

# STORMWATER SYSTEM OPERATION AND MAINTENANCE PLAN

## Inspection & Maintenance Manual Checklist

Riverside Subdivision  
209 Pleasant St  
Epping, NH

BMP / System	Minimum Inspection Frequency	Minimum Inspection Requirements	Maintenance / Cleanout Threshold
Pavement Sweeping	Two Times Per Year	N/A	N/A
Litter/Trash Removal	Routinely	Inspect dumpsters, outdoor waste receptacles area, and yard areas.	Parcel will be free of litter/trash.
Deicing Agents	N/A	N/A	Use salt as the primary agent for roadway safety during winter.
<b>Closed Drainage System:</b>			
Drainage Pipes/Catch Basins & DMH's	1 time per 2 years	Check for sediment accumulation & clogging.	Less than 2" sediment depth

Surface Sand Filter	Twice Annually After every 2.5" of rain or greater.	Monitoring and evaluation of wetland vegetation, inspection of sediment on pond surface, inlet/outlet and appurtenance structure evaluation.	Remove dead & diseased vegetation along with all debris; take corrective measures, reseed and repair inlet/outlet structures and appurtenances if required.
Drainage Swales	2 times per year	Check for sediment and debris accumulation buildup.	Remove sediment & debris when required..
Bioretention System / Rain Garden	Twice Annually After every 2.5" or rain or greater.	72-Hour drawdown time evaluation and vegetation evaluation.	Remove dead & diseased vegetation along with all debris; take corrective measures of filtration media if required.
Gravel Wetland	Twice Annually After every 2.5" of rain or greater.	72-Hour drawdown time evaluation and vegetation evaluation.	Remove dead & diseased vegetation along with all debris;

Inspection Notes:



# INSPECTION CHECKLIST AND MAINTENANCE GUIDANCE - SURFACE SAND FILTER INSPECTION CHECKLIST

Location: \_\_\_\_\_  
 Owner Change since last inspection? Y N \_\_\_\_\_  
 Owner Name, Address, Phone: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Site conditions: \_\_\_\_\_

Inspection Item	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
<b>Sand Filter Inspection List</b>		
Complete drainage of the filter in about 40 hours after a rain event?		
Clogging of filter surface?		
Clogging of inlet/outlet structures?		
Clogging of filter fabric?		
Filter clear of debris and functional?		
Leaks or seeps in filter?		
Obstructions of spillway(s)?		
Animal burrows in filter?		
Sediment accumulation in filter bed (less than 50% is acceptable)?		
Cracking, spalling, bulging or deterioration of concrete?		
Erosion in area draining to sand filter?		
Erosion around inlets, filter bed, or outlets?		
Pipes and other structures in good condition?		
Undesirable vegetation growth?		
Other (describe)?		
<b>Hazards</b>		
Have there been complaints from residents?		
Public hazards noted?		

If any of the above inspection items are **UNSATISFACTORY**, list corrective actions and the corresponding completion dates below:

Corrective Action Needed	Due Date

Inspector Signature: \_\_\_\_\_

Inspector Name (printed) \_\_\_\_\_

### CHECKLIST FOR INSPECTION OF GRAVEL WETLAND

Location: \_\_\_\_\_ Inspector: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Site Conditions: \_\_\_\_\_  
 Days Since Last Rain Event: \_\_\_\_\_

Inspection Items	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
<b>Year Post-Construction Monitoring (After every major storm for the first three months)</b>		
Plants are stable, roots not exposed	S U	
Vegetation is established and thriving	S U	
Evidence of holes in the wetland soil causing short-circuiting	S U	
Evidence of erosion at inlet and outlet structures	S U	
<b>Construction Routine Monitoring (at least every 6 months thereafter as per USEPA Good House-Keeping Requirements. Inspection frequency can be reduced to annual following 2 years of monitoring indicating the rate of sediment accumulation is less than cleaning criteria listed below.)</b>		
<b>Standing Water</b>		
Gravel wetland surface is free of standing water or other evidence of clogging, such as discolored or accumulated sediments	S U	
<b>Short-Circuiting &amp; Erosion</b>		
Evidence of animal burrows or other holes	S U	
Evidence of erosion	S U	
<b>Light Conditions (As needed)</b>		
Plants as needed	S U	
Wilted or dying plants	S U	
<b>Settlement Chamber or Forebay Inlet Inspection</b>		
Evidence of sediment accumulation, trash, and debris	S U	
Good condition, no need for repair	S U	
<b>Vegetation Coverage</b>		
Coverage established throughout system by first year	S U	
Coverage by year 2 or later	S U	
<b>Inlet and Outlet Controls</b>		
Unobstructed in openings (grates, orifices, etc)	S U	
Structures are operational with no evidence of malfunction	S U	
<b>Sedimentation removal (once every 3 years)</b>		

ne dead, diseased, or decaying plants	S	U
Corrective Action Needed	Due Date	

**HECKLIST FOR INSPECTION OF BIORETENTION SYSTEM / TREE FILTERS**

Location: Inspector:  
Date: Time: Site Conditions: Date Since Last Rain Event:

Inspection Items	Satisfactory (S) or Unsatisfactory (U)	Comments/Corrective Action
<b>Initial Inspection After Planting and Mulching</b>		
Plants are stable, roots not exposed	S U	
Surface is at design level, typically 4" below overpass	S U	
Overflow bypass / inlet ( if available) is functional	S U	
<b>Debris Cleanup (2 times a year minimum, Spring &amp; Fall)</b>		
Stem litter, leaves, and dead vegetation removed from the stem	S U	
Remove perennial vegetation	S U	
<b>Standing Water (1 time a year, After large storm events)</b>		
No evidence of standing water after 72 hours	S U	
<b>Short Circuiting &amp; Erosion (1 times a year, After large storm events)</b>		
No evidence of animal burrows or other holes	S U	
No evidence of erosion	S U	
<b>Drought Conditions (As needed)</b>		
Water plants as needed	S U	
Dead or dying plants	S U	
<b>Overflow Bypass / Inlet Inspection (1 times a year, After large storm events)</b>		
No evidence of blockage or accumulated leaves	S U	
Good condition, no need for repair	S U	
<b>Vegetation Coverage (once a year)</b>		
100% coverage established throughout system by first year	S U	
80% minimum coverage by year 2 or later	S U	
<b>Mulch Depth (if applicable)(once every 2 years)</b>		
Mulch at original design depth after tilling or replacement	S U	
<b>Vegetation Health (once every 3 years)</b>		
Dead or decaying plants removed from the system	S U	
<b>Tree Pruning (once every 3 years)</b>		
Remove dead, diseased, or crossing branches	S U	
<b>Corrective Action Needed</b>		<b>Due Date</b>

Anti-icing Data Log Form			
Truck:			
Date:			
Air Temperature	Pavement Temperature	Sky	
Reason for applying:			
Road Name:			
Chemical: Sand/Salt - Salt - Other (List below) (Circle one)			
Application Time:			
Application Amount:			
Name:			