>Instructions (see CGP Parts 2.2.6 and 7.2.6):</b> Describe controls and procedures you will use at your site to minimize the generation of dust.
--

#### General

- Standard industry practices will be utilized at the project site to control dust generation including a water truck, sweeper, and stone at construction entrances. Dust control measures will be applied to disturbed and

work areas as necessary. The Operator will be required to provide equipment to blanket disturbed areas with moisture or sweep, as necessary. Site housekeeping practices will be employed to remove dust and debris from paved and concrete surfaces.

#### 4.6 *Minimize Steep Slope Disturbances*

**Instructions (see CGP Parts 2.2.7 and 7.2.6):**

- Describe how you will minimize the disturbance to steep slopes (as defined by CGP Appendix A).
- Describe controls (e.g., erosion control blankets, tackifiers), including design, installation and maintenance specifications, that will be implemented to minimize sediment discharges from slope disturbances.

**General**

- Geotextiles such as jute netting will be used in combination with other practices such as mulching to stabilize slopes as required.

#### 4.7 *Topsoil*

**Instructions (see CGP Parts 2.2.8 and 7.2.6):**

- Describe how topsoil will be preserved and identify these areas and associated control measures on your site map(s).
- If it is infeasible for you to preserve topsoil on your site, provide an explanation for why this is the case.

**General**

- The contractor shall make all reasonable efforts to preserve and reuse any top soil disturbed during earthwork operations.

#### 4.8 *Soil Compaction*

**Instructions (see CGP Parts 2.2.9 and 7.2.6):**

- In areas where final vegetative stabilization will occur or where infiltration practices will be installed, describe the controls, including design, installation, and maintenance specifications that will be used to restrict vehicle or equipment access or condition the soil for seeding or planting.

**General**

- Upon final grading and placement of permanent seed, the contractor shall make all reasonable efforts to avoid construction equipment tracking and soil compaction of finalized surface.

#### 4.9 Storm Drain Inlets

**Instructions (see CGP Parts 2.2.10 and 7.2.6):**

- Describe controls (e.g., inserts, rock-filled bags, or block and gravel) including design, installation, and maintenance specifications that will be implemented to protect all inlets that carry stormwater flow from your site to a water of the U.S., provided you have the authority to access the storm drain inlet.

##### General

##### Ultra-Drainguard

In the event storm drain inlet protection is necessary to address siltation, the contractor is directed to provide Ultra-Drainguard (or an approved equal) as directed by the engineer.

##### Installation Schedule

Ultra-Drainguard should be installed prior to any earth moving operations or as directed by the engineer.

##### Maintenance and Inspection

Sediment should be removed from the trapping device after the sediment has reached a maximum of one half the depth of the bag. All structures should be inspected after every rain storm and repairs made as necessary.

#### 4.10 Stormwater Conveyance Channels

**Instructions (see CGP Parts 2.2.11 and 7.2.6):**

If you will be installing a stormwater conveyance channel, describe control practices (e.g., velocity dissipation devices), including design specifications and details (volume, dimensions, outlet structure), that will be implemented at the construction site.

##### General

- N/A

#### 4.11 Sediment Basins

**Instructions (see CGP Parts 2.2.12 and 7.2.6.b.iv):**

If you will install a sediment basin, include design specifications and other details (volume, dimensions, outlet structure) that will be implemented in conformance with CGP Part 2.2.12.

- Sediment basins must be situated outside waters of the U.S. and any natural buffers established under CGP Part 2.2.1; and designed to avoid collecting water from wetlands.
- At a minimum, sediment basins provide storage for either (1) the calculated volume of runoff from the 2-year, 24-hour storm (see CGP App. H), or (2) 3,600 cubic feet per acre drained
- Sediment basins must also utilize outlet structures that withdraw water from the surface, unless infeasible

##### General

#### 4.12 Chemical Treatment

**Instructions (see CGP Parts 2.2.13 and 7.2.6.v):**

If you are using treatment chemicals at your site, provide details for each of the items below. This information is required as part of the SWPPP requirements in CGP Part 7.2.6.v.

N/A

#### 4.13 Dewatering Practices

**Instructions (see CGP Parts 2.4 and 7.2.6):**

If you will be discharging ground water or accumulated stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation, include design specifications and details of all dewatering practices that are installed and maintained to comply with CGP Part 2.4.

N/A

#### 4.14 Other Stormwater Controls

**Instructions:**

- Describe any other stormwater controls that do not fit into the above categories.

N/A

#### 4.15 Site Stabilization

**Instructions (see CGP Parts 2.2.14 and 7.2.6.vi):**

The CGP requires you to immediately initiate stabilization when work in an area of your site has permanently or temporarily stopped, and to complete certain stabilization activities within prescribed deadlines. Construction projects disturbing more than 5 acres at any one time have a different deadline than projects disturbing 5 acres or less at any one time. See CGP Part 2.2.14.a. The CGP also requires that stabilization measures meet certain minimum criteria. See CGP Part 2.2.14.b. For your SWPPP, you must include the following:

- Describe the specific vegetative and/or non-vegetative practices that will be used to stabilize exposed soils where construction activities have temporarily or permanently ceased. Avoid using impervious surfaces for stabilization whenever possible.
- The stabilization deadline(s) that will be met in accordance with Part 2.2.14.a
- Once you begin construction, consider using the Grading/Stabilization Activities log in Appendix H of the Template to document your compliance with the stabilization requirements in CGP Part 2.2.14.

**Total Amount of Land Disturbance Occurring at Any One Time**



- ☒ Five Acres or less  
☐ More than Five Acres

Use this template box if you are not located in an arid, semi-arid, or drought-stricken area

- ☒ Vegetative ☐ Non-Vegetative  
☒ Temporary ☒ Permanent

### Temporary Seeding

#### Installation Schedule

- Planting should preferably be done between April 1<sup>st</sup> and June 30<sup>th</sup>, and September 1<sup>st</sup> through September 30<sup>th</sup>. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1<sup>st</sup> and March 31<sup>st</sup>, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.
- Before seeding, install structural practice controls. Utilize Amoco supergrow or equivalent.
- The seedbed should be firm with a fairly fine surface. Perform all cultural operations across or at right angles to the slope. A minimum of 2 to 4-inches of tilled topsoil is required. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content.
- Apply uniformly 2 tons of ground limestone per acre (100 lbs. Per 1,000 sq.ft.) or according to soil test. Apply uniformly 10-10-10 analysis fertilizer at the rate of 400 lbs. per acre (14 lbs. per 1,000 sq.ft.) or as indicated by soil test. Forty percent of the nitrogen should be in organic form. Work in lime and fertilizer to a depth of 4-inches using any suitable equipment.
- Select the appropriate seed species for temporary cover from the following table and apply by hydroseeding, broadcasting, or by hand.

Species	Seeding Rate (lbs/1,000 -SF)	Seeding Rate (lbs/acre)	Recommended Seeding Dates	Seed Cover required
Annual Ryegrass	1	40	April 1 <sup>st</sup> to June 1 <sup>st</sup> August 15 <sup>th</sup> to Sept. 15 <sup>th</sup>	¼ inch
Foxtail Millet	0.7	30	May 1 <sup>st</sup> to June 30 <sup>th</sup>	½ to ¾ inch
Oats	2	80	April 1 <sup>st</sup> to July 1 <sup>st</sup> August 15 <sup>th</sup> to Sept. 15 <sup>th</sup>	1 to 1-½ inch
Winter Rye	3	120	August 15 <sup>th</sup> to Oct. 15 <sup>th</sup>	1 to 1-½ inch

- Use an effective mulch, such as clean grain straw; tacked and/or tied with netting to protect seedbed and encourage plant growth.

#### Maintenance and Inspection

- Inspect within 6 weeks of planting to see if stands are adequate. Check for damage within 24 hours of the end of a heavy rainfall, defined as a 2-year storm event (i.e., 3.2 inches of rainfall within a twenty-four hour period). Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.
- Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather. Water application rates should be controlled to prevent runoff.

### Permanent Seeding

#### Installation Schedule

- In infertile or coarse-textured subsoil, it is best to stockpile topsoil and respread it over the finished slope at a minimum 2 to 6-inch depth and roll it to provide a firm seedbed. The topsoil must have a sandy loam to silt loam

texture with 15% to 20% organic content. If construction fill operations have left soil exposed with a loose, rough, or irregular surface, smooth with blade and roll.

2. Loosen the soil to a depth of 3-5 inches with suitable agricultural or construction equipment.
3. Areas not to receive topsoil shall be treated to firm the seedbed after incorporation of the lime and fertilizer so that it is depressed no more than ½ - 1 inch when stepped on with a shoe. Areas to receive topsoil shall not be firmed until after topsoiling and lime and fertilizer is applied and incorporated, at which time it shall be treated to firm the seedbed as described above.
4. Select an appropriate cool or warm season grass based on site conditions and seeding date. Apply the seed uniformly by hydroseeding, broadcasting, or by hand. Uniform seed distribution is essential. On steep slopes, hydroseeding may be the most effective seeding method. Surface roughening is particularly important when preparing slopes for hydroseeding.
5. Lime and fertilize.
6. Mulch the seedings with straw applied at the rate of ½ tons per acre. Anchor the mulch with erosion control netting or fabric on sloping areas. Amoco supergrow or equivalent should be utilized.

#### Maintenance and Inspection

1. Frequently inspect seeded areas for failure and make necessary repairs and reseed immediately. Conduct a follow-up survey after one year and replace failed plants where necessary.
2. If vegetative cover is inadequate to prevent rill erosion, overseed and fertilize in accordance with soil test results.
3. If a stand has less than 40% cover, re-evaluate choice of plant materials and quantities of lime and fertilizer. Re-establish the stand following seedbed preparation and seeding recommendations, omitting lime and fertilizer in the absence of soil test results. If the season prevents resowing, mulch or jute netting is an effective temporary cover.
4. Seeded areas should be fertilized during the second growing season. Lime and fertilize thereafter at periodic intervals, as needed.

**Use this template box if unforeseen circumstances have delayed the initiation and/or completion of vegetative stabilization.** Note: You will not be able to include this information in your initial SWPPP. If you are affected by circumstances such as those described in CGP Part 2.2.14.a.iii, you will need to modify your SWPPP to include this information.

INSERT NAME OF SITE STABILIZATION PRACTICE	
<input type="checkbox"/> Vegetative <input type="checkbox"/> Temporary <input type="checkbox"/> Permanent	
<b>Description:</b> <ul style="list-style-type: none"> <li>▪ INSERT DESCRIPTION OF STABILIZATION PRACTICE TO BE INSTALLED</li> <li>▪ NOTE HOW DESIGN WILL MEET REQUIREMENTS OF PART 2.2.14.b</li> </ul>	
<b>Justification</b>	INSERT DESCRIPTION OF CIRCUMSTANCES THAT PREVENT YOU FROM MEETING THE DEADLINES REQUIRED IN CGP PARTS 2.2.14.a
<b>Installation and completion schedule</b>	<b>Vegetative Measures:</b> DESCRIBE THE SCHEDULE YOU WILL FOLLOW FOR INITIATING AND COMPLETING VEGETATIVE STABILIZATION <ul style="list-style-type: none"> <li>▪ Approximate installation date: INSERT APPROXIMATE DATE</li> <li>▪ Approximate completion date: INSERT APPROXIMATE DATE</li> </ul>
	<b>Non-Vegetative Measures:</b> <i>(must be completed within 14 days of the cessation of construction if disturbing 5 acres or less; within 7 days if disturbing more than 5 acres)</i> <ul style="list-style-type: none"> <li>▪ Approximate installation date: INSERT APPROXIMATE DATE</li> <li>▪ Approximate completion date: INSERT APPROXIMATE DATE</li> </ul>
<b>Maintenance Requirements</b>	INSERT MAINTENANCE REQUIREMENTS FOR THE STABILIZATION PRACTICE

Design Specifications	INCLUDE COPIES OF DESIGN SPECIFICATIONS HERE
-----------------------	--

[Repeat as needed for additional stabilization practices.]

## SECTION 5: POLLUTION PREVENTION STANDARDS

### 5.1 *Potential Sources of Pollution*

#### **Instructions (see CGP Part 7.2.3.g):**

- Identify and describe all pollutant-generating activities at your site (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal).
- For each pollutant-generating activity, include an inventory of pollutants or pollutant constituents associated with that activity (e.g., sediment, fertilizers, and/or pesticides, paints, solvents, fuels), which could be exposed to rainfall or snowmelt, and could be discharged from your construction site. You must take into account where potential spills and leaks could occur that contribute pollutants to stormwater discharges, and any known hazardous or toxic substances, such as PCBs and asbestos, that will be disturbed or removed during construction.

#### **Construction Site Pollutants**

##### Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

General Contractor is responsible to establish proper equipment / vehicle fueling and maintenance practices to avoid any discharge of pollutants to the stormwater management system.

##### Control Equipment / Vehicle Washing

General Contractor is responsible to develop controlled equipment/vehicle washing practices that will be implemented to avoid any discharge of pollutants to the stormwater management system.

## 5.2 Spill Prevention and Response

### Instructions (see CGP Parts 2.3.6 and 7.2.6.vii):

- Describe procedures you will use to prevent and respond to leaks, spills, and other releases. You must implement the following at a minimum:
  - ✓ Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases. Identify the name or title of the employee(s) responsible for detection and response of spills or leaks; and
  - ✓ Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity consistent with Part 2.3.6 and established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period. Contact information must be in locations that are readily accessible and available.
- Some projects/site may be required to develop a Spill Prevention Control and Countermeasure (SPCC) plan under a separate regulatory program (40 CFR 112). If you are required to develop an SPCC plan, or you already have one, you should include references to the relevant requirements from your plan.

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:

1. An effort will be made to store only the amount of material required to do the job.
2. All materials stored onsite will be stored in an orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
3. Products will be kept in their original containers with the original manufacturer's label.
4. Substances will not be mixed with one another unless recommended by the manufacturer.
5. Whenever possible, all of a product will be used up before disposing of the container.
6. Manufacturer's recommendations for proper use and disposal will be followed.
7. The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.
8. Products will be kept in the original containers unless they are not re-sealable.
9. Original labels and material safety data will be retained; they contain important product information.
10. If surplus product must be disposed of, manufacturers or local and State recommended methods for proper disposal will be followed.
11. Petroleum Products – All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.
12. Fertilizers – Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

### 5.3 Fueling and Maintenance of Equipment or Vehicles

**Instructions (see CGP Parts 2.3.1 and 7.2.6):**

- Describe equipment/vehicle fueling and maintenance practices that will be implemented to eliminate the discharge of spilled or leaked chemicals (e.g., providing secondary containment (*examples: spill berms, decks, spill containment pallets*) and cover where appropriate, and/or having spill kits readily available.)

**General**

- [See Section 5.1](#)

### 5.4 Washing of Equipment and Vehicles

**Instructions (see CGP Parts 2.3.2 and 7.2.6):**

- Describe equipment/vehicle washing practices that will be used to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of wash waters (e.g., locating activities away from waters of the U.S. and stormwater inlets or conveyances and directing wash waters to a sediment basin or sediment trap, using filtration devices, such as filter bags or sand filters, or using other similarly effective controls).
- Describe how you will prevent the discharge of soaps, detergents, or solvents by providing either (1) cover (*examples: plastic sheeting or temporary roofs*) to prevent these detergents from coming into contact with rainwater, or (2) a similarly effective means designed to prevent the discharge of pollutants from these areas.

**General**

- [See Section 5.1](#)

### 5.5 Storage, Handling, and Disposal of Building Products, Materials, and Wastes

**Instructions (see CGP Parts 2.3.3 and 7.2.6):**

- For any of the types of building products, materials, and wastes below in Sections 5.5.1-5.5.6 below that you expect to use or store at your site, provide the information on how you will comply with the corresponding CGP provision and the specific practices that you will be employ.

#### 5.5.1 Building Products

(Note: Examples include asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures, and gravel and mulch stockpiles.)

**General**

- [See Section 5.1](#)

### 5.5.2 *Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials*

#### General

- [See Section 5.1](#)

### 5.5.3 *Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals*

#### General

- [See Section 5.1](#)

### 5.5.4 *Hazardous or Toxic Waste*

(Note: Examples include paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids.)

#### General

- [See Section 5.1](#)

### 5.5.5 *Construction and Domestic Waste*

(Note: Examples include packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.)

#### General

- [See Section 5.1](#)

### 5.5.6 *Sanitary Waste*

#### General

- [See Section 5.1](#)

### 5.6 *Washing of Applicators and Containers used for Paint, Concrete or Other Materials*

#### Instructions (see CGP Parts 2.3.4 and 7.2.6):

- Describe how you will comply with the CGP Part 2.3.4 requirement for washing applications and containers.

#### General

- [See Section 5.1](#)

### 5.7 *Fertilizers*

#### Instructions (CGP Parts 2.3.5 and 7.2.6.ix):

Describe how you will comply with the CGP Part 2.3.5 requirement for the application of fertilizers.

#### General

- [See Section 5.1](#)

## 5.8 *Other Pollution Prevention Practices*

**Instructions:**

Describe any additional pollution prevention practices that do not fit into the above categories.

**General**

- [See Section 5.1](#)



## SECTION 6: INSPECTION, MAINTENANCE, AND CORRECTIVE ACTION

### 6.1 *Inspection Personnel and Procedures*

**Instructions (see CGP Parts 3.2, 4, 5, and 7.2.7):**

Describe the procedures you will follow for conducting inspections in accordance with CGP Parts 3.2, 4, 5, and 7.2.7.

**Personnel Responsible for Inspections**

Town of Plaistow

145 Main Street

Plaistow, NH 03865

### 6.3 *Delegation of Authority*

**Instructions:**

- Identify the individual(s) or positions within the company who have been delegated authority to sign inspection reports.
- Attach a copy of the signed delegation of authority (see example in Appendix J of the Template.)
- For more on this topic, see Appendix I, Subsection 11 of EPA's CGP.

**Duly Authorized Representative(s) or Position(s):**

## SECTION 7: TRAINING

### Instructions (see CGP Part 6 and 7.2.8):

- Complete the table below to provide documentation that the personnel required to be trained in CGP Part 6 completed the appropriate training
- If personnel will be taking course training (which is not required as part of the CGP), consider using Appendix I of this SWPPP template to track completion of this training
- The following personnel, at a minimum, must receive training, and therefore should be listed out individually in the table below:
  - ✓ Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention measures);
  - ✓ Personnel responsible for the application and storage of treatment chemicals (if applicable);
  - ✓ Personnel who are responsible for conducting inspections as required in Part 4.1; and
  - ✓ Personnel who are responsible for taking corrective actions as required in Part 5.
- CGP Part 6 requires that the required personnel must be trained to understand the following if related to the scope of their job duties:
  - ✓ The permit deadlines associated with installation, maintenance, and removal of stormwater controls and with stabilization;
  - ✓ The location of all stormwater controls on the 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; and
  - ✓ When and how to conduct inspections, record applicable findings, and take corrective actions.

