

# LONG CREEK WATERSHED MANAGEMENT DISTRICT

c/o CCSWCD • 35 Main Street, Suite 3 • Windham • Maine • 04062

March 4, 2011

NAME

ADDRESS

CITY, STATE ZIP

Re: Site-Specific Operation and Maintenance Plan  
Map Number \_\_\_\_\_  
Site Address

Dear \_\_\_\_\_

The Long Creek Water Management District (LCWMD) is pleased to provide you with the Site Specific Operation and Maintenance Plan to assist you with inspection, record keeping, and maintenance requirements presented in the Long Creek Watershed Management Plan.

Kate McDonald, Project Scientist with Cumberland County Soil and Water Conservation District, will be facilitating the implementation of these plans. Electronic copies of the plans are available upon request. Please email Kate ([kmcdonald@cumberlandswcd.org](mailto:kmcdonald@cumberlandswcd.org)) with any document requests.

Please contact either Kate or me if you have any questions, concerns, or wish to discuss this plan further.

Best Regards,

Tamara Lee Pinard  
Executive Director  
Long Creek Watershed Management District

Attachment

## SITE SPECIFIC OPERATION & MAINTENANCE PLAN

<b>OPERATOR:</b>		<b>MAP #</b>	
<b>LOCATION:</b>		<b>VEHICLE USAGE INTENSITY:</b>	

### **Project Overview**

The Long Creek Watershed Management District (LCWMD) is pleased to provide you with this Site-Specific Operation and Maintenance Plan (O&M Plan). It was developed to define the inspection, record keeping, and maintenance requirements of the *Long Creek Watershed Management Plan* as they relate to your parcel. This O&M Plan has been individually tailored to this parcel's stormwater infrastructure, site characteristics, business operations, and the respective opportunities and limitations related to reducing the pollutant load on the Long Creek Watershed. The maintenance of a parcel's impervious surfaces and stormwater infrastructure is critical to extending the long-term performance and effectiveness of Best Management Practices (BMPs).

### **Purpose**

This site-specific O&M Plan summarizes the minimum operation and maintenance activities by the LCWMD and by the property owner/operator necessary for the parcel to meet the General Permit requirements. The activities summarized in this plan were derived from "Minimum Good Housekeeping Standards" (found as Appendix D to the Participating Landowners Agreement) and *Long Creek General Permit Participating Landowners' Best Management Practices Operation and Maintenance Plan*. This plan is designed to provide a single-document reference for BMP O&M at the property referenced above. If any other activities are required pursuant to other permits held by the property owner/operator, please notify LCWMD so that they may be included in this plan.

### **What the O&M Plan includes**

This O&M Plan has been separated into the following categories:

- **O&M Plan Narrative** (Pg. 1-3)
- **O&M Matrix** (Attachment 1) defines the minimum inspection and maintenance requirements and frequencies. The applicable requirements have been highlighted for quick reference. In accordance with the Participating Landowner Agreement, O&M requirements must be completed.
- **O&M Site Plan** (Attachment 2) details the location of the BMPs, stormwater infrastructure, snow storage locations, good housekeeping measures, and their proximity to the surrounding natural resources. The snow storage locations were based upon the Long Creek Winter Operations and Maintenance Procedures - Snow Storage Recommendations and individual meetings with landowners and their snow contractors.
- **O&M Inspection Log** (Attachment 3) summarizes inspections, maintenance, and any corrective action taken. This log includes all of the inspection information that will be entered into the LCWMD Inspection Database (see *BMP Inspection Protocol* below).

## **Property Operator Responsibilities under this O&M Plan**

As part of the Participating Landowner Agreement, the LCWMD is conducting the following activities: O&M of its own BMPs (i.e., those constructed or installed with LCWMD funds), sweeping, targeted “hot spot” sweeping, catch basin cleaning, and storm drain cleaning. The remaining activities identified on the O&M Matrix (Attachment 2) are the responsibility of the property owner/operator, including maintenance of privately-owned BMPs. The property owner/operator may opt to have LCWMD conduct the inspections or they may hire a third-party inspector who meets the criteria outlined below. The owner/operator must notify LCWMD of their inspector selection on or before June 1, and the inspection must be completed and documented before September 1 of each year.

