



GENERAL MAINTENANCE CARD

Stormwater Coalition of Albany County

Facility: Wetland – Pocket Wetland (W-4)

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MAJOR AREAS OF PRACTICE

- | | |
|--------------------------|-------------------------------------|
| A) Maintenance Accessway | E. Outlet Structure with Trash Rack |
| B) Swale | F. Outfall |
| C) Sediment Forebay | G. Emergency Spillway |
| D) Micropool | |

PURPOSE AND FUNCTION

A shallow wetland design, adapted for the treatment of runoff from small drainage areas, that has variable water levels and relies on groundwater for its permanent pool.

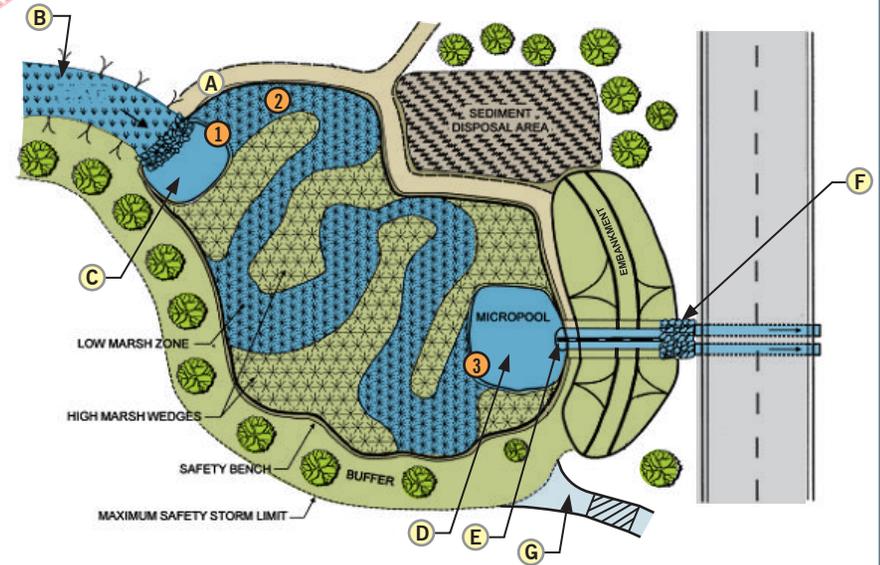
SHORT-TERM MEASURES (FREQUENCY: AT LEAST ONCE A MONTH)

Drainage Issues:

- Inspect wetland surface area.**
 - Remove accumulated debris/floatables manually or by other approved means, if required. Dispose of debris off-site.
 - Note the existence of excessive algae, if present.
- Inspect the swale (Location B) and sediment forebay (Location C).**
 - Remove accumulated debris/floatables near the swale approach and discharge channels manually or by other approved means, if required. Dispose of debris off-site.
 - Note any displaced field stone.
- Inspect the outlet structure (Location E) and note cracks/damage, if any.**
 - Manually remove debris accumulated on the trash rack; dispose of debris off-site.
- a. Outfall (Location F).
 - Remove accumulated debris/floatables near the outfall spillway approach and discharge channels manually or by other approved means, if required. Dispose of debris off-site.
 - Note any displaced field stone.
- Inspect the emergency spillway (Location G).**
 - Vegetated emergency spillway channels should be mowed and should not be cut to less than 6 to 8 inches in height.
 - The emergency spillway approach and discharge channels should be cleared of brush and other woody growth.
 - After any flow has passed through the emergency spillway, the spillway crest (control section) and exit channel should be inspected for erosion. Note location of any eroded areas.
- Inspect adjacent catch basin grates and manhole covers.**
 - Remove accumulated debris; dispose off-site.

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SIDE A



Landscaping Issues:

- Inspect overall condition of installed vegetation.**
 - Remove vegetative invasives manually, ensuring root removal, to the extent possible. Note any significant establishment for future removal/maintenance.
 - During the growing season, mow grass cover of swale (Location B), as required.
 - Relocate rodents and/or provide exclusion devices, as required.
 - Trim shrubs and cut grass along street frontages, as required.

Perimeter Treatment:

- Inspect overall condition of the perimeter treatment items.**
 - Remove accumulated litter/debris by hand; dispose off-site.
 - Promptly notify NYSDEC police regarding illegal dumping.
 - Secure gates, guiderails, signs, and boulders, as required.

MODERATE-TERM MEASURES (FREQUENCY: ONCE EVERY SIX MONTHS)

Drainage Issues:

- Measure the sediment depth in sediment forebay and micropool (Locations C & D).**
- Remove sediment/debris from sediment disposal area, as required.**
- Inspect the swale (Location B) and sediment forebay (Location C)**
 - Replace displaced field stone, as required.
- Inspect the outlet structure (Location E) and micropool (Location D).**
 - Repair cracks/damage to outlet structure, as required.
 - Replace displaced field stone, as required.

5. Inspect the emergency spillway (Location G).

- Repair and stabilize eroded areas in the exit channel, as necessary.

6. Inspect for unstable embankments.

- Repair/reinforce unstable embankments using field stone, plantings, etc.