**Table 7-1: Documentation for Completion of Training**

Name	Describe Training	Date Training Completed
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
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INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE
INSERT NAME OF PERSONNEL		INSERT COMPLETION DATE

## SECTION 8: CERTIFICATION AND NOTIFICATION

### Instructions (CGP Appendix I, Part I.11.b):

- The following certification statement must be signed and dated by a person who meets the requirements of Appendix I, Part I.11.b.
- This certification must be re-signed in the event of a SWPPP Modification.

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.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*[Repeat as needed for multiple construction operators at the site.]*

## SWPPP APPENDICES

Attach the following documentation to the SWPPP:

***Appendix A – Site Maps***

***Appendix B – Copy of 2017 CGP***

(Note: The 2017 CGP is available at <https://www.epa.gov/npdes/epas-2017-construction-general-permit-cgp-and-related-documents>)

***Appendix C – NOI and EPA Authorization Email***

***Appendix D – Inspection Form***

(Note: EPA has developed a sample inspection form that CGP operators can use. The form is available at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>)

***Appendix E – Corrective Action Form***

(Note: EPA has developed a sample corrective action form that CGP operators can use. The form is available at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>)

***Appendix F – SWPPP Amendment Log***

***Appendix G – Subcontractor Certifications/Agreements***

***Appendix H – Grading and Stabilization Activities Log***

***Appendix I – Training Log***

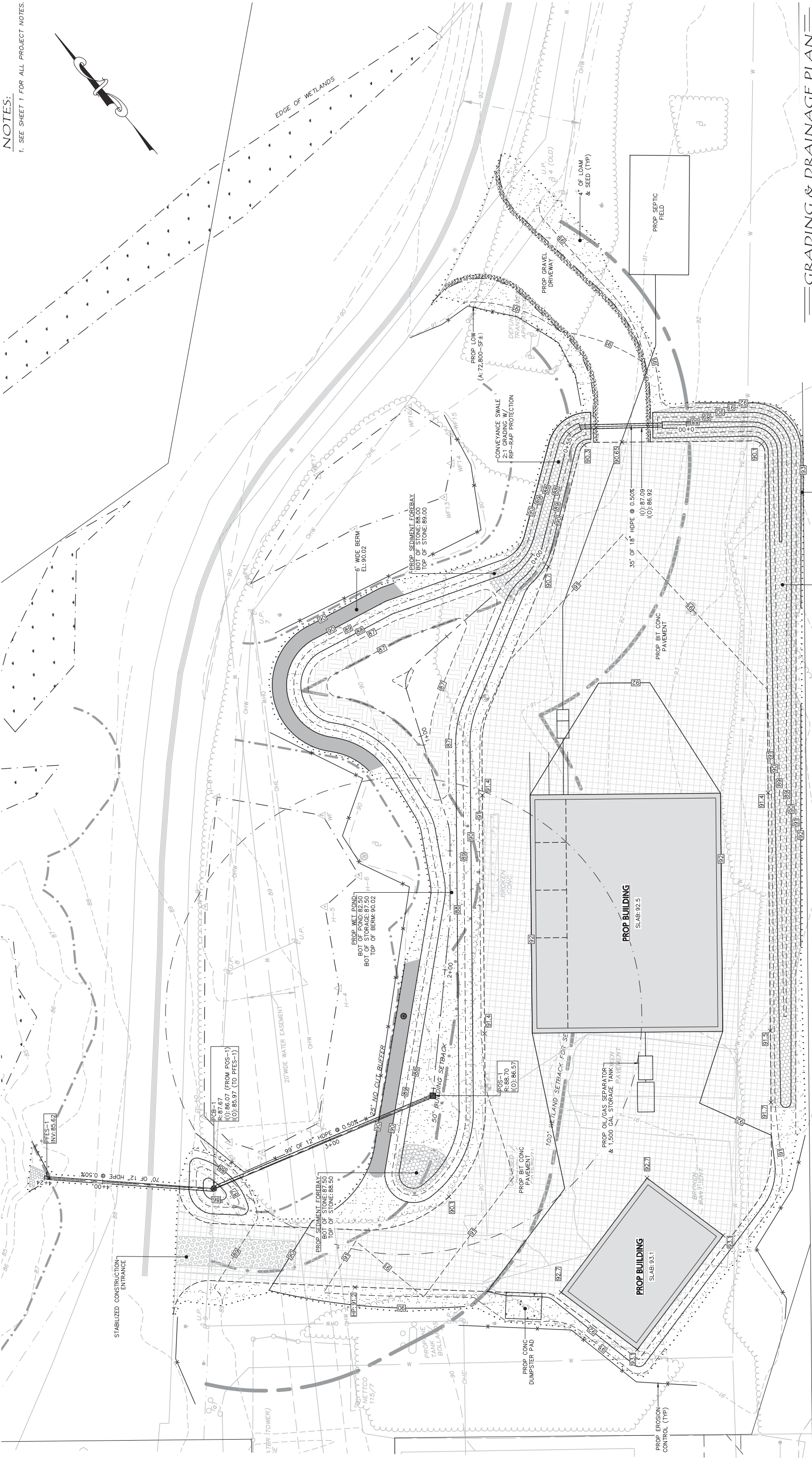
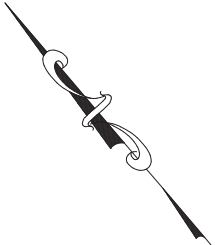
***Appendix J – Delegation of Authority***

***Appendix K – Endangered Species Documentation***

***Appendix L – Historic Preservation Documentation***

## Appendix A – Site Maps

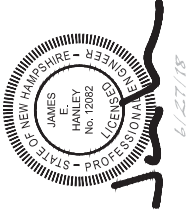
NOTES:  
1. SEE SHEET 1 FOR ALL PROJECT NOTES.



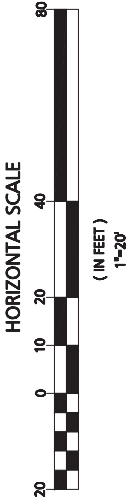
GRADING & DRAINAGE PLAN

PROJECT:		TAX MAP 41 LOT 11 144 MAIN STREET PLAISTOW, NEW HAMPSHIRE	
SCALE:	1"=20'	DRAWN BY:	AKG
DATE:	JUNE 27, 2018	REVISED:	1.
OWNER/APPLICANT:	TOWN OF PLAISTOW 145 MAIN STREET PLAISTOW, NH 03865		
PREPARED BY:	S.E.C. & ASSOCIATES, INC. SURVEYING & ENGINEERING CONSULTANTS P.O. BOX 1337 - PLAISTOW, NH 03865 ~ SPRING, N.H. & MA. ~		
DRAWING #:	2439-WDWC	JOB NO.:	18-2439

ENGINEERING SERVICES PROVIDED BY:  
**CIVIL DESIGN**  
Consultants, Inc.  
30 River Street  
Methuen, MA 01844-1097  
Tel: (978) 416-0920  
Fax: (978) 416-7985

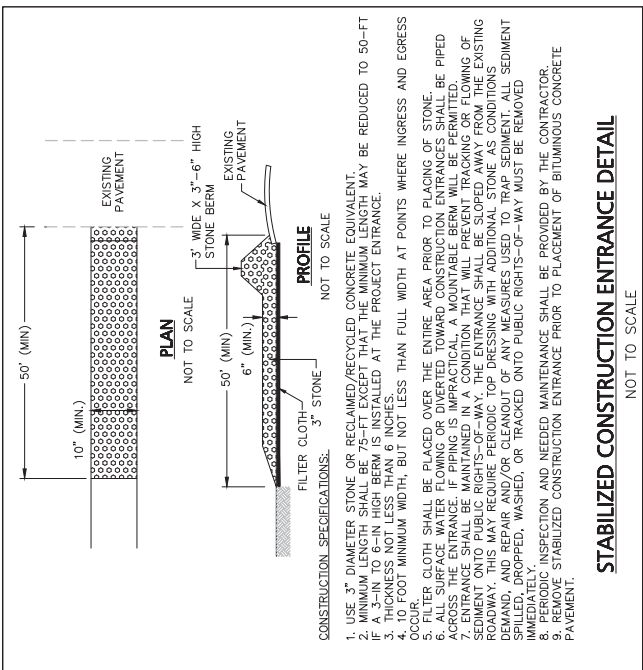
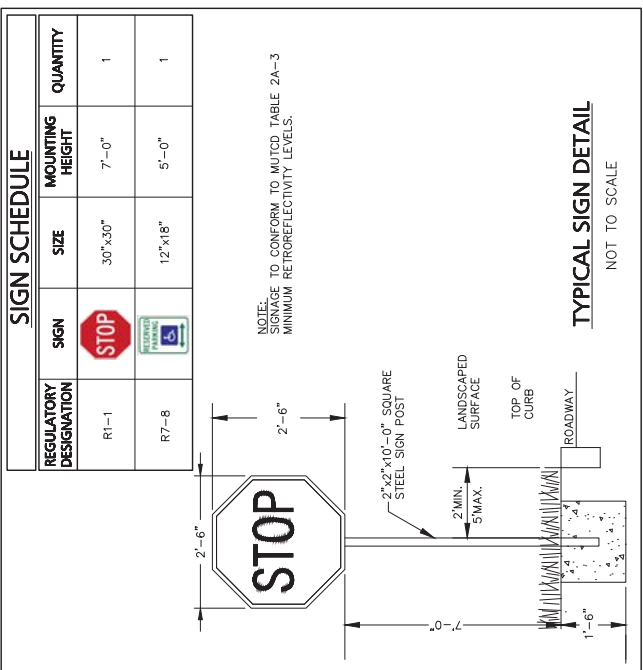
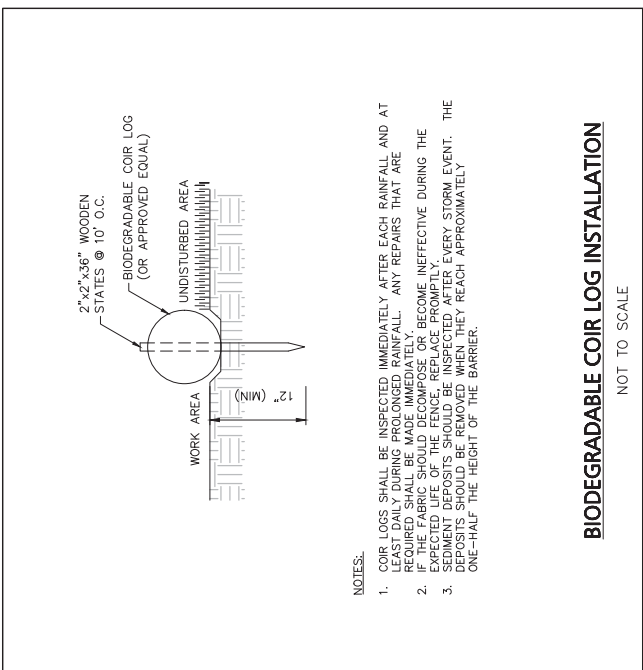
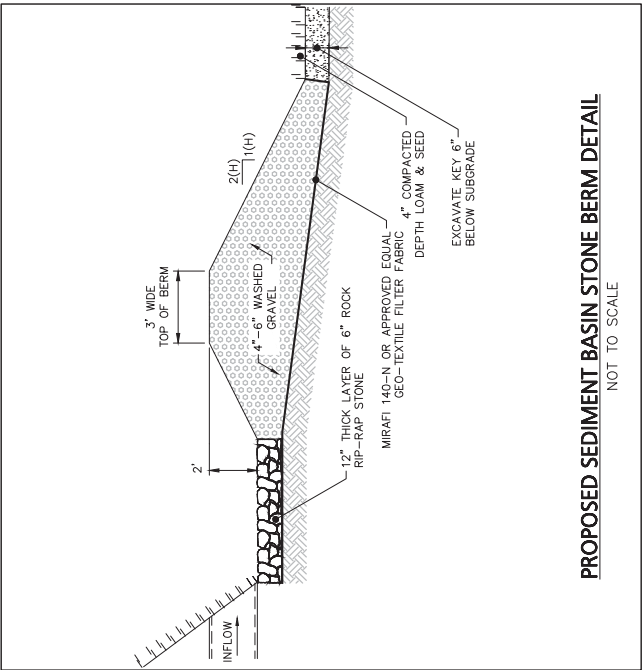
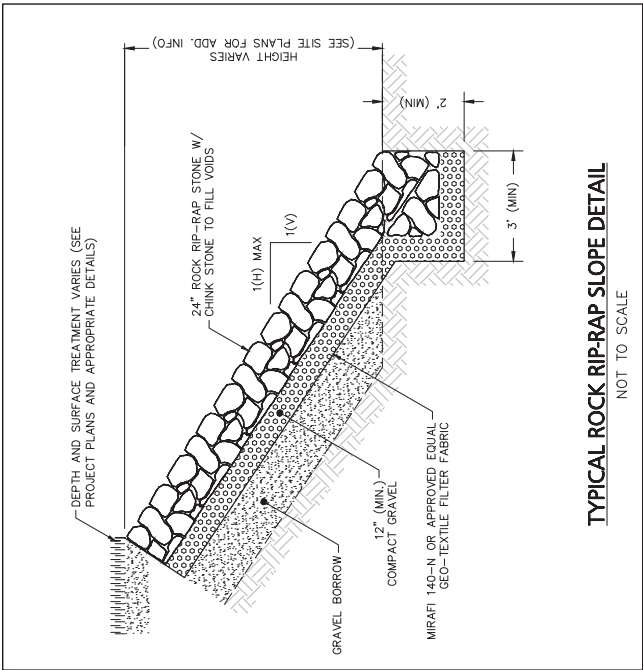
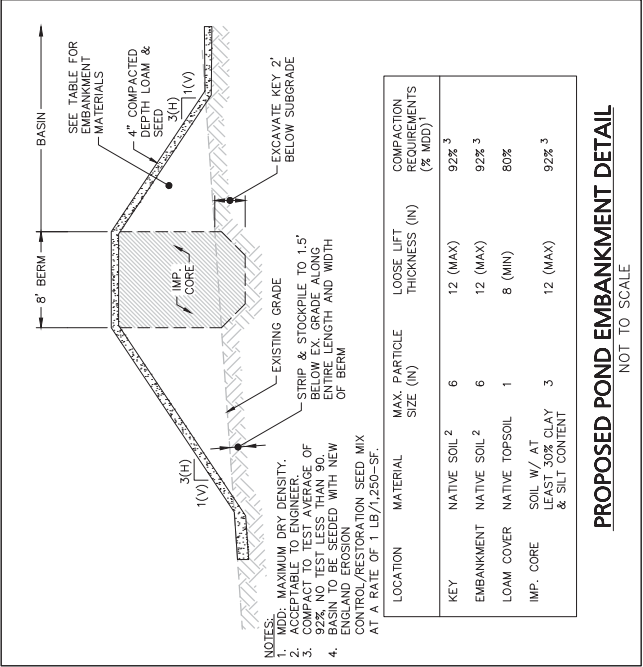
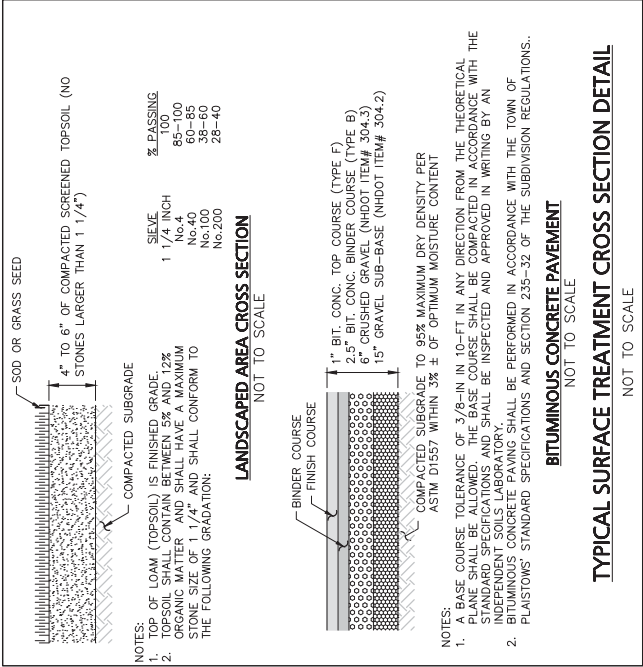


STAMP  
6/27/18

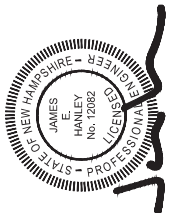








- GENERAL CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, ELEVATIONS, AND LOCATIONS OF UTILITIES AND STRUCTURES WITH THE SURVEY AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC., AND OTHER APPROVAL RELATED ITEMS. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED.
3. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE NHDOT AND THE LOCAL SUBDIVISION REGULATIONS.
4. CONTRACTOR TO CONFIRM AND VERIFY THE VALIDITY, LOCATION, MATERIAL AND DEPTH OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND CONFIRM SAID UTILITIES WITH ALL APPLICABLE MUNICIPALITIES AND UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. ONCE UTILITIES HAVE BEEN CONFIRMED IN THE FIELD BY CONTRACTOR AND VERIFIED BY THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS, PRIOR TO COMMENCEMENT OF EXCAVATION OR RELOCATION OF ANY UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL UTILITIES DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATE. CORRECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
7. RELOCATION OF ANY UTILITIES SHALL BE AT THE OWNERS EXPENSE AND COMPLETED PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, WALKS, CURBS, ETC. THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
9. AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE DOCUMENTS AND SUBSEQUENT ISSUED PLAN REVISIONS. ANY DEVIATIONS FROM THESE DOCUMENTS SHALL REQUIRE NOTIFICATION TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE WORKING AT HIS OR HER OWN RISK.
11. ALL WATER AND SEPTIC CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN OF PLAISTOW RULES AND REGULATIONS.



6/27/18

STAMP

PROJECT: TAX MAP 41 LOT 11  
144 MAIN STREET  
PLAISTOW, NEW HAMPSHIRE

SCALE: N/A DRAWN BY: AKG

DATE: JUNE 27, 2018 REVISED: 1.