## **BMP Inspection Protocol**

It is critical that the stormwater management facilities be routinely inspected and that maintenance be completed as necessary. All inspections shall be carried out by a Qualified Third Party Inspector (Inspector). In accordance with the *Long Creek General Permit Participating Landowners’ Best Management Practices Operation and Maintenance Plan*, Inspectors shall meet the following minimum requirements:

- Have a college degree in environmental science or civil engineering, or have comparable expertise;
- Have a practical knowledge of stormwater hydrology and stormwater management techniques, including maintenance requirements for BMPs;
- Have practical design, construction, and maintenance experience with stormwater BMPs;
- Have the ability to determine if BMPs are performing as intended; and,
- Have obtained certification in the Maintenance and Inspection of Stormwater BMPs by Maine DEP.

The LCWMD is in the process of compiling a list of approved Inspectors. This list will be provided under separate cover. Inspectors may be selected from this list or proposed alternate Inspectors may be submitted to LCWMD Executive Director for approval at least 4 weeks prior to scheduled inspection activities.

The Inspector shall enter the O&M log information (Attachment 3) into the LCWMD web-based database within 10 business days of the inspection. Inspectors will be provided with access to this database upon notification of a scheduled inspection.

## **Potential Next Steps**

The LCWMD is working with the watershed property owner/operators to evaluate how landscape practices, winter maintenance, and additional pollution prevention practices may be adjusted to further minimize the pollutant load on the Long Creek Watershed. These evaluations are ongoing and are designed to assist property owner/operators in selecting the most efficient and effective practices for their parcel.

## **Conclusion**

The O&M Plan represents the minimum activities required to meet the O&M Permit Requirements put forth under the Participating Landowner Agreement. The parcel shall still be subject to any applicable future Pollution Prevention requirements identified within the Long Creek Watershed Management Plan,

civil site plans, permit applications, erosion and sedimentation control plans, reports, stormwater management plans, inspection and maintenance manuals, and all municipal, state, and federal rules.



The LCWMD is committed to working with property owner/operators and operators to ensure implementation of an effective plan. Therefore, this O&M plan will be evaluated periodically with the water quality data to ensure that the most appropriate and cost effective measures are being implemented to restore the Long Creek Watershed.

The parcel's operator shall review the following O&M Plan and contact the individual below if there are any discrepancies or information that you feel would enhance the plan.

Kate McDonald – Project Scientist  
Cumberland County Soil and Water Conservation District  
Phone: (207) 892-4700  
Email: [kmcdonald@cumberlandswcd.org](mailto:kmcdonald@cumberlandswcd.org)

ATTACHMENT 1  
 SITE-SPECIFIC OPERATION AND MAINTENANCE MATRIX




MAP KEY: \_\_\_\_\_

		Spring	Summer	Fall	As Necessary
<b>Sweeping (to be conducted by LCWMD):</b>					
	<ul style="list-style-type: none"> <li>Annual sweeping following snow melt that includes both targeted and non-targeted pavement. The equipment shall meet the following minimum specifications; pure vacuum or regenerative air sweeper, overall pick-up performance exceeding 93%, pick-up performance efficiency exceeding 90% for particle size ranging 63-250 microns. The maximum sweeping speed shall not exceed three miles per hour.</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Accumulations of sand adjacent to paved shoulders may be removed by grading or powerbrooming excess sand back onto the pavement edge and removed either manually or mechanically.</li> </ul>	X			
	<ul style="list-style-type: none"> <li>Appropriately dispose of all collected material.</li> </ul>				X
<b>Targeted "Hot Spot" Sweeping Program (to be conducted by LCWMD):</b>					
	<ul style="list-style-type: none"> <li>Sweep all delineated hot spot locations three times between the spring sweeping and November. The equipment shall meet the following minimum specifications; pure vacuum or regenerative air sweeper, overall pick-up performance exceeding 93%, pick-up performance efficiency exceeding 90% for particle size ranging 63-250 microns. The maximum sweeping speed shall not exceed three miles per hour. Appropriately dispose of all collected material as needed.</li> </ul>	X	X	X	
<b>Gravel Roads or Parking Lots:</b>					
	<ul style="list-style-type: none"> <li>Grading of gravel road or parking lots must be routinely performed to ensure that the stormwater uniformly flows off the surface to the adjacent buffer areas or stable ditches and is not impeded by accumulations of graded material on the shoulder.</li> </ul>				X
<b>Catch Basins (to be conducted by LCWMD):</b>					
	<ul style="list-style-type: none"> <li>The catch basin shall be cleaned annually to remove any accumulated sediment. The equipment shall meet the following minimum specifications; vacuum attachment for catch basin cleaning, power jet and water source for washing down basin, and a liquid decanted on-site and returned to the catch basin.</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Inspect the catch basin to confirm the structure is operating properly. Legally dispose of accumulated sediment and debris from the bottom of the basin, inlet grates, and inflow channels to the basin. Liquids must be decanted on-site and returned to the catch basin.</li> </ul>		X		
	<ul style="list-style-type: none"> <li>If the basin outlet is designed with a hood to trap floatable materials (e.g. Snout), check to ensure watertight seal is working. Remove floating debris and hydrocarbons (e.g. using absorbent pads) at the time of the inspection.</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Remove and replace any hydrocarbon absorptive pads</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Remove and replace any sediment sacks</li> </ul>		X		
	<ul style="list-style-type: none"> <li>Appropriately dispose of all collected material.</li> </ul>				X

ADDRESS: \_\_\_\_\_

ATTACHMENT 1  
 SITE-SPECIFIC OPERATION AND MAINTENANCE MATRIX





MAP KEY: \_\_\_\_\_

		Spring	Summer	Fall	As Necessary
<b>Storm Drains (to be conducted by LCWMD):</b>					
	<ul style="list-style-type: none"> <li>The storm drain shall be annually inspected for the presence of accumulated sediment or debris. Any sediment shall be removed. The equipment shall meet the following minimum specifications; power jet and water source for washing down the storm drain, vacuum attachment for catch basin cleaning, and a liquid handling method to dewater the material.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Inspect and legally dispose of accumulated sediment and debris within the storm drains between basins. Liquids must be decanted on-site and returned to the catch basin.</li> </ul>				X
<b>Culverts:</b>					
	<ul style="list-style-type: none"> <li>Inspect culverts to confirm the structure is working properly. Remove any obstructions, accumulated sediment and debris from the inlet, outlet and within the conduit.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Repair any erosion damage at the inlet and outlet.</li> </ul>				X
<b>Ditches/Swales:</b>					
	<ul style="list-style-type: none"> <li>Inspect for any erosion, trash or woody debris. Any erosion shall be repaired, and trash and woody debris shall be removed.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Accumulated sediment shall be removed once accumulation reaches six inches in depth. The accumulated sediment shall be removed to maintain the designed hydraulic flow line.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Mowing of the vegetated swales shall be completed annually to control the growth of woody vegetation and maintain flow capacity. Grass height shall ideally be greater than six inches but no less than 3 inches.</li> </ul>		X		
<b>Vegetated Areas</b>					
	<ul style="list-style-type: none"> <li>Inspect all slopes and embankments. Replant bare areas with sparse growth (less than 90% coverage)</li> </ul>	X			
<b>Wet Ponds:</b>					
	<ul style="list-style-type: none"> <li>Inspect Outlet Control Structures to ensure they are in good working order and that the orifice and trash racks are unobstructed from trash and debris. Any trash and debris shall be removed.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Inspect upstream pre-treatment measures (see proprietary devices below) for sediment and floatables accumulation. Remove and dispose of sediments or debris as needed.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Remove and properly dispose of any accumulated sediment or debris as needed from the bottom of the pond once volume loss reaches 15% of the original design.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Inspect the gravel trench outlet to verify that the pond is draining through the gravel filter down to the permanent pool elevation 12-24 hours after the storm.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Replace the top several inches of the gravel in the outlet trench when water ponds above the permanent pool for more than 72 hours.</li> </ul>				X