OWNER/APPLICANT: TOWN OF PLAISTOW  
145 MAIN STREET  
PLAISTOW, NH 03865

PREPARED BY: **S.E.C. & ASSOCIATES, INC.**  
SURVEYING & ENGINEERING CONSULTANTS  
P.O. BOX 1337 - PLAISTOW, NH 03865 PHONE: (603)-382-5065  
~ SERVING N.H. & MA. ~ FAX: (603)-382-5216

DRAWING #: 2439-W.DWG  
JOB NO: 18-2439

ENGINEERING SERVICES PROVIDED BY:

**CIVIL DESIGN**  
Consultants, Inc.

30 River Street  
Methuen, MA 01844-1097  
Tel: (978) 416-0920  
Fax: (978) 416-7065



1. SEDIMENT LADEN WATERS DUE TO CONSTRUCTION ACTIVITIES SHALL NOT BE DISCHARGED TO THE DETENTION BASIN.
2. EXPOSED SOIL SURFACES SHALL NOT BE TRAVERSED WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, EXCAVATIONS SHALL BE PERFORMED OUTSIDE THE LIMITS OF THE DETENTION BASIN.
3. AFTER THE BASIN IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHALL BE COVERED WITH A 12" MINIMUM THICKNESS OF 100% FINE SAND TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVEL DRAG.
4. THE BASINS SHALL IMMEDIATELY BE SEEDED FOR VEGETATIVE COVER TO BE ESTABLISHED AFTER GRADING ACTIVITIES ARE COMPLETED.
5. THE DETENTION BASIN SHALL NOT BE PLACED INTO SERVICE UNTIL ALL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
6. SEDIMENT TRAPS AND/OR TEMPORARY BASINS SHALL BE USED AS NECESSARY TO CONTAIN STORMWATER RUN-OFF UNTIL THE PERMANENT BASIN AND SWALES ARE STABILIZED.



## 1500 GALLON TANK

SEE OUTLET STR  
SUMMARY FOR W  
SPECIFICATIONS

## OUTLET STRUCTURE DETAIL

**Appendix B – Copy of 2017 CGP**

**Appendix C – Copy of NOI and EPA Authorization email**

## Appendix D – Copy of Inspection Form

<b>General Information</b> (see reverse for instructions)					
<b>Name of Project</b>		<b>NPDES ID No.</b>		<b>Inspection Date</b>	
<b>Weather conditions during inspection</b>		<b>Inspection start time</b>		<b>Inspection end time</b>	
<b>Inspector Name, Title &amp; Contact Information</b>					
<b>Present Phase of Construction</b>					
<b>Inspection Location</b> (if multiple inspections are required, specify location where this inspection is being conducted)					
<b>Inspection Frequency</b> <i>(Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply)</i> <b>Standard Frequency:</b> <input type="checkbox"/> Every 7 days <input type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain or the occurrence of runoff from snowmelt sufficient to cause a discharge  <b>Increased Frequency:</b> <input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)  <b>Reduced Frequency:</b> <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once per month after first month; (for stabilized areas) <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a 0.25" rain (for stabilized areas on "linear construction sites") <input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought) <input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted)					
<b>Was this inspection triggered by a 0.25" storm event?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If yes, how did you determined whether a 0.25" storm event has occurred?</b> <input type="checkbox"/> Rain gauge on site <input type="checkbox"/> Weather station representative of site. Specify weather station source:  <b>Total rainfall amount that triggered the inspection</b> (in inches):					
<b>Was this inspection triggered by the occurrence of runoff from snowmelt sufficient to cause a discharge?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No					
<b>Unsafe Conditions for Inspection</b> <b>Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.5?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If "yes", complete the following:</b> <div style="margin-left: 20px;">             - Describe the conditions that prevented you from conducting the inspection in this location:        </div> <div style="margin-left: 20px;">             - Location(s) where conditions were found:           </div>					

Condition and Effectiveness of Erosion and Sediment (E&S) Controls (CGP Part 2.2)				
(see reverse for instructions)				
Type/Location of E&S Control [Add an additional sheet if necessary]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
8.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

\* **Note:** The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)				
(see reverse for instructions)				
Type/Location of P2 Practices [Add an additional sheet if necessary]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
8.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

\* **Note:** The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

### Stabilization of Exposed Soil (CGP Part 2.2.14)

(see reverse for instructions)

Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	Notes
1.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	
2.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	
3.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	
4.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	
5.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	

### Description of Discharges (CGP Part 4.6.6)

(see reverse for instructions)

Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If "yes", provide the following information for each point of discharge:	
Discharge Location [Add an additional sheet if necessary]	Observations
1.	Describe the discharge:  At points of discharge and the channels and banks of waters of the U.S. in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No  If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:
2.	Describe the discharge:  At points of discharge and the channels and banks of waters of the U.S. in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No  If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:



**Contractor or Subcontractor Signature and Certification**

(see reverse for instructions)

"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."

**Signature of Contractor or Subcontractor:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name and Affiliation:** \_\_\_\_\_

**Operator Signature and Certification**

(see reverse for instructions)

"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."

**Signature of Operator or "Duly Authorized Representative":** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name and Affiliation:** \_\_\_\_\_

Appendix E – Copy of Corrective Action Form

No.	Description of Corrective Action	Date of Action	Action Performed [Name(s) and Title]

## Appendix F – SWPPP Amendment Log

### Instructions (see CGP Part 7.4):

- Create a log here of changes and updates to the SWPPP. You may use the table below to track these modifications.
- SWPPP modifications are required pursuant to CGP Part 7.4.1 in the following circumstances:
  - ✓ Whenever new operators become active in construction activities on your site, or you make changes to your construction plans, stormwater controls, or other activities at your site that are no longer accurately reflected in your SWPPP;
  - ✓ To reflect areas on your site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;
  - ✓ If inspections or investigations determine that SWPPP modifications are necessary for compliance with this permit;
  - ✓ Where EPA determines it is necessary to install and/or implement additional controls at your site in order to meet requirements of the permit; and
- To reflect any revisions to applicable federal, state, tribal, or local requirements that affect the stormwater control measures implemented at the site.
- If applicable, if a change in chemical treatment systems or chemically-enhanced stormwater control is made, including use of a different treatment chemical, different dosage rate, or different area of application.

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

## Appendix G – Subcontractor Certifications/Agreements

### SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Number: 18-10116

Project Title: 144 Main Street, Plaistow NH

Operator(s): Town of Plaistow

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

**I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.**

This certification is hereby signed in reference to the above named project:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Type of construction service to be provided: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Appendix H – Grading and Stabilization Activities Log

Date Grading Activity Initiated	Description of Grading Activity	Description of Stabilization Measure and Location	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures Initiated

## Appendix I – SWPPP Training Log

### Stormwater Pollution Prevention Training Log

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

Instructor's Name(s): \_\_\_\_\_

Instructor's Title(s): \_\_\_\_\_

Course Location: \_\_\_\_\_ Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Stormwater Training Topic: *(check as appropriate)*

☐ Sediment and Erosion Controls

☐ Emergency Procedures

☐ Stabilization Controls

☐ Inspections/Corrective Actions

☐ Pollution Prevention Measures

Specific Training Objective: \_\_\_\_\_

\_\_\_\_\_

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		

## Appendix J – Delegation of Authority Form

### Delegation of Authority

I, \_\_\_\_\_ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit (CGP), at the \_\_\_\_\_ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(name of person or position)  
(company)  
(address)  
(city, state, zip)  
(phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA's CGP, and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

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.

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix K – Endangered Species Documentation



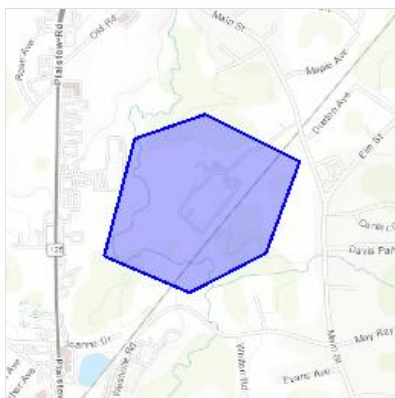
# IPaC resource list

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

Rockingham County, New Hampshire



## 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<sup>1</sup> 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<sup>2</sup>).

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.
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 <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	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<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

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.)
<b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i> 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. <a href="https://ecos.fws.gov/ecp/species/1626">https://ecos.fws.gov/ecp/species/1626</a>	Breeds Oct 15 to Aug 31
<b>Black-billed Cuckoo</b> <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9399">https://ecos.fws.gov/ecp/species/9399</a>	Breeds May 15 to Oct 10
<b>Bobolink</b> <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
<b>Red-headed Woodpecker</b> <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10

**Snowy Owl** *Bubo scandiacus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Wood Thrush** *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## 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 (—)

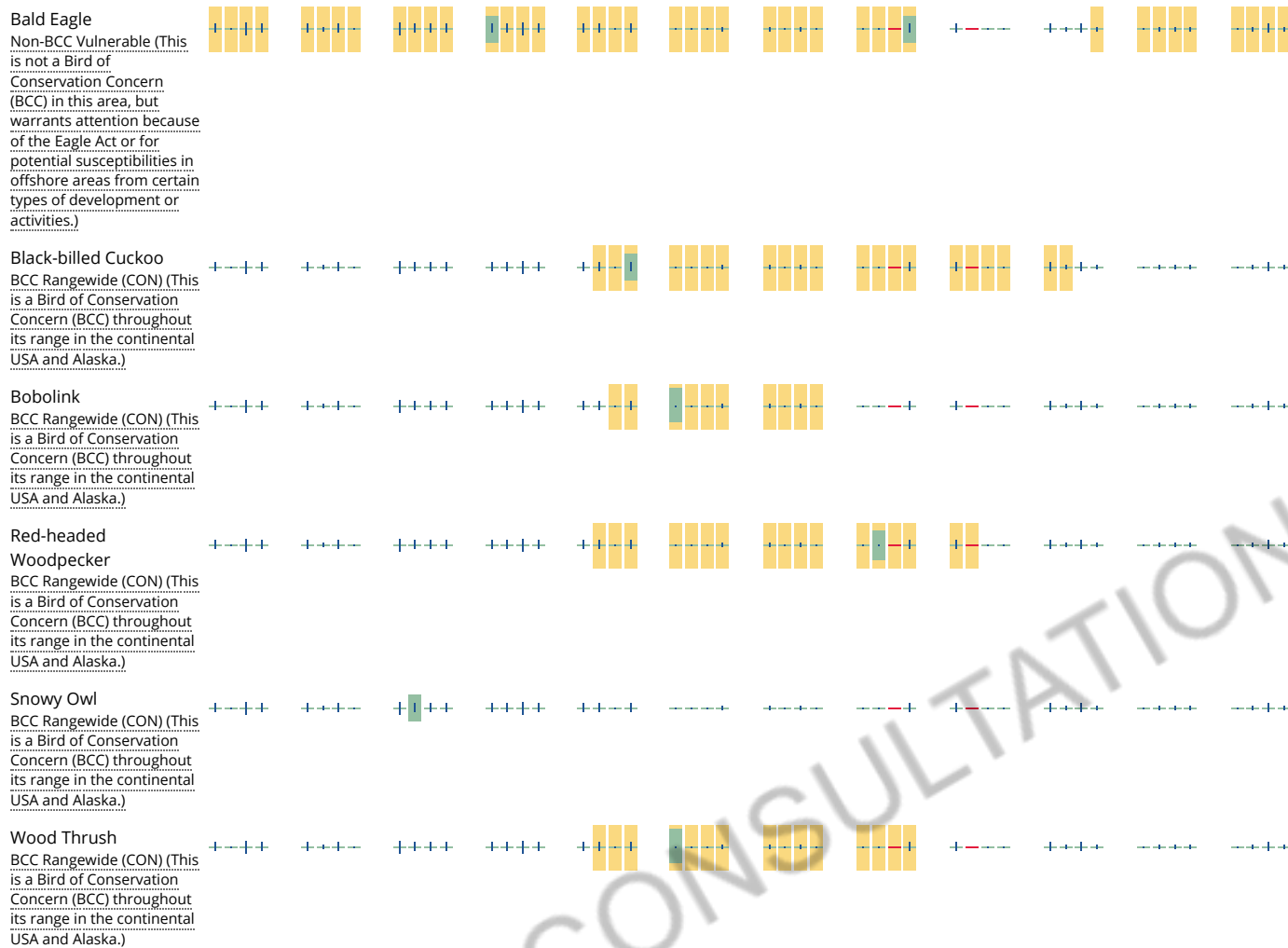
A week is marked as having no data if there were no survey events for that week.

### 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.

■ probability of presence ■ breeding season | survey effort — no data

SPECIES JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC



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](#) and/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](#).

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

### 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 tubercid 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.

## **Appendix L – Historic Properties Documentation**



## Appendix M – Rainfall Gauge Recording

Use the table below to record the rainfall gauge readings at the beginning and end of each work day. An example table follows.

Day	Start time	End time	Day	Start time	End time	Day	Start time	End time
1			1			1		
2			2			2		
3			3			3		
4			4			4		
5			5			5		
6			6			6		
7			7			7		
8			8			8		
9			9			9		
10			10			10		
11			11			11		
12			12			12		
13			13			13		
14			14			14		
15			15			15		
16			16			16		
17			17			17		
18			18			18		
19			19			19		
20			20			20		
21			21			21		
22			22			22		
23			23			23		
24			24			24		
25			25			25		
26			26			26		
27			27			27		
28			28			28		
29			29			29		
30			30			30		
31			31			31		

Example Rainfall Gauge Recording

April 2020			May 2020			June 2020		
Day	7:00 am	4:400 pm	Day	7:00 am	4:00 pm	Day	7:00 am	4:00 pm
1	--	--	1	0.2	0	1	0	0.4
2	--	--	2	0	0	2	0	0
3	0	0	3	0.1	0.3	3	--	--
4	0	0.3	4	0	0	4	--	--
5	0	0	5	0	0	5	0	0

In this example (for only partial months), 0.25-inch rainfall inspections would have been conducted on April 4 and June 1.



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## SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES

### 1.1 *Operator(s) / Subcontractor(s)*

Operator(s):

**TBD**

Subcontractor(s):

**TBD**

Emergency 24-Hour Contact:

**TBD**

### 1.2 *Stormwater Team*

Site Inspections :

**TBD**

SWPPP Contact:

**Michael Dorman**

**Town of Plaistow**

**145 Main St.**

**Plaistow, NH 03865**

**Tel: (603) 382-1191 ex. 600**

## SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

### 2.1 Project/Site Information

#### Project Name and Address

Project/Site Name: **Plaistow Safety Complex**

Project Street/Location: **27 Elm St.**

City: **Plaistow**

State: **New Hampshire**

ZIP Code: **03865**

County or Similar Subdivision: **Rockingham**

#### Project Latitude/Longitude

(Use **one** of three possible formats, and specify method)

Latitude:

1. (degrees, minutes, seconds)

2. **42°50'22.13"N** (degrees, minutes, decimal)

3. N (decimal)

Longitude:

1. (degrees, minutes, seconds)

2. **71° 5'24.71"W** (degrees, minutes, decimal)

3. (decimal)

Method for determining latitude/longitude: **Google Earth**

☐ USGS topographic map (specify scale: \_\_\_\_\_)

☐ EPA Web site

☐ GPS

☒ Other (please specify): **Google Earth**

Horizontal Reference Datum:

☐ NAD 27

☐ NAD 83 or WGS 84

☒ Unknown

If you used a U.S.G.S topographic map, what was the scale? \_\_\_\_\_

#### Additional Project Information

Is the project/site located on Indian country lands, or located on a property of religious or cultural significance to an Indian tribe? ☐ Yes ☒ No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including the name of Indian reservation if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property: **Not Applicable**

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency (*e.g., natural disaster, extreme flooding conditions*), information substantiating its occurrence (*e.g., state disaster declaration*), and a description of the construction necessary to reestablish effective public services: **Not Applicable**

Are you applying for permit coverage as a "federal operator" as defined in Appendix A of the 2012 CGP? ☐ Yes ☒ No

**2.2 Discharge Information**

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)? ☒ Yes ☐ No

Are there any surface waters that are located within 50 feet of your construction disturbances?  
☒ Yes ☐ No



**Table 1 – Names of Receiving Waters**

Name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)	
1.	<b>Little River</b>
2.	
3.	
4.	
5.	
6.	

[Include additional rows as necessary.]

**Table 2 – Impaired Waters / TMDLs** (Answer the following for each surface water listed in Table 1 above)

	Is this surface water listed as "impaired"?	If you answered yes, then answer the following:			
		What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Title of the TMDL document	Pollutant(s) for which there is a TMDL
1.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>N/A</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<b>Northeast Regional Mercury TMDL</b>	<b>Mercury</b>
2.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		
6.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		

[Include additional rows as necessary.]

Describe the method(s) you used to determine whether or not your project/site discharges to an impaired water: **2012 List of All Impaired or Threatened Waters**

**Table 3 – Tier 2, 2.5, or 3 Waters** (Answer the following for each surface water listed in Table 1 above)

	Is this surface water designated as a Tier 2, Tier 2.5, or Tier 3 water? (see Appendix F)	If you answered yes, specify which Tier (2, 2.5, or 3) the surface water is designated as?
1.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Tier 2
2.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
6.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

### 2.3 *Nature of the Construction Activity*

#### General Description of Project

Provide a general description of the construction project:

**The project consists of the earthwork and construction required to build an addition to the existing building. Work also involves the construction of a roadway, parking lot improvements, utility installations, and associated site work and landscaping.**

#### Size of Construction Project

What is the size of the property (in acres), the total area expected to be disturbed by the construction activities (in acres), and the maximum area expected to be disturbed at any one time?

**Combined Property Size: 1.77-Acres**

**Total Disturbance: +/- 1.8-Acres**

**Maximum Disturbance at Any One Time: +/- 1.8-Acres**

#### Construction Support Activities (only provide if applicable)

Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas)

**Not Applicable**

### 2.4 *Sequence and Estimated Dates of Construction Activities*

**Described below are the major construction activities that are the subject of this SWPPP. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control. All activities and the timeframe (beginning and ending dates) shall be recorded by the General Contractor:**

- 1. Install stabilized construction entrance. Exact location to be determined in the field.**
- 2. Cut and clear trees within the area of disturbance, unless otherwise noted.**
- 3. Set perimeter erosion controls. Place two rows of haybales at outlet from pond on Lot 41-45. Contractor is responsible to obtain temporary construction easement as required.**
- 4. Place PCB-8. Contractor to maintain and ensure existing entrance pipe from existing pond is operational at all time.**
- 5. Place 12-in HDPE from ECB to PCB-8.**
- 6. Remove existing ECB frame and grate and replace with manhole frame and cover.**
- 7. Grub all disturbed areas, strip and stockpile topsoil.**
- 8. Place/construct dewatering basin.**
- 9. Set sump in discharge end of dewatering basin. The sump will consist of utilizing slotted pipe and ¾" crushed stone. Filed conditions will dictate the pumps and power source. If dewatering is necessary**

during work hours only, 3"-4" trash pumps will be used, should field conditions dictate that continuous 24 hour pumping is necessary, a portable generator will be used along with electric pumps.