ADDRESS: \_\_\_\_\_



ATTACHMENT 1  
 SITE-SPECIFIC OPERATION AND MAINTENANCE MATRIX

MAP KEY: \_\_\_\_\_

		Spring	Summer	Fall	As Necessary
	<ul style="list-style-type: none"> <li>Mow the embankment and/or vegetated spillway to control woody vegetation.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Inspect the embankments and spillways for settlement, destabilization of side slopes, slope erosion, downstream swamping and other signs of structural failure.</li> </ul>			X	
<b>Stormwater Detention / Retention Facilities:</b>					
	<ul style="list-style-type: none"> <li>Inspect upstream pre-treatment measures (see proprietary devices below) for sediment and floatables accumulation. Remove and dispose of sediments or debris as needed.</li> </ul>				X
<i>Surface Detention:</i>					
	<ul style="list-style-type: none"> <li>Inspect pond annually to ensure that it is working in its intended fashion and that it is free of trash and debris.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Remove and properly dispose of any accumulated sediment or debris as needed from the bottom of the basin once volume loss reaches 15% of the original design.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Inspect the embankments and spillways for settlement, destabilization of side slopes, slope erosion, downstream swamping and other signs of structural failure.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Mow the embankment and/or vegetated spillway to control woody vegetation.</li> </ul>			X	
	<ul style="list-style-type: none"> <li>Inspect Outlet Control Structures to ensure they are in good working order and that the orifice and trash racks are unobstructed from trash and debris.</li> </ul>			X	
<i>Sub-Surface Detention:</i>					
	<ul style="list-style-type: none"> <li>Inspect sub-surface chamber or pipe system two times per year via the inspection ports, cleanouts, or other access structure. Clean system per manufacturer's recommendations.</li> </ul>	X		X	
	<ul style="list-style-type: none"> <li>Inspect Outlet Control Structures to ensure they are in good working order and are unobstructed from trash and debris. Remove and dispose of any sediments or debris.</li> </ul>			X	
<b>Filtration: Vegetated Underdrain Soil Filter Bio-Retention Cell:</b>					
	<ul style="list-style-type: none"> <li>The soil filter shall be inspected to ensure the filter area is draining within a 48-hour period and no less than a 24-hour period.</li> </ul>	X		X	
	<ul style="list-style-type: none"> <li>Soil filter replacement shall occur when water ponds on the surface of the bed for periods greater than 72 hours. The top several inches of the filter shall be replaced with fresh material. Removed material shall be disposed in an acceptable manner.</li> </ul>				X
	<ul style="list-style-type: none"> <li>Sediment and plant debris should be removed from the pretreatment structure on an annual basis if within six inches of the top of the stone berm.</li> </ul>				X
	<ul style="list-style-type: none"> <li>The filter bed and embankments shall be mowed no more than twice per year. Grass height shall be no less than six inches using walk-behind mowers or hand-held brush cutters. Tractor mowers shall not be used on the filter bed or embankments.</li> </ul>		X	X	

ATTACHMENT 1  
 SITE-SPECIFIC OPERATION AND MAINTENANCE MATRIX

MAP KEY: \_\_\_\_\_

		Spring	Summer	Fall	As Necessary
	• The filter area shall not be fertilized unless it is absolutely necessary.				X
	• Harvesting and pruning of excessive growth shall be done occasionally. Weeding to control unwanted or invasive plants may be necessary.				X
	• Inspect Outlet Control Structures to ensure they are in good working order and that orifices are unobstructed from trash and debris. Inspect the valving (if present) to make sure it is in good working condition.			X	
	• Inspect upstream pre-treatment measures (see proprietary devices below) for sediment and floatables accumulation. Remove and dispose of sediments or debris as needed.				X
<b>Infiltration Facilities:</b>					
	• Inspect all upstream pre-treatment measures for sediment and floatables accumulation. Remove and dispose of sediments or debris as needed.			X	
<i>Surface Infiltration</i>					
	• Renew the infiltration media if it fails to drain within 72 hours after a rainfall of one half inch or more.				X
	• Vegetated infiltration ponds or swales should be mowed at least annually or otherwise maintained to control the growth of woody vegetation and to control the accumulation of sediments in order to maintain the water quality volume. Any woody vegetation or accumulated sediment must be removed.		X		
<i>Sub-Surface Infiltration</i>					
	• Renew the infiltration media if it fails to drain within 72 hours after a rainfall of one half inch or more.				X
	• Inspection can be accomplished by using the observation well, inspection port, and/or access structure for underground chamber systems.			X	
<b>Buffers:</b>					
	• Level lip spreaders shall be inspected to verify the BMP is working properly. Sediment and debris shall be inspected and removed once accumulated to within twelve inches of the top of the level lip spreader.			X	
	• Meadow buffers shall not be mowed more than twice per year with grass height not less than six inches at any time. Meadow buffers may not be maintained as a lawn.				X
	• Buffers shall be inspected for evidence of erosion or concentrated flows through or around the buffer. All eroded areas shall be repaired, seeded and mulched. If concentrated flows appear, install and maintain a shallow stone trench to distribute flows as a level lip spreader.				X
	• Buffers shall be inspected for foreign debris. Any debris encountered shall be removed.			X	
	• Inspect the condition of buffers and plantings adjacent to protected natural resources.	X			
<b>Pervious Pavement:</b>					

ATTACHMENT 1

SITE-SPECIFIC OPERATION AND MAINTENANCE MATRIX

MAP KEY: \_\_\_\_\_

	Spring	Summer	Fall	As Necessary
<ul style="list-style-type: none"> <li>Vacuum Sweep with a vacuum assisted regenerative dry sweeper to collect fines. The equipment shall meet the following minimum specifications; pure vacuum or regenerative air sweeper, overall pick-up performance exceeding 93%, pick-up performance efficiency exceeding 90% for particle size ranging 63-250 microns. The maximum sweeping speed shall not exceed three miles per hour.</li> </ul>	X		X	X
<ul style="list-style-type: none"> <li>If the parking area does not drain within 72 hours of a rain event equivalent to half inch or more, all or part of the parking area will be removed and replaced.</li> </ul>				X
<ul style="list-style-type: none"> <li>Potholes and cracks can be filled with patching mixes unless more than ten percent of the surface area needs repair (Avoid sealing or repaving with non-porous materials).</li> </ul>				X
<b>Proprietary Devices</b>				
<ul style="list-style-type: none"> <li>See the attached O&amp;M Manual provided by the manufacturer for type of inspection and the frequency at which maintenance shall occur.</li> </ul>				
<p>All maintenance is the responsibility of the property owner/operator unless otherwise noted.                      All inspections must be completed by a Qualified Third Party Inspector.</p>				