10. Place end of discharge hose from dewatering basin in PCB-8. Discharge end of hose to be equipped with silt sack.
11. Dredge diversion swale. Starting at the dewatering basin and working toward the existing outlet at PCB-4. Diversion swale to be 2-FT deep and 4-FT wide. Contractor to place stone check dams 50=FT O.C.
12. Place PCB-4 and 12-IN HDPE to PCB-5 and discharge to diversion swale.
13. Place dewatering sumps as needed within existing pond. Discharge hoses to be directed to entrance side of sediment trap and equipped with silt sacks.
14. Dewatering should continue to allow for the placement of the crushed stone subsurface detention system and all related piping and structured.
15. Upon completion of all dewatering activities, the temporary basin and sumps will be removed and backfilled.
16. Install subsurface drainage system to maintain connection between existing wetlands.
17. Rough grade. All slopes shall be stabilized immediately after grading. All disturbed areas shall be stabilized no later than 72-hours after construction activities cease. If earthwork temporarily ceases on a portion of or on the entire site, and will not resume within 21-days, the area shall be stabilized. (Stabilize proposed pavement areas with compacted gravels and other disturbed areas with temporary grass seed). An area shall be considered stabile if one of the following has occurred:
  - A. Base course gravels have been installed in areas to be paved;
  - B. A minimum of 85% vegetated growth has been established;
  - C. A minimum of 3"of non-erosive material such as stone or rip-rap has been installed; or
  - D. Erosion control blankets have been properly installed.
18. Construct building addition.
19. Grade and pave driveways.
20. Inspect and maintain all erosion and sedimentation control measures periodically and immediately after storm events.
21. Complete permanent seeding and landscaping.
22. Remove temporary erosion control measures once all areas are stabilized with a suitable stand of grass, pavement or compacted gravels.

## 2.5 Allowable Non-Stormwater Discharges

### List of Allowable Non-Stormwater Discharges Present at the Site

Type of Allowable Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire hydrant flushings	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Landscape irrigation	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Waters used to wash vehicles and equipment	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Water used to control dust	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Potable water including uncontaminated water line flushings	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Routine external building wash down	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Pavement wash waters	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Uncontaminated air conditioning or compressor condensate	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Foundation or footing drains	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Construction dewatering water	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

## 2.6 Site Maps

[See Appendix A](#)

## SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS

### 3.1 *Endangered Species Protection*

#### Eligibility Criterion

Under which criterion listed in Appendix D are you eligible for coverage under this permit?

☐ A      ☐ B      ☒ C      ☐ D      ☐ E

For reference purposes, the eligibility criteria listed in Appendix D are as follows:

- Criterion A.** No federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's "action area" as defined in Appendix A of this permit.
- Criterion B.** The construction site's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under eligibility Criterion A, C, D, E, or F and there is no reason to believe that federally-listed species or federally-designated critical habitat not considered in the prior certification may be present or located in the "action area". To certify your eligibility under this Criterion, there must be no lapse of NPDES permit coverage in the other operator's certification. By certifying eligibility under this Criterion, you agree to comply with any effluent limitations or conditions upon which the other operator's certification was based. You must include in your NOI the tracking number from the other operator's notification of authorization under this permit. If your certification is based on another operator's certification under Criterion C, you must provide EPA with the relevant supporting information required of existing dischargers in Criterion C in your NOI form.
- Criterion C.** Federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your site's "action area," and your site's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. This determination may include consideration of any stormwater controls and/or management practices you will adopt to ensure that your discharges and discharge-related activities are not likely to adversely affect listed species and critical habitat. To make this certification, you must include the following in your NOI: 1) any federally listed species and/or designated habitat located in your "action area"; and 2) the distance between your site and the listed species or designated critical habitat (in miles). You must also include a copy of your site map with your NOI.
- Criterion D.** Coordination between you and the Services has been concluded. The coordination must have addressed the effects of your site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat, and must have resulted in a written concurrence from the relevant Service(s) that your site's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.
- Criterion E.** Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. The consultation must have addressed the effects of the construction site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat. The result of this consultation must be either:

- i. a biological opinion that concludes that the action in question (taking into account the effects of your site's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, nor the destruction or adverse modification of critical habitat; or
- ii. written concurrence from the applicable Service(s) with a finding that the site's discharges and discharge-related activities are not likely to adversely affect federally-listed species or federally-designated habitat.

You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

**Criterion F.** Your construction activities are authorized through the issuance of a permit under section 10 of the ESA, and this authorization addresses the effects of the site's discharges and discharge-related activities on federally-listed species and federally-designated critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

### Supporting Documentation

Provide documentation for the applicable eligibility criterion you select in Appendix D, as follows:

**For criterion D, E, or F,** attach copies of any letters or other communication between you and the U.S. Fish & Wildlife Service or National Marine Fisheries Service concluding consultation or coordination activities. **Copies of correspondence with Fish and Wildlife and the Army Corps of Engineers is attached.**

## 3.2 Historic Preservation

### Appendix E, Step 1

Do you plan on installing any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- ☐ Dike
- ☐ Berm
- ☒ Catch Basin
- ☐ Pond
- ☒ Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- ☒ Culvert
- ☒ Other type of ground-disturbing stormwater control:

### Appendix E, Step 2

If you answered yes in Step 1, have prior surveys or evaluations conducted on the site already determined that historic properties do not exist, or that prior disturbances at the site have precluded the existence of historic properties? ☒ YES ☐ NO

- If yes, no further documentation is required for Section 3.2 of the Template.
- If no, proceed to Appendix E, Step 3.

### Appendix E, Step 3

If you answered no in Step 2, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? ☐ YES ☐ NO

If yes, provide documentation of the basis for your determination. INSERT REFERENCES TO DOCUMENTS, STUDIES, OR OTHER SOURCES RELIED UPON

If no, proceed to Appendix E, Step 4.

### Appendix E, Step 4

If you answered no in Step 3, did the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other tribal representative (whichever applies) respond to you within 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? ☐ YES ☐ NO

If no, no further documentation is required for Section 3.2 of the Template.

If yes, describe the nature of their response:

- ☐ Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions. INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE
- ☐ No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls. INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE
- ☐ Other: INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE APPLICABLE SHPO, THPO, OR OTHER TRIBAL REPRESENTATIVE

### 3.3 *Safe Drinking Water Act Underground Injection Control Requirements*

Do you plan to install any of the following controls? Check all that apply below.

- ☐ Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- ☒ Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow
- ☐ Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

## SECTION 4: EROSION AND SEDIMENT CONTROLS

A stabilized construction entrance will be provided at the entrance to the site and erosion controls will be provided along the project perimeter. Sediment traps will be provided in drainage structures as well. A dewatering system including pumps, sediment traps, check dams, and a dewatering basin will be implemented as necessary.

### 4.1 *Natural Buffers or Equivalent Sediment Controls*

#### Buffer Compliance Alternatives

Are there any surface waters within 50 feet of your project's earth disturbances? ☒ YES ☐ NO

The onsite area of surface water will be filled as part of the proposed work.

### 4.2 *Perimeter Controls*

#### General

Silt fence will be utilized along the down gradient perimeter of disturbance as needed to reduce the potential for erosion and sedimentation. Two rows of haybales will be placed on Lot 41-45 at the outlet to the detention pond. Contractor shall obtain a temporary construction easement as required.

#### Specific Perimeter Controls

##### Silt Fence

##### Installation Schedule

Silt fence shall be installation prior to tree and vegetation cutting activities..

##### Maintenance and Inspection

1. Silt fences should be inspected immediately after each rainfall event of 1-inch or greater, and at least daily during prolonged rainfall. Inspect the depth of sediment, fabric tears, if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground. Repair or replace as necessary.
2. Remove sediment deposits promptly after storm events to provide adequate storage volume for the next rain and to reduce pressure on the fence. Sediment will be removed from behind the sediment fence when it becomes about ½ foot deep at the fence. Take care to avoid undermining fence during cleanout.
3. If the fabric tears, decomposes, or in any way becomes ineffective, replace it immediately.
4. Remove all fencing materials after the contributing drainage area has been properly stabilized. Sediment deposits remaining after the fabric has been removed should be graded to conform with the existing topography and vegetated.



#### 4.3 *Sediment Track-Out*

##### **Stabilized Construction Exits**

###### Installation Schedule

The stabilized construction exit shall be installed prior to onsite activities.

###### Maintenance and Inspection

The exit should be maintained in a condition that will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic topdressing with additional stone. Remove mud and sediment tracked or washed onto public road immediately. Reshape pad as needed for drainage and runoff control. Repair any broken road pavement immediately. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after the temporary practices are no longer needed. Trapped sediment shall be removed or stabilized on site.

Inspect the exit pad and sediment disposal area weekly and after heavy rains or heavy use.

#### 4.4 *Stockpiled Sediment or Soil*

##### **Mulching and Netting**

###### Installation Schedule

Mulching will provide immediate protection to exposed soils during the period of short construction delays, or over winter months through the application of plant residues, or other suitable materials, to exposed soil areas. In areas which have been seeded either for temporary or permanent cover, mulching should immediately follow seeding. On steep slopes, mulch must be supplemented with netting. The preferred mulching material is straw.

Straw has been found to be one of the most effective organic mulch materials. The specifications for straw are described below, but other material may be appropriate. The straw should be air-dried; free of undesirable seeds & coarse materials. The application rate per 1,000 sq.ft. is 90-100 lbs. (2-3 bales) and the application rate per acre is 2 tons (100-120 bales). The application should cover about 90% of the surface. The use of straw mulch is appropriate where mulch is maintained for more than three months. Straw mulch is subject to wind blowing unless anchored. It is the most commonly used mulching material, and has the best microenvironment for germinating seeds.

###### Maintenance and Inspection

1. Inspect after rainstorms to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, repair surface, reseed, remulch, and install new netting.
2. Straw or grass mulches that blow or wash away should be repaired promptly.
3. If plastic netting is used to anchor mulch, care should be taken during initial mowings to keep the mower height high. Otherwise, the netting can wrap up on the mower blade shafts. After a period of time, the netting degrades and becomes less of a problem.
4. Continue inspections until vegetation is well established.

#### 4.5 *Minimize Dust*

Standard industry practices will be utilized at the project site to control dust generation including a water truck, sweeper, and stone at construction entrances. Dust control measures will be applied to disturbed and work areas as necessary. The Operator will be required to provide equipment to blanket disturbed areas with moisture or sweep, as necessary. Site housekeeping practices will be employed to remove dust and debris from paved and concrete surfaces.

#### 4.6 Minimize the Disturbance of Steep Slopes

##### Geotextiles

##### Installation Schedule As Needed

##### Maintenance and Inspection

Geotextiles such as jute netting will be used in combination with other practices such as mulching to stabilize slopes. The following geotextile materials or equivalent are to be utilized for structural and nonstructural controls as shown in the following table.

Practice	Manufacturer	Product	Remarks
Construction Entrance	Mirafi	Spun Bound 1135 or 600X or Approved Equal	
Sediment Fence	Mirafi	100X or Approved Equal	
Erosion Control (slope stability)	N.A. Green	SC-150 or Approved Equal	

Netting and matting require firm, continuous contact between the materials and the soil. If there is no contact, the material will not hold the soil and erosion will occur underneath the material. In the field, regular inspections should be made to check for cracks, tears, or breaches in the fabric. The appropriate repairs should be made.

#### 4.7 Topsoil

The contractor shall make all reasonable efforts to preserve and reuse any top soil disturbed during earthwork operations. Topsoil stockpiles shall not be as far from stormwater controls as is practicable.

#### 4.8 Soil Compaction

Upon final grading and placement of permanent seed, the contractor shall make all reasonable efforts to avoid construction equipment tracking and soil compaction of finalized surface.

#### 4.9 Storm Drain Inlets

##### Sediment Traps

The site map in Appendix A includes the location for the placement of storm drain inlet protection the project frontage.

##### Installation Schedule

Ultra-Drainguard should be installed prior to any earth moving operations.

##### Maintenance and Inspection

Sediment should be removed from the trapping device after the sediment has reached a maximum of one half the depth of the bag. All structures should be inspected after every rain storm and repairs made as necessary.

4.10 *Constructed Stormwater Conveyance Channels - Not Applicable*

4.11 *Sediment Basins - Not Applicable*

4.12 *Chemical Treatment - Not Applicable*

4.13 *Dewatering Practices –*

Surface and subsurface water seepage shall be prevented from entering the excavations by collecting the water. Divert the water to settling basins or other approved equipment required to reduce the amount of fine particles before discharge into drainage pipes and natural water courses. If a drainage system or water course is silted or becomes blocked due to dewatering operation, it shall be cleaned by the Contractor at no additional cost to the Owner.

Water pumped or drained from the construction site shall be disposed of in a suitable manner to avoid public nuisance, injury to public health, damage to public and private property, and damage to the work completed or in progress.

Water discharged from construction and dredging operations shall be directed to sediment settling facilities, sediment filtration devices, or other treatment system or device accepted by the Engineer, prior to discharge to adjacent water courses.

Suitable temporary channels for water are to be provided that may flow along or across the construction site.

Ground or surface water shall not be allowed to enter piped utilities, except where the Owner specifically allows the use of storm drains for receiving such discharges.

Effluent from dewatering operations shall not be discharged directly to wetlands or waterways and shall not be discharged to storm drain systems prior to being filtered through a siltation basin.

Discharge shall be such that no erosion occurs.

After the temporary works have served their purposes, the Contractor shall remove them or level and grade them to the extent required by the plans and to prevent any obstruction of the flow of water or any other interference with the operation of or access to the permanent work.

4.14 *Other Stormwater Controls - Reserved*

4.15 *Site Stabilization*

Site Stabilization Practice (only use this if you are not located in an arid, semi-arid, or drought-stricken area)

☒ Vegetative ☐ Non-Vegetative  
☒ Temporary ☐ Permanent

**Temporary Seeding**

**Installation Schedule**

1. Planting should preferably be done between April 1<sup>st</sup> and June 30<sup>th</sup>, and September 1<sup>st</sup> through September 30<sup>th</sup>. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1<sup>st</sup> and March 31<sup>st</sup>, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.
2. Before seeding, install structural practice controls. Utilize Amoco supergrow or equivalent.

3. The seedbed should be firm with a fairly fine surface. Perform all cultural operations across or at right angles to the slope. A minimum of 2 to 4-inches of tilled topsoil is required. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content.
4. Apply uniformly 2 tons of ground limestone per acre (100 lbs. Per 1,000 sq.ft.) or according to soil test. Apply uniformly 10-10-10 analysis fertilizer at the rate of 400 lbs. per acre (14 lbs. per 1,000 sq.ft.) or as indicated by soil test. Forty percent of the nitrogen should be in organic form. Work in lime and fertilizer to a depth of 4-inches using any suitable equipment.
5. Select the appropriate seed species for temporary cover from the following table and apply by hydroseeding, broadcasting, or by hand.

Species	Seeding Rate (lbs/1,000 - SF)	Seeding Rate (lbs/acre)	Recommended Seeding Dates	Seed Cover required
Annual Ryegrass	1	40	April 1 <sup>st</sup> to June 1 <sup>st</sup> August 15 <sup>th</sup> to Sept. 15 <sup>th</sup>	¼ inch
Foxtail Millet	0.7	30	May 1 <sup>st</sup> to June 30 <sup>th</sup>	½ to ¾ inch
Oats	2	80	April 1 <sup>st</sup> to July 1 <sup>st</sup> August 15 <sup>th</sup> to Sept. 15 <sup>th</sup>	1 to 1-½ inch
Winter Rye	3	120	August 15 <sup>th</sup> to Oct. 15 <sup>th</sup>	1 to 1-½ inch

6. Use an effective mulch, such as clean grain straw; tacked and/or tied with netting to protect seedbed and encourage plant growth.

#### Maintenance and Inspection

1. Inspect within 6 weeks of planting to see if stands are adequate. Check for damage within 24 hours of the end of a heavy rainfall, defined as a 2-year storm event (i.e., 3.2 inches of rainfall within a twenty-four hour period). Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.
2. Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather. Water application rates should be controlled to prevent runoff.

**Site Stabilization Practice** (only use this if you are located in an arid, semi-arid, or drought-stricken area)

- ☒ *Vegetative* ☐ *Non-Vegetative*  
☐ *Temporary* ☒ *Permanent*

#### **Permanent Seeding**

#### Installation Schedule

1. In infertile or coarse-textured subsoil, it is best to stockpile topsoil and respread it over the finished slope at a minimum 2 to 6-inch depth and roll it to provide a firm seedbed. The topsoil must have a sandy loam to silt loam texture with 15% to 20% organic content. If construction fill operations have left soil exposed with a loose, rough, or irregular surface, smooth with blade and roll.
2. Loosen the soil to a depth of 3-5 inches with suitable agricultural or construction equipment.
3. Areas not to receive topsoil shall be treated to firm the seedbed after incorporation of the lime and fertilizer so that it is depressed no more than ½ - 1 inch when stepped on with a shoe. Areas to receive topsoil shall not be firmed until after topsoiling and lime and fertilizer is applied and incorporated, at which time it shall be treated to firm the seedbed as described above.
4. Select an appropriate cool or warm season grass based on site conditions and seeding date. Apply the seed uniformly by hydroseeding, broadcasting, or by hand. Uniform seed distribution is essential. On steep slopes, hydroseeding may be the most effective seeding method. Surface roughening is particularly important when preparing slopes for hydroseeding.
5. Lime and fertilize.

6. Mulch the seedings with straw applied at the rate of ½ tons per acre. Anchor the mulch with erosion control netting or fabric on sloping areas. Amoco supergrow or equivalent should be utilized.

**Maintenance and Inspection**

1. Frequently inspect seeded areas for failure and make necessary repairs and reseed immediately. Conduct a follow-up survey after one year and replace failed plants where necessary.
2. If vegetative cover is inadequate to prevent rill erosion, overseed and fertilize in accordance with soil test results.
3. If a stand has less than 40% cover, re-evaluate choice of plant materials and quantities of lime and fertilizer. Re-establish the stand following seedbed preparation and seeding recommendations, omitting lime and fertilizer in the absence of soil test results. If the season prevents resowing, mulch or jute netting is an effective temporary cover.
4. Seeded areas should be fertilized during the second growing season. Lime and fertilize thereafter at periodic intervals, as needed.

**Site Stabilization Practice** (only use this if uncontrollable circumstances have delayed the initiation or completion of stabilization)

(Note: You will not be able to include this information in your initial SWPPP. If you are affected by circumstances such as those described in CGP Part 2.2.1.3.b, you will need to modify your SWPPP to include this information.)

- ☐ *Vegetative* ☐ *Non-Vegetative*  
☐ *Temporary* ☐ *Permanent*

**Reserved**

## SECTION 5: POLLUTION PREVENTION STANDARDS

### 5.1 *Potential Sources of Pollution*

#### Construction Site Pollutants

##### Material Handling and Waste Management

All waste materials will be collected and stored in a securely lidded metal dumpster located more than 100 feet from any resource area as is reasonable practical. The dumpster will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these practices are followed.

##### Establish Proper Building Material Staging Areas

General Contractor is responsible to establish properly located and maintained building material staging areas to minimize exposure of the materials to the stormwater.

##### Designate Washout Areas

General Contractor is responsible to establish and maintain designated washout areas to avoid any discharge to the stormwater management system.

##### Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

General Contractor is responsible to establish proper equipment / vehicle fueling and maintenance practices to avoid any discharge of pollutants to the stormwater management system.

##### Control Equipment / Vehicle Washing

General Contractor is responsible to develop controlled equipment/vehicle washing practices that will be implemented to avoid any discharge of pollutants to the stormwater management system.

### 5.2 *Spill Prevention and Response*

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:

1. An effort will be made to store only the amount of material required to do the job.
2. All materials stored onsite will be stored in an orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
3. Products will be kept in their original containers with the original manufacturer's label.
4. Substances will not be mixed with one another unless recommended by the manufacturer.
5. Whenever possible, all of a product will be used up before disposing of the container.
6. Manufacturer's recommendations for proper use and disposal will be followed.
7. The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.
8. Products will be kept in the original containers unless they are not re-sealable.
9. Original labels and material safety data will be retained; they contain important product information.
10. If surplus product must be disposed of, manufacturers or local and State recommended methods for proper disposal will be followed.

11. **Petroleum Products** – All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.
12. **Paints** – All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be properly disposed of according to the manufacturer's instructions or State and local regulations.
13. **Fertilizers** – Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
14. **Concrete Trucks** - Concrete Trucks will not be allowed to wash out or discharge surplus concrete or drum wash water on the site.

### 5.3 *Fueling and Maintenance of Equipment or Vehicles* - See Section 5.1

#### Specific Pollution Prevention Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and clean-up:

1. Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
2. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
3. All spills will be cleaned up immediately upon discovery.
4. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
5. Spills of toxic or hazardous substances will be reported to the appropriate State or local government agency, regardless of the size.
6. The spill prevention plan will be adjusted to include measure to prevent this type of spill from reoccurring and how to clean up the spill if there should be another. A description of the spill, what caused it, and the cleanup measure will also be included.
7. The Site Superintendent responsible for the day-to-day site operation will be the spill prevention and cleanup coordinator.

### 5.4 *Washing of Equipment and Vehicles* - See Section 5.1

### 5.5 *Storage, Handling, and Disposal of Construction Products, Materials, and Wastes* - See Section 5.1

### 5.6 *Washing of Applicators and Containers used for Paint, Concrete or Other Materials*- See Section 5.1

### 5.7 *Fertilizers* - See Section 5.1

### 5.8 *Other Pollution Prevention Practices* - Reserved

## SECTION 6: INSPECTION AND CORRECTIVE ACTION

### 6.1 *Inspection Personnel and Procedures*

#### Site inspections to be performed by:

TBD

Between the time this SWPPP is implemented and final Notice of Termination has been submitted, all disturbed areas and pollutant controls must be inspected at least once seven (7) calendar days OR at least once every fourteen (14) calendar days AND within 24-hours of a rain fall event in excess of 0.25-IN. The frequency of the site inspections may be reduced to once per month upon either temporary stabilization of the entire site or winter construction conditions occur (e.g., site is covered with snow, ice, or the ground is frozen). The purpose of site inspections is to assess performance of pollutant controls. The inspections will be conducted by the individual or entity listed above. Based on these inspections, the General Contractor will decide whether it is necessary to modify this SWPPP, add or relocate controls, or revise or implement additional Best Management Practices in order to prevent pollutants from leaving the site via stormwater runoff. The General Contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or take additional steps as necessary in order to achieve effective pollutant control.

The Inspection Report Form (see Appendix D) must identify all deficiencies, any corrections, whether they are identified during the current inspection or have occurred since the previous inspection, and any additional comments. The report shall clearly note the rainfall total as reported by the nearest rain gauge. Based on inspection results, any modification necessary to increase effectiveness of this SWPPP to an acceptable level must be made within seven calendar days of the inspection. The inspection reports must be complete and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

A responsible corporate officer for the Operator must sign a letter delegating authority to the inspector noted above to conduct the required inspections. The authorization forms have been included on Appendix J. Inspector's qualifications must be entered on the Inspection Report Form. Inspection reports must include an original, authorized signature and date of the inspection. Inspection reports must be retained by the General Contractor as an integral part of this SWPPP for at least five years from the date of submission of the Notice of Termination of permit coverage.

Ultimately, it is the responsibility of the General Contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the plans. Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization

Inspection Report Forms – [See Appendix D](#)

### 6.2 *Corrective Action*

Personnel Responsible for Corrective Actions – [Operator](#)

Corrective Action Forms – [See Appendix E](#)



6.3 *Delegation of Authority* – See Appendix J

Duly Authorized Representative(s) or Position(s):

TBD

SECTION 7: TRAINING

Table 7-1: Documentation for Completion of Training

Name	Date Training Completed

## SECTION 8: CERTIFICATION AND NOTIFICATION

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Appendix A – Site Maps



DATE OF ENDORSEMENT \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DESCRIBED BELOW IS THE CONSTRUCTION SEQUENCING FOR THE PLACEMENT OF THE DEWATERING BASIN. THEY ARE PRESENTED IN THE ORDER (OR SEQUENCE) THEY ARE EXPECTED TO BEGIN, BUT EACH ACTIVITY WILL NOT NECESSARILY BE COMPLETED BEFORE THE NEXT ACTIVITY BEGINS. ALSO, THESE ACTIVITIES COULD OCCUR IN A DIFFERENT ORDER IF NECESSARY TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL. ALL ACTIVITIES AND THE TIME FRAME (BEGINNING AND ENDING DATES) SHALL BE RECORDED BY THE GENERAL CONTRACTOR.

1. CONTRACTOR TO REVIEW ALL LOCAL, STATE AND FEDERAL PERMITS AND CONDITIONS THEREOF.
2. REVIEW AND CERTIFY THE STORMWATER POLLUTION PREVENTION PLAN AND GENERAL CONSTRUCTION EROSION CONTROL PLAN.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE. EXACT LOCATION TO BE DETERMINE IN THE FIELD.
4. PERFORM TREE AND VEGETATION CUTTING ACTIVITIES WITHIN THE LIMITS ILLUSTRATED ON THE PROJECT PLANS.
5. CONDUCT EROSION CONTROLS. PLACE TWO PWS OF HAYBALES AT OUTLET FROM POND ON LOT 41-43. CONTRACTOR IS RESPONSIBLE TO OBTAIN TEMPORARY CONSTRUCTION EASEMENT AS REQUIRED.
6. PLACE POB-B. CONTRACTOR TO MAINTAIN AND ENSURE EXISTING ENTRANCE PIPE FROM EXISTING SEWER MAIN TO POND.
7. PLACE 12-IN HOPE FROM ECB TO POB-B.
8. REMOVE EXISTING ECB FRAME AND GRATE AND REPLACE WITH MANHOLE FRAME AND COVER.
9. GRUB ALL DISTURBED AREAS, STRIP AND STOCKPILE TOPSOIL.
10. PLACE AND CONSTRUCT DIVERSION SWALE.
11. SLOTTED PIPE AND 3" CRUSHED STONE FIELD CONDITIONS WILL DICTATE THE PUMPS AND POWER SOURCE. IF DE-WATERING IS NECESSARY DURING WORK HOURS ONLY, 3" - 4" TRASH PUMPS WILL BE USED. SHOULD FIELD CONDITIONS DICTATE THAT CONTINUOUS 24 HOUR PUMPING IS NECESSARY, A 4" TRASH GENERATOR WILL BE USED ALONG WITH ELECTRIC PUMPS.
12. PLACE AND CONSTRUCT HOSE FROM DE-WATERING BASIN TO POB-B. DISCHARGE END OF HOSE TO BE EQUIPPED WITH SILT SACK.
13. DREDGE DIVERSION SWALE. STARTING AT THE DE-WATERING BASIN AND WORKING TOWARD THE EXISTING OUTLET AT POB-A. DIVERSION SWALE TO BE 2-FT DEEP AND 4-FT WIDE.
14. PLACE POB-B AND 12-IN HOPE TO POB-B AND DISCHARGE TO DIVERSION SWALE.
15. PLACE DE-WATERING SIPS AS NEEDED WITHIN EXISTING POND. DISCHARGE HOSES TO BE DIRECTED TO ENTRANCE SIDE OF SEDIMENT TRAP AND EQUIPPED WITH SILT SACKS.
16. CONDUCT ALL NECESSARY CONSTRUCTION ACTIVITIES TO REPAIR AND CRUSHED STONE SUBSURFACE DETENTION SYSTEM AND ALL RELATED PIPING AND STRUCTURES.
17. UPON COMPLETION OF ALL DE-WATERING ACTIVITIES, THE TEMPORARY BASIN AND SUMPS WILL BE REMOVED AND BACKFILLED.

**TOWN OF PLAISTOW, NH**  
**145 MAIN STREET**  
**PLAISTOW, NH 03865**

# PLAISTOW SAFETY COMPLEX

DATE ISSUED:	JULY 22, 2016
--------------	---------------

PREPARED BY:	AKG
--------------	-----

07/22/16

**PROFESSIONAL ENGINEER FOR CIVIL DESIGN  
CONSULTANTS, INC.**

**SURVEY • DESIGN • PERMITTING • CONSTRUCTION ADMINISTRATION**

## EROSION AND SEDIMENT CONTROL PLAN

7C

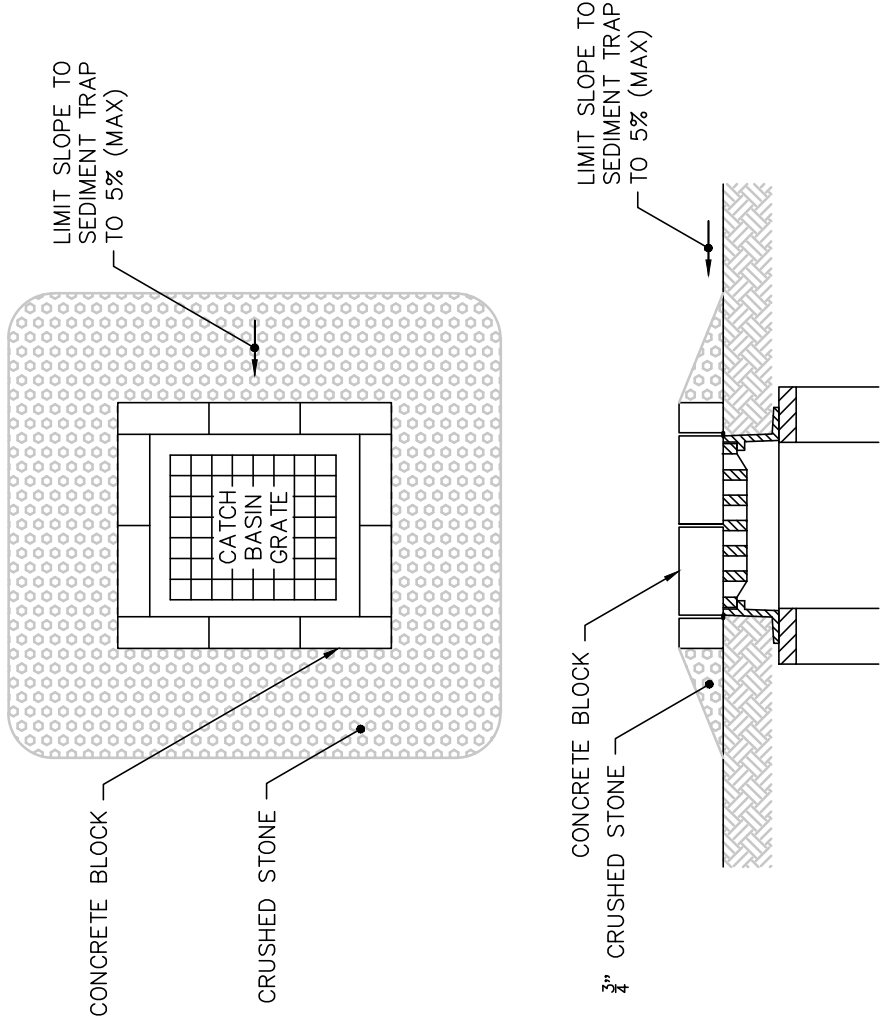
The diagram illustrates the construction of a rock rip-rap apron. The **PLAN VIEW** (top) shows a rectangular structure with a central area of **CRUSHED STONE** (12" x 12") and a **SEDIMENT TRAP** (3H:1V MAX) on the left. The structure is bordered by **12" OF 6" ROCK RIP-RAP APRON AT HOSE OUTLET** and **12" OF 6" ROCK RIP-RAP SET OF FILTER FABRIC MIRAFI 140N (OR APPROVED EQUAL)**. The overall dimensions are 15' (MIN) by 10' (MIN). The **PLAN VIEW** is labeled **NOT TO SCALE**. The **PLAN VIEW** (bottom) shows a cross-section of the structure, including the **DISCHARGE HOSE FROM DE-WATERING SUMP**, **EX. GRADE**, and **8" (MIN)** and **6" (MIN)** dimensions. The **PLAN VIEW** is labeled **NOT TO SCALE**.

NOTES:

1. ALL DISTURBED AREAS TO BE STABILIZED WITHIN 72-HOURS OF THE COMPLETION OF THE CONSTRUCTION OF THE STRUCTURE.

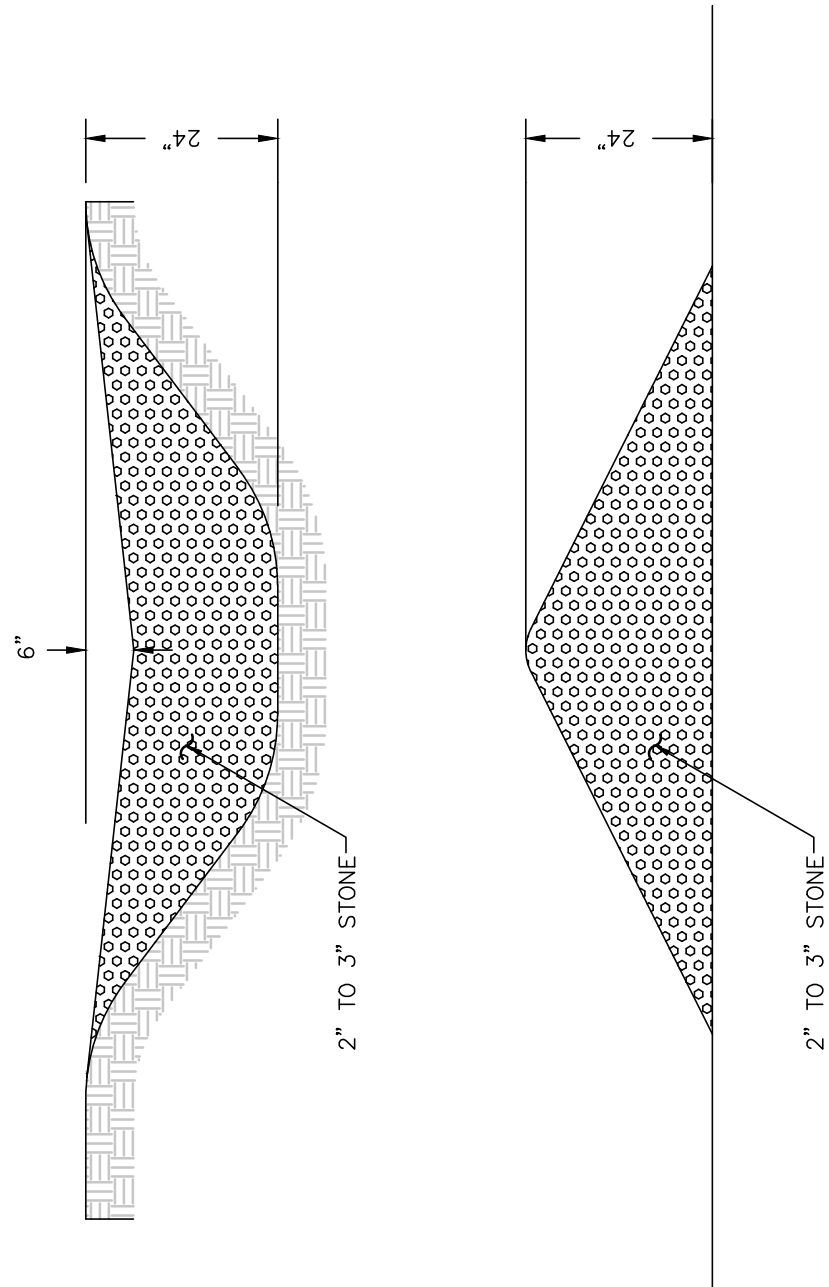
1. ALL DISTURBED AREAS TO BE STABILIZED WITHIN 72-HOURS OF THE COMPLETION OF THE STRUCTURE.
2. SEDIMENT TRAP SHALL BE INSPECTED AT WEEKLY DURING CONSTRUCTION AND AFTER EVERY STORM (OR DAILY DURING PROLONGED DE-WATERING ACTIVITIES), TO INSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE NOT DAMAGED. REPAIRS SHOULD BE MADE IMMEDIATELY.
3. SEDIMENT SHOULD BE REMOVED AND THE TRAP RESTORED TO ORIGINAL CAPACITY WHEN SEDIMENT HAS ACCUMULATED TO 50% OF THE ORIGINAL VOLUME.
4. THE MATERIALS REMOVED FROM THE TRAP SHOULD BE PROPERLY DISPOSED OF AND STABILIZED.
5. SEDIMENT TRAP OUTLETS SHOULD BE EXAMINED AT THE TIME OF INSPECTION FOR ANY DAMAGE, AND REPAIRED IMMEDIATELY IF ANY SUCH DAMAGE IS OBSERVED.

NOT TO SCALE



1. DROP INLET SEDIMENT BARRIERS TO BE USED FOR SMALL, NEARLY LEVEL (> 5%) DRAINAGE AREAS.
2. DRAINAGE DIKE SHALL BE CONSTRUCTED TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.
3. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

NOT TO SCALE



1. STONE CHECK DAMS SHOULD BE MAINTAINED CONSISTENT WITH THE PROCEDURE AND SCHEDULE OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN.
2. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
3. STRUCTURES SHALL BE REMOVED FROM UPON SITE STABILIZATION.