**Attachment 2**

**Operation and Maintenance Site Plan**

**Attachment 3**

**Operation and Maintenance Inspection Log**

**Long Creek Restoration Project  
Operation and Maintenance Inspection Log**

<b>Owner:</b>	<b>Operator:</b>
<b>Location:</b>	<b>Inspector:</b>
<b>BMP ID:</b>	<b>Date:</b>
<b>General Information</b>	<b>Observations</b>
Inspection duration (hours)	
Days since last precipitation	
Quantity of last precipitation (in)	
Type of inspection	
Storm event	
Current weather	
Photos taken	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Nearby natural resources	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Copy of ESC plan	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
MEDEP Permit #	
General info notes	
<b>Vegetated Areas</b>	<b>Observations</b>
Condition of slopes and embankment is good	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
No bare areas (< 90% covered) with sparse growth	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Armored areas have no rill erosion or the flow is diverted to onsite areas able to withstand concentrated flows	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vegetated area notes	
<b>Stormwater Channels</b>	<b>Observations</b>
Condition of ditches, swales, and other stormwater channels is good	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
No obstructions, accumulated sediments or debris	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vegetated growth and woody vegetation is controlled	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Erosion of any ditch lining is repaired	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vegetated ditches have been mowed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Woody vegetation growing through riprap has been removed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Riprap has been replaced where underlying filter fabric or underdrain gravel is showing or where stones have dislodged	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Stormwater channel notes	
<b>Culverts</b>	<b>Observations</b>
Accumulated sediments and debris at the inlet, outlet, and within the conduit have been removed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Erosion damage at the inlet and outlet have been repaired	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Culvert notes	

**Long Creek Restoration Project  
Operation and Maintenance Inspection Log**

Catch Basin Systems	Observations
Accumulated sediments from the bottom of the basin inlet grates, inflow channels to the basin, and pipes between basins have been removed and legally disposed of	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Floating debris and floating oils (using oil-absorptive pads) have been removed from any trap designed for such	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Catch basin system notes	
Roadway and Parking Surfaces	Observations
Accumulated winter sand in parking lot and along roadways have been cleared	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Pavement is swept to help remove sediment	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Road shoulders and excess sand have been graded	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Gravel roads and road shoulders have been graded	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Sediment within all water bars and open-top culverts have been removed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
No stormwater is impeded by accumulations of material or false ditches in the shoulder	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Roadway and parking surface notes	
Buffers	Observations
Treatment buffers have been inspected for evidence of erosion, concentrated flow, or encroachment by development	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Buffer vegetation has been managed with the requirements of all deed restrictions	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vegetation in all non-wooded buffers has been mowed no shorter than 6 inches and less than three times per year	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
The sown-slope of all spreaders and turn-outs for erosion have been inspected and repaired	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
More level spreaders or ditch turn-outs have been installed for better distribution of flow	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Sediment has been cleaned from within all spreader bays or turnout pools	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Buffer notes	
Stormwater Detention and Retention Facilities	Observations
Embankments have been inspected for settlement, slope erosion, internal piping, and downstream swamping.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Embankments have been mowed to control woody vegetation	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
The outlet control structure has been inspected for broken seals, obstructed orifices, and plugged trash racks.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Sediment and debris within the control structure have been removed and disposed of.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Any damage to the trash racks or debris guards has been repaired	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vegetated spillways have been mowed to control woody vegetation and replace any dislodged stone in riprap spillways	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

**Long Creek Restoration Project  
Operation and Maintenance Inspection Log**

Accumulated sediments within the impoundment and forebay have been removed.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Stormwater detention and retention facility notes	
<b>Runoff Infiltration Facilities</b>	<b>Observations</b>
Any pretreatment measures that collected sediment and hydrocarbons entering an infiltration system have been inspected and cleaned out.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Accumulated sediments within the infiltration area have been removed and disposed of.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
The infiltration system has been renewed if it fails to drain within 72 hours after a rainfall of one-half inch or more.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
The soil of vegetated infiltration basins has been tilled and replanted.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Rock-lined basins or stone-filled trenches have been reconstructed by removing stones, replacing underlying filter fabric, and tiling or removing the underlying wall.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Runoff infiltration facilities notes	
<b>Property Treatment Devices</b>	<b>Observations</b>
A third party has been contracted with for the removal of accumulated sediments, oils, and debris within the device and replacement of any absorptive filters.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Proprietary device notes	
<b>Other Comments</b>	<b>Observations</b>
Corrective action needed	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If corrective action in needed, please explain detail	
Verbal notification provided to responsible party	<input type="checkbox"/> Yes <input type="checkbox"/> No
Verbal notification contact	
Follow up required	<input type="checkbox"/> Yes <input type="checkbox"/> No
Final comment notes	

**Long Creek Restoration Project  
Operation and Maintenance Inspection Log**

<b>Photos</b>
<b>Edit Notes</b>
Date entered Date edited Edited by