NOT TO SCALE



## Appendix B – Copy of 2012 CGP

## Appendix C – Copy of NOI and EPA Authorization email

Company: Town of Plaistow, NH  
ATTN: Michael Dorman  
145 Main St.  
Plaistow NH 03865

Project/Site: Plaistow Safety Complex  
27 Elm St.  
Plaistow NH 03865

Permit Tracking Number: NHR12AN71

This email acknowledges that a complete Notice of Intent (NOI) form seeking coverage under EPA's Construction General Permit (CGP) is now active. Your NOI was completed and submitted on Wednesday, August 10, 2016. Coverage under this permit began at the conclusion of your 14 day waiting period on Thursday, August 25, 2016, unless otherwise notified by EPA.

For tracking purposes, the following number has been assigned to your NOI form:NHR12AN71. Attached to this email, you will find an electronic copy of your completed NOI which should be posted at your site.

As stated above, this email acknowledges receipt of a complete NOI. However, it is not an EPA determination of the validity of the information you provided. Your eligibility for coverage under this permit is based on the validity of the certification you provided. Your electronic signature on this form certifies that you have read, understood, and are implementing all of the applicable requirements. An important aspect of this certification requires that you have correctly determined whether you are eligible for coverage under this permit.

As you know, the CGP requires you to have developed a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. The CGP also includes specific requirements for erosion and sediment control, stabilization, pollution prevention, inspections, corrective actions, and staff training. You must also comply with any additional location-specific requirements applicable to your state or tribal area as described in the CGP. Note that a copy of the CGP must be kept with your SWPPP. An electronic copy of the CGP and additional guidance materials can be viewed and downloaded at: <https://www.epa.gov/npdes/stormwater-discharges-construction-activities#overview>.

You have indicated in your NOI that there are surface waters that exist within or immediately adjacent to your site. Because of the proximity of these waters to your construction activities, be advised that you are required to comply with the buffer requirements in Part 2.1.2.1. This provision requires that you comply with one of the following three compliance alternatives:

- Provide and maintain a 50-foot buffer of undisturbed natural vegetation; or
- Provide and maintain an undisturbed naturally vegetated buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 50-foot buffer of undisturbed natural vegetation; or

- If it is infeasible to provide and maintain an undisturbed naturally vegetated buffer of any size, you must implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 50-foot buffer of undisturbed natural vegetation.

You must document the compliance alternative you have selected in your SWPPP, and comply with the applicable additional requirements described in Parts 2.1.2.1.b and 2.1.2.1.c.

If you have general questions regarding the stormwater program or your responsibilities under the CGP, please call your region contact. Regional contact email and phone number can be found at: <https://www.epa.gov/npdes/contact-us-stormwater#regional>


If you have questions about your NOI form, please call the EPA NOI Processing Center at 1-866-352-7755 (toll free) or send an email to [noi@avanticorporation.com](mailto:noi@avanticorporation.com).

If you have difficulty accessing CDX, please contact the CDX Help Desk at: (888) 890-1995.

You can return to the eNOI system using the following link at any time <https://cdx.epa.gov>.

EPA NOI Processing Center  
Operated by Avanti Corporation  
1200 Pennsylvania Ave., NW  
Mail Code: 4203M  
Washington, DC 20460  
1-866-352-7755



NPDES FORM 3510-9		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER AN NPDES GENERAL PERMIT	Form Approved. OMB Nos. 2040-0004
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Submission of this Notice of Intent (NOI) constitutes notice that the operator identified in Section II of this form requests authorization to discharge pursuant to the NPDES Construction General Permit (CGP) permit number identified in Section I of this form. Submission of this NOI also constitutes notice that the operator identified in Section II of this form meets the eligibility requirements of Parts 1.1 and 1.2 of the CGP for the project identified in Section III of this form. Permit coverage is required prior to commencement of construction activity until you are eligible to terminate coverage as detailed in Part 8 of the CGP. To obtain authorization, you must submit a complete and accurate NOI form. Discharges are not authorized if your NOI is incomplete or inaccurate or if you were never eligible for permit coverage. Refer to the instructions at the end of this form.

I. Approval to Use Paper NOI Form

Have you been given approval from the Regional Office to use this paper NOI form\*? Yes NO

If yes, provide the reason you need to use this paper form, the name of the EPA Regional Office staff person who approved your use of this form, and the date of approval:

Reason for using paper form:

Name of EPA staff person:

Date approval obtained:

\* Note: You are required to obtain approval from the applicable Regional Office prior to using this paper NOI form.

II. Permit Information: Tracking Number (EPA Use Only) NHR12AN71

Permit Number: NHR120000 (see Appendix B of the CGP for the list of eligible permit numbers)

III. Operator Information

Name: Town of Plaistow, NH

Phone: (603) 382-1191

Fax (Optional):

Email: mdorman@plaistow.com

IRS Employer Identification Number (EIN):

Point of Contact (First Name, Middle Initial, Last Name): Michael Dorman

Mailing Address:

Street: 145 Main St.

City: Plaistow

State: NH

Zip: 03865

NOI Preparer (Complete if NOI was prepared by someone other than the certifier):

Prepared by (First Name, Middle Initial, Last Name): James E Hanley

Organization: CIVIL DESIGN CONSULTANTS, INC.

Phone: (603) 275-5369

Fax (Optional):

E-mail: jhanley@civildci.com

IV. Project/Site Information					
Project/Site Name: <u>Plaistow Safety Complex</u>					
Project/Site Address:					
Street/Location:					
City: <u>Plaistow</u>		State: <u>NH</u>		Zip: <u>03865</u>	
County or similar government subdivision: <u>Rockingham</u>					
For the project/site for which you are seeking permit coverage, provide the following information:					
Latitude/Longitude (Use one of three possible formats, and specify method)					
Latitude 1. <u>42.50.22</u>		N(degrees, minutes, seconds)		Longitude 1. <u>71.5.25</u>	
2. _____		N(degrees, minutes, decimal)		2. _____	
3. _____		N(degrees, decimals)		3. _____	
Latitude/Longitude Data Source:		U.S.G.S topographical map		EPA Web Site	
				GPS	
				Other: Google Earth	
If you used a U.S.G.S. topographic map, what was the scale?					
Horizontal Reference Datum:		NAD 27		NAD 83 or WGS 84	
				Unknown	
Is your project located in Indian Country lands?		Yes		No	
If yes, provide the name of the Indian tribe associated with the area of Indian country (including name of Indian reservation, if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property:					
Are you requesting coverage under this NOI as a "federal operator" as defined in Appendix A?		Yes		No	
Estimated Project Start Date: 09/01/2016		Estimated Project Completion Date: 09/01/2017			
Estimated Area to be Disturbed (to the nearest quarter acre): 1.75					
Have earth-disturbing activities commenced on your project/site?		Yes		No	
If yes, is your project an emergency-related project?		Yes		No	
Have stormwater discharges from your project/site been covered previously under an NPDES permit?		Yes		No	
If yes, provide the Tracking Number if you had coverage under EPA's CGP or the NPDES permit number if you had coverage under an EPA individual permit:					
V. Discharge Information					
Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)?		Yes		No	
Are there any surface waters within 50 feet of your project's earth disturbances?		Yes		No	
Receiving Waters and Wetlands Information: (Attach a separate list if necessary)					
Surface water(s) to which discharge	Impaired Water	Listed Water Pollutant(s)	Tier 2, 2.5 or 3	Source	TMDL Name and Pollutant
Little River	No		Yes	NHDES Impaired Waters List	
Describe the methods you used to complete the above table: Please refer to the Source(s) in the above table.					
VI. Chemical Treatment Information					
Will you use polymers, flocculants, or other treatment chemicals at your construction site?		Yes		No	
If yes, will you use cationic treatment chemicals* at your construction site?		Yes		No	
If yes, have you been authorized to use cationic treatment chemicals by your applicable EPA Regional Office in advance of filing your NOI*?		Yes		No	

If you have been authorized to use cationic treatment chemicals by your applicable EPA Regional Office, attach a copy of your authorization letter and include documentation of the appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.		
Please indicate the treatment chemicals that you will use:		
* Note: You are ineligible for coverage under this permit unless you notify your applicable EPA Regional Office in advance and the EPA office authorizes coverage under this permit after you have included appropriate controls and implementation procedures designed to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards.		
VII. Stormwater Pollution Prevention Plan (SWPPP) Information		
Has the SWPPP been prepared in advance of filing this NOI?		Yes      No
SWPPP Contact Information:		
First Name, Middle Initial, Last Name: Michael Dorman		
Organization: Town of Plaistow, NH		
Phone: 6033821191		Fax (Optional):
E-mail: mdorman@plaistow.com		
VIII. Endangered Species Protection		
Using the instructions in Appendix D of the CGP, under which criterion listed in Appendix D are you eligible for coverage under this permit (only check 1 box)?		
A	B	C      D      E      F
Provide a brief summary of the basis for criterion selection listed in Appendix D (e.g., communication with U.S. Fish and Wildlife Service or National Marine Fisheries Service, specific study):U.S. Fish and Wildlife Service		
If you select criterion B, provide the Tracking Number from the other operator's notification of authorization under this permit:		
If you select criterion C, you must attach a copy of your site map (see Part 7.2.6 of the permit), and you must answer the following questions:		
What federally-listed species or federally-designated critical habitat are located in your "action area": Northern Long-eared Bat		
What is the distance between your site and the listed species or critical habitat (miles): 1		
If you select criterion D, E, or F, attach copies of any letters or other communications between you and the U.S. Fish and Wildlife Service or National Marine Fisheries Service.		
IX. Historic Preservation		
Is your project/site located on a property of religious or cultural significance to an Indian tribe?		Yes      No
If yes, provide the name of the Indian tribe associated with the property:		
Are you installing any stormwater controls as described in Appendix E that require subsurface earth disturbance? (Appendix E, Step 1)		Yes      No
If yes, have prior surveys or evaluations conducted on the site have already determined historic properties do not exist, or that prior disturbances have precluded the existence of historic properties? (Appendix E, Step 2)		Yes      No
If no, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? (Appendix E, Step 3)		Yes      No
If no, did the SHPO, THPO, or other tribal representative (whichever applies) respond to you within the 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? (Appendix E, Step 4)		Yes      No
If yes, describe the nature of their response:		
<input type="checkbox"/>	Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions.	
<input type="checkbox"/>	No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls.	
<input type="checkbox"/>	Other: _____	
X. 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

First Name, Middle Initial, Last Name: Michael Dorman

Title:

Signature:

Date: Wednesday, August 10, 2016

E-mail: mdorman@plaistow.com

## Appendix D – Copy of Inspection Form

## Stormwater Construction Site Inspection Report

General Information			
<b>Project Name</b>	<b>Plaistow Safety Complex</b>	<b>Field Report #:</b>	
<b>NPDES Tracking No.</b>		<b>Location</b>	<b>27 Elm St, Plaistow, NH 03865</b>
<b>Date of Inspection</b>		<b>Start/End Time</b>	
<b>Inspector's Name(s)</b>			
<b>Inspector's Title(s)</b>			
<b>Inspector's Contact Information</b>			
<b>Describe present phase of construction</b>			
<b>Type of Inspection:</b> <input type="checkbox"/> Regular <input type="checkbox"/> Pre-storm event <input type="checkbox"/> During storm event <input type="checkbox"/> Post-storm event			
Weather Information			
<b>Has there been a storm event since the last inspection?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If yes, provide:</b> Storm Start Date & Time:                      Storm Duration (hrs):                      Approximate Amount of Precipitation (in):			
<b>Weather at time of this inspection?</b> <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Rain <input type="checkbox"/> Sleet <input type="checkbox"/> Fog <input type="checkbox"/> Snowing <input type="checkbox"/> High Winds <input type="checkbox"/> Other:    Temperature:			
<b>Have any discharges occurred since the last inspection?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If yes, describe:</b>			
<b>Are there any discharges at the time of inspection?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>If yes, describe:</b>			

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Stabilized Construction Entrance	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Silt Fence	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Ultra-Drain Guard	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Mulching & Netting	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Geo-Textiles	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Temporary Seeding	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	Permanent Seeding	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	Sediment Forebay	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	Infiltration Basin	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	Other	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

## Overall Site Issues

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	Are perimeter controls and sediment barriers providing sufficient protection?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	Is the construction entrance preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	Is trash/litter from work areas collected and placed in covered dumpsters?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	Are there any signs observed indicating spills, leaks, or any other deleterious material?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

## General Comments

### CERTIFICATION STATEMENT

"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."

**Print name and title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

[illegible]



## Appendix F – SWPPP Amendment Log

[illegible]

## Appendix G – Subcontractor Certifications/Agreements

### SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Number: 16-1103

Project Title: Plaistow Safety Complex

Operator(s): \_\_\_\_\_

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

**I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.**

This certification is hereby signed in reference to the above named project:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Type of construction service to be provided: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix H – Grading and Stabilization Activities Log

[illegible]

## Appendix I – SWPPP Training Log

### Stormwater Pollution Prevention Training Log

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

Instructor's Name(s): \_\_\_\_\_

Instructor's Title(s): \_\_\_\_\_

Course Location: \_\_\_\_\_ Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Stormwater Training Topic: *(check as appropriate)*

☐ Sediment and Erosion Controls

☐ Emergency Procedures

☐ Stabilization Controls

☐ Inspections/Corrective Actions

☐ Pollution Prevention Measures

Specific Training Objective: \_\_\_\_\_

\_\_\_\_\_

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		

## Appendix J – Delegation of Authority Form

### Delegation of Authority

I, \_\_\_\_\_, hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at [Plaistow Safety Complex](#). The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

Designee:

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

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: \_\_\_\_\_

Company: \_\_\_\_\_

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

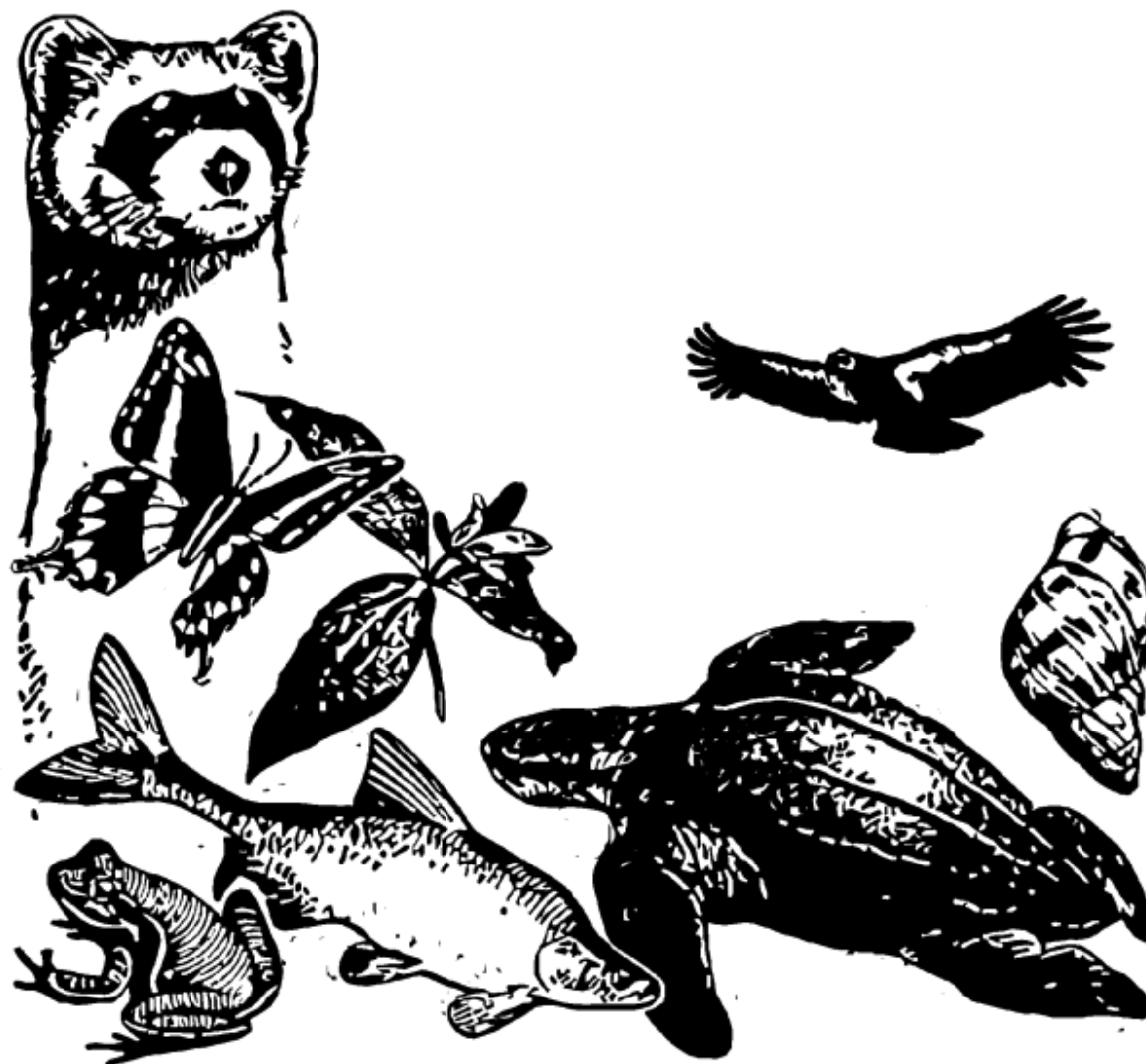
## Appendix K – Endangered Species Documentation

# Plaistow Safety Complex

## *IPaC Trust Resources Report*

Generated May 18, 2016 10:41 AM MDT, IPaC v3.0.7

This report is for informational purposes only and should not be used for planning or analyzing project level impacts. For project reviews that require U.S. Fish & Wildlife Service review or concurrence, please return to the IPaC website and request an official species list from the Regulatory Documents page.



# Table of Contents

IPaC Trust Resources Report .....	<a href="#"><u>1</u></a>
Project Description .....	<a href="#"><u>1</u></a>
Endangered Species .....	<a href="#"><u>2</u></a>
Migratory Birds .....	<a href="#"><u>3</u></a>
Refuges & Hatcheries .....	<a href="#"><u>5</u></a>
Wetlands .....	<a href="#"><u>6</u></a>



U.S. Fish & Wildlife Service

# IPaC Trust Resources Report

---



NAME

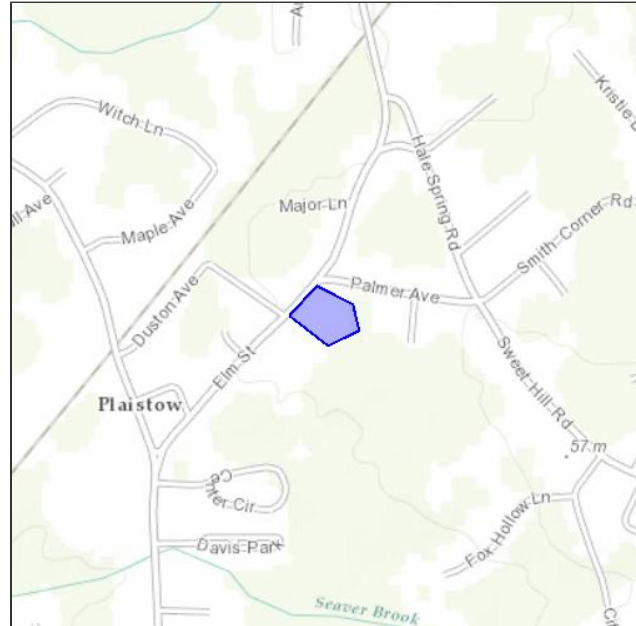
Plaistow Safety Complex

LOCATION

Rockingham County, New Hampshire

IPAC LINK

<https://ecos.fws.gov/ipac/project/HJKB4-EVLMZ-FXTCQ-CLSEY-NIXKPI>



## U.S. Fish & Wildlife Service Contact Information

Trust resources in this location are managed by:

### **New England Ecological Services Field Office**

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

## Endangered Species

Proposed, candidate, threatened, and endangered species are managed by the [Endangered Species Program](#) of the U.S. Fish & Wildlife Service.

**This USFWS trust resource report is for informational purposes only and should not be used for planning or analyzing project level impacts.**

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list from the Regulatory Documents section.

[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 either from the Regulatory Documents section in IPaC or from the local field office directly.**

The list of species below are those that may occur or could potentially be affected by activities in this location:

### Mammals

**Northern Long-eared Bat** *Myotis septentrionalis*

Threatened

#### CRITICAL HABITAT

**No critical habitat** has been designated for this species.

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?scode=A0JE](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?scode=A0JE)

### Critical Habitats

**There are no critical habitats in this location**

# Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the [Bald and Golden Eagle Protection Act](#).

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish & Wildlife Service.<sup>[1]</sup> There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

---

1. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

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>
- Conservation measures for birds  
<http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Year-round bird occurrence data  
<http://www.birdscanada.org/birdmon/default/datasummaries.jsp>

The following species of migratory birds could potentially be affected by activities in this location:

**American Oystercatcher** *Haematopus palliatus*

Bird of conservation concern

Season: Breeding

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0G8](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0G8)

**American Bittern** *Botaurus lentiginosus*

Bird of conservation concern

Season: Breeding

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0F3](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F3)

**Bald Eagle** *Haliaeetus leucocephalus*

Bird of conservation concern

Year-round

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B008](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B008)

**Black-billed Cuckoo** *Coccyzus erythrophthalmus*

Bird of conservation concern

Season: Breeding

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0H1](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0H1)

**Blue-winged Warbler** *Vermivora pinus*

Season: Breeding

Bird of conservation concern

**Canada Warbler** *Wilsonia canadensis*

Season: Breeding

Bird of conservation concern

**Hudsonian Godwit** *Limosa haemastica*

Season: Migrating

Bird of conservation concern

**Least Bittern** *Ixobrychus exilis*

Season: Breeding

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B092](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B092)

**Olive-sided Flycatcher** *Contopus cooperi*

Season: Breeding

Bird of conservation concern

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0AN](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0AN)

**Peregrine Falcon** *Falco peregrinus*

Season: Breeding

Bird of conservation concern

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0FU](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0FU)

**Pied-billed Grebe** *Podilymbus podiceps*

Season: Breeding

Bird of conservation concern

**Prairie Warbler** *Dendroica discolor*

Season: Breeding

Bird of conservation concern

**Purple Sandpiper** *Calidris maritima*

Season: Wintering

Bird of conservation concern

**Short-eared Owl** *Asio flammeus*

Season: Wintering

Bird of conservation concern

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0HD](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0HD)

**Snowy Egret** *Egretta thula*

Season: Breeding

Bird of conservation concern

**Willow Flycatcher** *Empidonax traillii*

Season: Breeding

Bird of conservation concern

[http://ecos.fws.gov/tess\\_public/profile/speciesProfile.action?spcode=B0F6](http://ecos.fws.gov/tess_public/profile/speciesProfile.action?spcode=B0F6)

**Wood Thrush** *Hylocichla mustelina*

Season: Breeding

Bird of conservation concern

## Wildlife refuges and fish hatcheries

**There are no refuges or fish hatcheries in 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](#).

## 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 tubercid 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.

Wetland data is unavailable at this time.

**From:** [Andrew B. Street, P.E.](mailto:Andrew.B.Street.P.E.)  
**To:** [rangelo@civildci.com](mailto:rangelo@civildci.com)  
**Subject:** Fwd: [EXTERNAL] Fwd: BATS  
**Date:** Monday, August 01, 2016 10:18:55 AM

---

Andrew B. Street, P.E.  
Civil Engineering Manager  
**CIVIL DESIGN CONSULTANTS, INC**  
30 River Street  
Methuen, MA 01844  
Tel: (978) 416-0920  
Cell: (857) 205-8975  
Fax: (978) 416-7865  
Email: [ASstreet@CivilDCI.com](mailto:ASstreet@CivilDCI.com)  
[www.CivilDCI.com](http://www.CivilDCI.com)

----- Forwarded message -----

**From:** **James E. Hanley, PE** <[jhanley@civildci.com](mailto:jhanley@civildci.com)>  
**Date:** Wed, Jul 27, 2016 at 5:16 PM  
**Subject:** Fwd: [EXTERNAL] Fwd: BATS  
**To:** "Andrew B. Street, P.E." <[ASstreet@civildci.com](mailto:ASstreet@civildci.com)>

----- Forwarded message -----

**From:** **James E. Hanley, PE** <[jhanley@civildci.com](mailto:jhanley@civildci.com)>  
**Date:** Thu, Jul 21, 2016 at 10:49 AM  
**Subject:** Re: [EXTERNAL] Fwd: BATS  
**To:** "Marron, Christopher R NAE" <[Christopher.R.Marron@usace.army.mil](mailto:Christopher.R.Marron@usace.army.mil)>

Hi Chris:

I did not mean to infer that you said the project was considered 'minimal tree clearing'. I just came across this info and was curious if it had any bearing on the necessity of the permit.

Sorry about that.

Jim

On Wed, Jul 20, 2016 at 1:56 PM, Marron, Christopher R NAE  
<[Christopher.R.Marron@usace.army.mil](mailto:Christopher.R.Marron@usace.army.mil)> wrote:

Sir,

As I said on the phone yesterday, the Department of the Army Programmatic General Permit, State of New Hampshire, (NAE-R-2012-00339) requires me to condition US Army Corps of Engineers permits with time of year restriction for tree clearing if any tree, greater than 3" DBH, are being cleared for the project. I never said your project was considered 'minimal tree removal'.

Respectfully,

Chris Marron

-----Original Message-----

From: [civildci@gmail.com](mailto:civildci@gmail.com) [mailto:[civildci@gmail.com](mailto:civildci@gmail.com)] On Behalf Of James E. Hanley, PE  
Sent: Tuesday, July 19, 2016 4:13 PM  
To: Marron, Christopher R NAE <[Christopher.R.Marron@usace.army.mil](mailto:Christopher.R.Marron@usace.army.mil)>  
Subject: [EXTERNAL] Fwd: BATS

Hi Chris:

Thanks for taking the time to speak with me yesterday. We've done a little research on our end and found the attached publication from USFWS. Page four appears to indicate that minor cutting activities, or cutting of less than 1-acre, are exempt from the need for a permit. I prepared the attached sketch for your review. As note, the project is limited to only +/- 24,800-SF of tree clearing.

Can you take a look at this and let me know how / if it affects the necessity for a permit.

Thanks again for your help.

Jim

----- Forwarded message -----

From: Timothy Ferwerda <[TJFerwerda@meridianlandservices.com](mailto:TJFerwerda@meridianlandservices.com)  
<mailto:[TJFerwerda@meridianlandservices.com](mailto:TJFerwerda@meridianlandservices.com)> >  
Date: Tue, Jul 19, 2016 at 11:05 AM  
Subject: BATS  
To: "[jhanley@civildci.com](mailto:jhanley@civildci.com) <mailto:[jhanley@civildci.com](mailto:jhanley@civildci.com)> " <[jhanley@civildci.com](mailto:jhanley@civildci.com)  
<mailto:[jhanley@civildci.com](mailto:jhanley@civildci.com)> >

Jim – Here are some documents from the fish And wildlife services and the federal register. In the fish and wildlife document under item 10 it talks about minimal cutting as an acre. The federal register page 2407 lower right it looks to me that they have determined that critical habitat is not prudent for the bats. The federal register is dated April of 2016 so this is pretty new and maybe the Army Corps has not caught up with this yet. I would think that if the tree clearing they are doing is less than an acre it is certainly not critical to the bat at this point according the the federal register.

Timothy J. Ferwerda  
Certified Wetlands & Soil Scientist



Meridian Land Services, Inc.  
PO Box 118, Milford, NH 03055-0118  
31 Old Nashua Road, Amherst, NH 03031  
P [\(603\) 673-1441](tel:(603)673-1441) <tel:%28603%29%20673-1441> F [\(603\) 673-1584](tel:(603)673-1584)  
<tel:%28603%29%20673-1584>  
TJFerwerda@MeridianLandServices.com  
<mailto:[TJFerwerda@MeridianLandServices.com](mailto:TJFerwerda@MeridianLandServices.com)>  
[Blockedwww.MeridianLandServices.com](http://www.MeridianLandServices.com) <Blocked<http://www.meridianlandservices.com/>>

Land Use & Development Consultants, Serving New Hampshire and Massachusetts

Civil Engineering - Land Surveying - Permitting - Wetland & Soil Mapping - Septic Design - Environmental Services

--

If you have any questions or comments, or require additional information, please do not hesitate to contact this office.

Jim

James E. Hanley, PE  
President  
CIVIL DESIGN CONSULTANTS, INC  
30 River Street  
Methuen, MA 01844  
Tel: [\(978\) 416-0920](tel:(978)416-0920)  
Fax: [\(978\) 416-7865](tel:(978)416-7865)  
Email: [JHanley@CivilDCI.com](mailto:JHanley@CivilDCI.com)  
[Blockedwww.CivilDCI.com](http://www.CivilDCI.com) <Blocked<http://www.CivilDCI.com>>

--

If you have any questions or comments, or require additional information, please do not hesitate to contact this office.

Jim

James E. Hanley, PE

President  
**CIVIL DESIGN CONSULTANTS, INC**  
30 River Street  
Methuen, MA 01844  
Tel: [\(978\) 416-0920](tel:(978)416-0920)  
Fax: [\(978\) 416-7865](tel:(978)416-7865)  
Email: [JHanley@CivilDCI.com](mailto:JHanley@CivilDCI.com)  
[www.CivilDCI.com](http://www.CivilDCI.com)

--

If you have any questions or comments, or require additional information, please do not hesitate to contact this office.

Jim

James E. Hanley, PE  
President  
**CIVIL DESIGN CONSULTANTS, INC**  
30 River Street  
Methuen, MA 01844  
Tel: [\(978\) 416-0920](tel:(978)416-0920)  
Fax: [\(978\) 416-7865](tel:(978)416-7865)  
Email: [JHanley@CivilDCI.com](mailto:JHanley@CivilDCI.com)  
[www.CivilDCI.com](http://www.CivilDCI.com)



DEPARTMENT OF THE ARMY  
US ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT  
696 VIRGINIA ROAD  
CONCORD MA 01742-2751

July 19, 2016

Regulatory Division  
CENAE-R-PEC  
Permit Number: NAE-2008-00782

Town of Plaistow  
Attn: Michael Dorman (mdorman@plaistow.com)  
145 Main Street  
Plaistow, New Hampshire 03865

Dear Applicant:

This is to inform you that we have reviewed your application to conduct activities as described on the attached NH State Permit 2007-02865, dated 06/29/2016.

Based on the information you provided to the New Hampshire Wetlands Bureau, we have determined that your project, which includes a discharge of dredged or fill material into waters or wetlands, will have only minimal individual or cumulative environmental impacts on waters of the United States, including wetlands. Therefore, this work is authorized under the attached Federal permit known as the New Hampshire Programmatic General Permit (PGP). This work must be performed in accordance with the terms and conditions of the PGP and the following special condition:

Special Condition 1: Tree clearing to complete the work authorized herein shall not be conducted during the time of year (TOY) restriction of April 15 to August 31 in order to minimize adverse impacts to the Northern Long Eared Bat.

You are responsible for complying with all of the PGP's requirements. Please review the attached PGP carefully to familiarize yourself with its contents. You should ensure that whoever does the work fully understands the requirements and that a copy of the permit document is at the project site throughout the time the work is underway. A copy of the PGP can also be found at [http://www.nae.usace.army.mil/Regulatory/SGP/NH\\_PGP.pdf](http://www.nae.usace.army.mil/Regulatory/SGP/NH_PGP.pdf).

This authorization expires on August 3, 2017 unless the PGP is modified, suspended, or revoked before that. You must complete the work authorized herein by that date. If you do not, you must contact this office to determine the need for further authorization before continuing the activity. We recommend that you contact us *before* this authorization expires to discuss a time extension or reissuance of the authorization.

If you change the plans or construction methods for work within our jurisdiction, please contact us immediately to discuss modification of this authorization. This office must approve any changes before you undertake them.

This authorization requires you to complete and return the enclosed Compliance Certification Form within one month following the completion of the authorized work.


This authorization presumes that the work as described above and as shown on your plans noted above is in waters of the U.S. Should you desire to appeal our jurisdiction, please submit a request for an approved jurisdictional determination in writing to this office.

This permit does not obviate the need to obtain other Federal, state or local authorizations required by law, including those listed in the PGP. Performing work not specifically authorized by this determination or failing to comply with all the terms and conditions of the PGP and the listed special condition may subject you to the enforcement provisions of Corps regulations.

We continually strive to improve our customer service. In order for us to better serve you, we would appreciate your completing our Customer Service Survey located at [http://www.nae.usace.army.mil/reg/Customer\\_Service\\_Survey.pdf](http://www.nae.usace.army.mil/reg/Customer_Service_Survey.pdf).

If you have questions concerning this, please contact Christopher R. Marron of my staff at (978) 318-8977, (978) 318-8335/8338, (800) 343-4789, or, if calling from within Massachusetts, (800) 362-4367.

Sincerely,

  
for Frank J. DelGiudice  
Chief, Permits & Enforcement Branch  
Regulatory Division

Enclosures

Copies Furnished:

New Hampshire Department of Environmental Services, Wetlands Bureau, Attn: Mr. Collis  
Adams, P.O. Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095

Civil Design Consultants, Inc., 30 River Street, Methuen, Massachusetts 01844, Attn: Mr. James  
Hanley, (978) 416-0920, [jhanley@civildci.com](mailto:jhanley@civildci.com)



**US Army Corps  
of Engineers®**  
New England District

(Minimum Notice: Permittee must sign and return notification  
within one month of the completion of work.)

## COMPLIANCE CERTIFICATION FORM

**Permit Number:** NAE-2008-00782

**Project Manager:** Christopher R. Marron

**Name of Permittee:** Town of Plaistow

**Permit Issuance Date:** 07/19/2016

Please sign this certification and return it to the following address upon completion of the activity and any mitigation required by the permit. You must submit this after the mitigation is complete, but not the mitigation monitoring, which requires separate submittals.

\*\*\*\*\*  
\* MAIL TO: U.S. Army Corps of Engineers, New England District \*  
\* Permits and Enforcement Branch C \*  
\* Regulatory Division \*  
\* 696 Virginia Road \*  
\* Concord, Massachusetts 01742-2751 \*  
\*\*\*\*\*

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

**I hereby certify that the work authorized by the above referenced permit was completed in accordance with the terms and conditions of the above referenced permit, and any required mitigation was completed in accordance with the permit conditions.**

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date of Work Completion

( ) \_\_\_\_\_  
Telephone Number

( ) \_\_\_\_\_  
Telephone Number

## Appendix I: April 2021 IDDE Training



## **IDDE Training April 2021**

### **1. Illicit Discharges**

Illicit discharges are discharges not authorized by the MS4 permit and/or prohibited activities (illicit discharges or connections to the storm sewer) identified in the town stormwater ordinance.

- Per Part 1.3 of the 2017 MS4 permit the following are not authorized discharges under the permit:
  - Stormwater discharges from the MS4 mixed with sources of non-stormwater, unless the non-stormwater discharges are authorized under a separate NPDES permit or are specifically allowed
  - Stormwater discharges associated with industrial activity, construction activity, or other NPDES permits (unless mixed with MS4 stormwater)
  - Discharges to groundwater subject to NHDES groundwater permitting and registration program (unless authorized through the program)
- Per Article XVIA of the Plaistow Zoning Ordinance illicit connections are prohibited and include:
  - Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system including but not limited to any conveyances which allow any non-storm water discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by an authorized enforcement agency or,
  - Any drain or conveyance connected from a commercial or industrial land use to the storm drain system which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.
- Per Article XVIA of the Plaistow Zoning Ordinance the following discharges to the MS4 are prohibited:
  - Any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than storm water
- Allowable stormwater discharges per Part 1.4 of the 2017 MS4 permit include:
  - Water line flushing
  - Landscape irrigation
  - Diverted stream flows
  - Rising ground water
  - Uncontaminated ground water infiltration (as defined at 40 CFR § 35.2005(20))
  - Uncontaminated pumped ground water
  - Discharge from potable water sources
  - Foundation drains
  - Air conditioning condensation
  - Irrigation water, springs
  - Water from crawl space pumps
  - Footing drains

- Lawn watering
- Individual resident car washing
- Flows from riparian habitats and wetlands
- De-chlorinated swimming pool discharges
- Street wash waters
- Residential building wash waters without detergents
- Discharges from firefighting activities (unless a significant source of pollutants)
- Article XVIA of the Plaistow Zoning Ordinance allows stormwater discharges consistent with Part 1.4 of the 2017 MS4 permit with the exception of active groundwater dewatering systems which are not allowable discharges.

## 2. Assessment and priority ranking of outfalls and interconnections in the Town MS4

Outfalls and interconnections are assessed and ranked into four categories:

- **Problem outfalls/interconnections** have known or suspected contributions of illicit discharges based on existing information including where previous screening indicates likely sewer input;
- **High priority outfalls/interconnections** have not been classified as problem outfalls/interconnections and discharge to an area of concern to public health due to proximity of public beaches, recreational areas, drinking water supplies, or shellfish beds based on the conditions listed below or other available information;
- **Low priority outfalls/interconnections** are based on the conditions below or other available information;
- **Excluded outfalls/interconnections** have no potential for illicit discharges and may be excluded from the IDDE program. This includes roadway drainage in undeveloped areas, drainage for athletic fields, parks or undeveloped green space and associated parking without services, cross-country drainage alignments through undeveloped land.

In Plaistow based on initial assessment and priority ranking there are currently:

- No problem outfalls or interconnections as there have been no known or suspected illicit discharges to the Town's MS4.
- 46 high priority outfalls/interconnections based on a history of exceedances of the NH E. coli standard for surface waters of 406 cts/100mL or discharge to the impaired segments of Kelly Brook or Seaver Brook,
- 52 low priority outfalls/interconnections that do not have any of the characteristics of high priority outfalls/interconnections.
- No excluded outfalls/interconnections identified in the initial ranking

## 3. Dry weather outfall screening and sampling procedure

- All outfalls and interconnections need to be screened for dry weather flows within three years of the permit date (i.e. by June 30, 2021) beginning with high priority outfalls/interconnections.
- Dry weather screening requires <0.1 inch of rain in the previous 24 hours and no significant snowmelt



- Each outfall is visited and observed for dry weather flow or indicators of potential non-stormwater discharges (odor, color, turbidity, floatables, or oil sheen)
- Outfall characteristics (size, material, condition) are documented on a field data sheet
- If an outfall is inaccessible or unobservable the screening should proceed upstream to the nearest access point
- If there is evidence of an illicit discharge but no active flow then follow up screening should be completed within one week
- If dry weather flow is observed then a sample must be collected at or immediately above the point of discharge. Samples include:
  - Laboratory analysis of ammonia, chlorine, E. coli, and surfactants
  - Field measurements of temperature, conductivity, and salinity
- Samples must be stored on ice and preserved according to laboratory requirements following proper chain of custody protocols

Following dry weather screening, the outfall/interconnection list gets updated based on the field investigation.

#### **4. Catchment investigation procedures**

Known or suspected illicit discharges to the Plaistow MS4 will require a catchment investigation to identify and locate the source of the discharge. Catchments with system vulnerability factors (SVFs) will be required to complete wet weather screening. Examples of SVFs include sanitary sewer overflows, widespread code-required septic system upgrades, or history of widespread septic system failures (none currently in Plaistow).

- All catchments associated with problem outfalls or other indicators of sewer input shall be investigated within 7 years of the permit effective date (June 30, 2025)
- All catchments associated with high and low priority outfalls shall be investigated within ten years of the permit effective date (June 30, 2028)

Catchment investigations consist of:

- Review of any relevant mapping and historic plans and records that can be used to identify areas within the catchment with higher potential for illicit connections
- Downstream to upstream investigation procedure beginning with the location where evidence of an illicit discharge was first detected and progressing up through the storm sewer to identify and isolate the source
- Visually determine the extent of the contributing catchment will be determined as part of the catchment investigation process.
- During dry weather, the storm sewer system, starting at the location of any SVF, will be systematically inspected for visual and olfactory evidence of illicit connections (e.g., excrement, toilet paper, gray filamentous bacterial growth, or sanitary products present).
- If flow is observed, the Town will sample the flow at a minimum for ammonia, chlorine and surfactants.

- Where sampling results or visual or olfactory evidence indicate potential illicit discharges, the area draining to the SVF will be flagged for further upstream investigation. Upstream investigation will proceed until the location of suspected illicit discharges can be isolated
- Catchments with at least one SVF will complete wet weather screening and sampling for the same parameters as dry weather sampling during or after a storm event sufficient to produce runoff
- Where the source of an illicit discharge has been approximated within the MS4, the Town will isolate and identify/confirm the source of the illicit discharge using more detailed methods including:
  - Isolation of the drainage area for implementation of more detailed investigations;
  - Inspection along the open conveyance alignment to refine the location of potential contaminant sources;
  - Targeted internal plumbing inspections, (e.g. dye testing, video inspections, or smoke testing) to isolate and confirm the sources.

Data collected as part of the catchment investigations will be reported in the Town annual report.

Illicit discharges will be removed per the Town's authority. Within one year of removal of an illicit discharge follow up screening will be completed during dry weather and (for catchments with one or more SVF) wet weather.

## Appendix J: 2021 Outfall Summary and Ranking

**Table 1. Updated Inventory and Ranking of Outfalls/Interconnections Based on Dry Weather Flow Screening, Plaistow New Hampshire, 2021.**

OUTFALL	Lat/Long	Nearest Address	Priority Ranking	Ranking	Samples Collected	Weather Conditions at Time of Sampling	precipitation in previous 48 hours?	Discharge to TMDL?	Dry Weather Flow Collected for Analysis?
BB-OF3 East	42.8498268407, -71.1100766435	8 Auburn St	Low	61	6/8/2021	Cloudy, 80	No	No	No
BB-OF3 West	42.8498268407, -71.1100766435	8 Auburn St	Low	62	6/8/2021	Cloudy, 80	No	No	No
BB-OF4	42.8500868473, -71.1116399523	5 Lower Rd	Low	63	6/8/2021	Cloudy, 80	No	No	No
BB-OF6	42.8515469749, -71.1125635542	13 Lower Rd	Low	64	6/8/2021	Cloudy, 80	No	No	No
BB-OF7T	42.8513462283, -71.1220637709	2 Tamarack Rd	Low	65	6/8/2021	Cloudy, 80	No	No	No
BB-OF7L	42.8539695125, -71.1119329836	8 Lynwood St	Low	66	6/8/2021	Cloudy, 80	No	No	No
BB-OF8	42.8504337743, -71.1234544124	19 Cottonwood Rd	High	54	6/8/2021	Cloudy, 85	No	No	No
BB-OF9	42.8546107281, -71.1272861995	37 Cottonwood Rd	Low	67	6/8/2021	Cloudy, 85	No	No	No
CHB-OF1	42.8581333905, -71.1032484099	45 Old County Rd	High	13	5/20/2021	Clear, 55	No	Yes	No
CHB-OF2	42.8601519205, -71.105225198	51 Old County Rd	High	14	5/20/2021	Clear, 55	No	Yes	No
CHB-OF3	42.8681095317, -71.1186561082	5 Deer Hollow Rd	High	15	5/20/2021	Clear, 55	No	Yes	No
CHB-OF4	42.8687593807, -71.1191310268	6 Deer Hollow Rd	High	16	5/20/2021	Clear, 60	No	Yes	No
KB-I1	42.8534279577, -71.1018671561	178 Plaistow Rd	High	10	5/20/2021	Clear, 70	No	Yes	No
KB-OF1	42.8531604074, -71.0930177942	7 Old County Rd	High	1	5/20/2021	Clear, 75	No	Yes	Yes
KB-OF2	42.856828915, -71.1043508817	5 Fran Ave	High	11	5/20/2021	Clear, 70	No	Yes	No
KB-OF3	42.8565010149, -71.106039919	24 Kelley Rd	High	12	5/20/2021	Clear, 70	No	Yes	No
KBT1-OF1	42.8667539265, -71.1210584454	6 Meadowview Dr	High	17	5/20/2021	Clear, 60	No	No	No
KBT1-OF3	42.8654884268, -71.1246919166	8 Hickory Ridge Rd	High	2	5/20/2021	Clear, 60	No	No	Yes
LB-OF1	42.8422086127, -71.1185563635	36 Greenough Rd	Low	68	6/8/2021	Cloudy, 85	No	No	No
LB-OF2	42.8460765257, -71.1158229411	4 Cottonwood Rd	Low	69	6/8/2021	Cloudy, 80	No	No	No
LB-OF3	42.8477013577, -71.1168466229	8 Cottonwood Rd	Low	70	6/8/2021	Cloudy, 80	No	No	No
LR-I1	42.8274422139, -71.106553562	31 Garden Rd	High	18	6/22/2021	Cloudy, 80	No	Yes	No
LR-I2	42.8275345825, -71.1065922864	55 Plaistow Rd	High	19	6/22/2021	Cloudy, 80	No	Yes	No
LR-I3B	42.8237255104, -71.0932927206	65 Main St	High	20	6/22/2021	Cloudy, 80	No	Yes	No
LR-I3	42.8237255104, -71.0932927206	65 Main St	High	21	6/22/2021	Cloudy, 80	No	Yes	No
LR-I4	42.8313423973, -71.1092340946	74 Plaistow Rd	High	22	6/22/2021	Cloudy, 80	No	Yes	No
LR-I5	42.8438187763, -71.0882964358	24 A Hale Spring Rd	Low	23	6/22/2021	Cloudy, 80	No	Yes	No
LR-OF1	42.8256183118, -71.1011137068	116 Willard Way	High	24	5/20/2021	Clear, 80	No	Yes	No
LR-OF2	42.8261033725, -71.0990401916	214 Oak Ridge Rd	High	25	5/20/2021	Clear, 80	No	Yes	No
LR-OF3	42.8282068111, -71.1017824989	224 Oak Ridge Rd	High	26	5/20/2021	Clear, 80	No	Yes	No
LR-OF4	42.8295511845, -71.1009950191	230 Oak Ridge Rd	High	27	5/20/2021	Clear, 80	No	Yes	No
LR-OF5	42.8275351692, -71.1002313439	217 Oak Ridge Rd	High	4	5/20/2021	Clear, 80	No	Yes	Yes
LR-OF6	42.8286373056, -71.1000730097	227 Oak Ridge Rd	High	28	5/20/2021	Clear, 80	No	Yes	No

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LR-OF7	42.8299693577, -71.0964081064	12 Evans Ave	High	29	5/20/2021	Clear, 80	No	Yes	No
LR-OF8	42.8279571142, -71.0951819178	10 Glendale Cr	High	30	5/20/2021	Clear, 80	No	Yes	No
LR-OF9	42.8298660088, -71.1048728228	45 Westville Rd	High	8	6/22/2021	Cloudy, 80	No	Yes	No
LR-OF10	42.8410991002, -71.1001083814	5 Kimball Ave	High	31	5/20/2021	Clear, 80	No	Yes	No
LR-OF11	42.8420433216, -71.1000772007	176 Main St / 6 Pineview Ave	High	32	5/20/2021	Clear, 80	No	Yes	No
LR-OF12	42.843156103, -71.1025525443	6 Old Rd	High	33	5/20/2021	Clear, 80	No	Yes	No
LR-OF13	42.8443242051, -71.1042769533	3 1/2 Jesse George Rd	High	34	5/24/2021	Clear, 55	No	Yes	No
LR-OF14	42.8443846386, -71.0973459575	8 Witch Ln	High	35	5/24/2021	Clear, 55	No	Yes	No
LR-OF15	42.8443891648, -71.0953901242	12 Witch Ln	High	7	5/24/2021	Clear, 50	No	Yes	Yes
LR-OF16	42.8436326981, -71.0945906583	18 Witch Ln	High	36	5/24/2021	Clear, 50	No	Yes	No
LR-OF17	42.8459924553, -71.089960075	2 Arbor Ln	High	37	6/8/2021	Clear, 55	No	Yes	No
LR-OF18	42.8453129344, -71.0824678279	13 Kristie Ln	Low	57	6/22/2021	Cloudy, 80	No	No	No
LR-OF19	42.8411824163, -71.0783489607	4 Brookside Rd	High	38	6/8/2021	Clear, 60	No	No	No
LR-OF20	42.8384528738, -71.081701082	3 Secluded Cr	Low	58	6/22/2021	Cloudy, 80	No	No	No
LR-OF21	42.8322204854, -71.100667119	27 Westville Rd	High	55	6/22/2021	Cloudy, 80	No	Yes	No
LR-OF24	42.8408420272, -71.0745549761	6 Partridge Ln	Low	59	6/8/2021	Clear, 60	No	No	No
LR-OF25	42.8414402436, -71.0727064312	50 Windsor Cr	Low	60	6/8/2021	Clear, 60	No	No	No
LR-OF26	42.8391529899, -71.0717488825	18 Partridge Ln	High	39	6/8/2021	Clear, 60	No	No	No
LR-OF27	42.8386803344, -71.0800089967	10 Rustic Ln	High	5	6/8/2021	Clear, 55	No	No	Yes
LRT1-OF1	42.8203429095, -71.1099384259	7 Birch St	Low	49	6/22/2021	Cloudy, 75	No	No	No
LRT1-OF2	42.8186, -71.10614	11 Wentworth Ave	Low	50	6/22/2021	Cloudy, 75	No	No	No
LRT1-OF3	42.82079, -71.10105	9 Garden Rd	Low	51	6/22/2021	Cloudy, 75	No	No	No
LRT1-OF4	42.8229569737, -71.0996019468	3 Massasoit Blvd	Low	52	5/20/2021	Clear, 80	No	No	No
LRT2-OF2	42.8362726327, -71.1128238123	15 Sunrise Terrace	Low	53	6/22/2021	Cloudy, 80	No	No	No
MB-OF1	42.8279924858, -71.076745335	6 Suzanne Cr	High	56	6/22/2021	Cloudy, 75	No	No	No
MB-OF2	42.8282863554, -71.0757636465	2 Suzanne Cr	Low	71	6/22/2021	Cloudy, 75	No	No	No
MB-OF4	42.8228060156, -71.0726214387	7 Squirrel Rd	Low	72	6/22/2021	Cloudy, 75	No	No	No
SB-OF1	42.8109186329, -71.0685568023	12 Country Club In	Low	73	6/8/2021	Cloudy, 85	No	No	No
SB-OF2	42.8117904346, -71.0666730534	2 Country Club In	Low	74	6/8/2021	Cloudy, 85	No	No	No
SB-OF3	42.8346610442, -71.08161279	7 Rolling Hill Ave	High	3	6/8/2021	Cloudy, 90	No	No	Yes
SB-OF4	42.8325940669, -71.0665821936	9 Greenfield Dr	Low	75	6/22/2021	Cloudy, 75	No	No	No
SB-OF5	42.8351832367, -71.0658962186	27 Greenfield Dr	Low	76	6/22/2021	Cloudy, 75	No	No	No
SB-OF6	42.8374554869, -71.0647595488	5 Ridgewood Rd	Low	77	6/22/2021	Cloudy, 75	No	No	No
SB-OF7	42.8372202907, -71.0642433912	5 Ridgewood Rd	Low	78	6/22/2021	Cloudy, 75	No	No	No
SB-OF11	42.8226050176, -71.0751278792	43 Harriman Rd	Low	79	6/22/2021	Cloudy, 75	No	No	No
SB-OF12	42.8217751253, -71.0742834024	51 Harriman Rd	Low	80	6/22/2021	Cloudy, 75	No	No	No
SBT1-OF4	42.8201122396, -71.0867922194	34 Forrest St	Low	81	6/22/2021	Cloudy, 75	No	No	No
SBT1-OF5	42.8188699577, -71.0823657364	56 Forrest St	Low	82	6/22/2021	Cloudy, 75	No	No	No
SBT2-OF1	42.817138508, -71.0798622295	5 Autumn Cr	High	9	6/22/2021	Cloudy, 75	No	No	No

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SBT3-OF1	42.8170809243, -71.0711199045	12 Red Oak Dr	Low	83	6/8/2021	Cloudy, 90	No	No	No
SBT3-OF3	42.8199007642, -71.0667707026	4 Johnson Dr	Low	84	6/22/2021	Cloudy, 80	No	No	No
SBT3-OF4	42.8241205495, -71.0661888309	15 Timberlane Rd	Low	85	6/22/2021	Cloudy, 75	No	No	No
SBT3-OF5	42.8270960413, -71.0655484535	9 Dundee Dr	Low	86	6/8/2021	Cloudy, 90	No	No	No
SBT3-OF8	42.830092907, -71.0705418885	2 Collins Ct	Low	87	6/8/2021	Cloudy, 90	No	No	No
SEA-I1	42.8387524188, -71.0955190379	151 Main St	High	40	6/22/2021	Cloudy, 80	No	No	No
SEA-OF1	42.8354286589, -71.0931285191	7 Center Cir	High	41	5/24/2021	Clear, 60	No	Yes	No
SEA-OF2	42.8395870049, -71.0924929194	18 Elm St	High	42	5/24/2021	Cloudy, 60	No	No	No
SEA-OF4	42.8313517012, -71.0869629588	16 Wild Brook Dr	High	43	5/24/2021	Cloudy, 60	No	No	No
SEA-OF5	42.8300195653, -71.0899773426	4 Wild Brook Dr	High	6	5/24/2021	Cloudy, 60	No	No	Yes
SEA-OF6	42.8291640244, -71.0871184431	19 Congressional Ave	High	44	5/24/2021	Cloudy, 60	No	No	No
SEA-OF7	42.8276555333, -71.0884197336	14 Congressional Ave	High	45	5/24/2021	Cloudy, 60	No	No	No
SEA-OF8	42.8276375961, -71.0913482029	4 Congressional Ave	High	46	5/24/2021	Cloudy, 60	No	No	No
SEA-OF9	42.8273528628, -71.0859670211	3 Harmony Wy	High	47	6/22/2021	Cloudy, 75	No	No	No
SEA-OF10	42.8245880082, -71.0900418833	14 Forrest St	High	48	5/24/2021	Cloudy, 60	No	No	No
ST1-OF1	42.8153995983, -71.0920651071	6 Woodland Dr	Low	88	6/22/2021	Cloudy, 75	No	No	No
ST1-OF2	42.819899004, -71.0917398892	6 Tracey Ln	Low	89	6/22/2021	Cloudy, 75	No	No	No
ST1-OF3	42.8207444027, -71.0923753213	2 Tracey Ln	Low	90	6/22/2021	Cloudy, 75	No	No	No

**Table 2. Summary of analyses for Dry Weather Flow Screening, Plaistow New Hampshire, 2021.**

<b>OUTFALL</b>	<b>Temperature (°C)</b>	<b>Specific Conductance (umhos/cm)</b>	<b>Ammonia (mg/L)</b>	<b>Chloride (mg/L)</b>	<b>E. coli Bacteria (mpn/mL)</b>	<b>Surfactants (mg/L)</b>
KB-OF1	16.2	500	<0.5	94	<1	<0.05
KBT1-OF3	15.8	530	<0.5	96	649	<0.05
LR-OF5	15.6	999	<0.5	222	<1	<0.05
LR-OF15	14.8	500	<0.5	74	<1	<0.05
LR-OF27	14.8	750	<0.5	176	3	<0.05
SB-OF3	20.4	760	<0.5	154	101	<0.05
SEA-OF5	14.5	540	<0.5	106	<1	<0.05