Landscaping Issues:

7. Inspect plant mortality.

- Remove dead plants by hand; dispose off-site; replant as required.
- Trim and remove specified trees, as required.

8. Inspect for significant establishment of invasives and develop an area-wide plan for removal.

9. Inspect for herbivore damage.

- Repair burrows/damage created by rodents, as required.
- Introduce alternative plantings, as required.

Perimeter Treatment:

10. Lubricate locks and hinges on gates, as required.

11. Refurbish wood chips on accessway and site perimeter, as required.

12. Inspect and repair damaged sidewalks, fencing, guiderail, and signs, as required.

LONG-TERM MEASURES (FREQUENCY: AFTER SECOND GROWING SEASON)

Landscaping Issues:

1. Inspect the Low Marsh and High Marsh zones.

- If a minimum coverage of 50% is not achieved in the planted wetland zones after the second growing season, a reinforcement planting is required.
- Ensure that adequate water depth is maintained for desired wetland plant species.
- Ensure survival of desired wetland plant species and that the distribution is in accordance with the landscaping plan. Replace plantings and revise landscaping plan, as required.

LONG-TERM MEASURES (FREQUENCY: ONCE EVERY TWO YEARS)

Drainage Issues:

1. Remove sediment from sediment forebay/micropool and adjacent catch basins; vactoring recommended.

DEWATERING PROCEDURE AT FOREBAY/MICROPOOL

The forebay/micropool must be dewatered before proceeding with vactoring operations. A NYSDEC-approved technique must be adopted to isolate the forebay/micropool prior to dewatering.

Methodology:

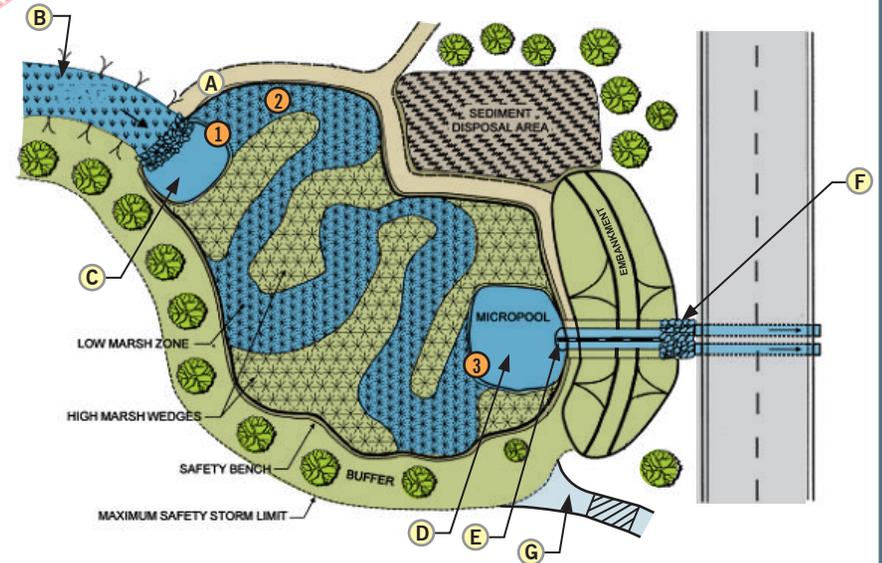
1. Park the vactor truck along the maintenance accessway near the inlet (Location A). The boom should be extended in the direction of the forebay/micropool.
2. Ensure clear access for a two-person crew down the slope near the forebay/micropool (Locations C & D).
3. Using a NYSDEC-approved technique/tool, such as a sand bag wall, isolate the forebay/micropool by erecting the sand bag wall perpendicular to the direction of flow at Locations 1 & 3).
4. The sand bag wall should extend up the slopes of the safety bench beyond the edge of water to ensure no flow conveyance.
5. Pump out water from the forebay to the low marsh zone downstream (Location 2) or in the case of the micropool, to a sediment tank on the other side of the embankment.
6. Proceed with vactoring operations.
7. On completion of vactoring work, disassemble the sand bag wall manually and remove from site.

VACTORING PROCEDURE AT FOREBAY/MICROPOOL

Methodology:

1. Connect the vactor truck to an approved nearby source of clean water for vactoring purposes.
2. Place water jet hose down the slope of the forebay/micropool (Locations C & D). Use hose to loosen accumulated sediment.

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3. Place the flexible suction hose into the forebay/micropool (Locations C & D).
4. Perform vactoring operations by simultaneously using the suction arm and water jet hose to remove slurry until the rip-rap base is reached.
5. Continue slurry removal until capacity of vactor truck is reached.
6. Stop vactoring work. Dispose of slurry off-site.
7. Repeat Steps 1-6 until all the sediment has been removed.
8. After vactoring work is complete, carefully remove the flexible suction hose and the water jet hose from the forebay/micropool, and transport them back to the truck.
9. Inspect the accessway and adjacent area for damage, such as dislodged field stone, wood chips, etc., and refurbish as required.

Note: Secure locks on gates as necessary prior to exiting site.

Required Maintenance Permits	
Issuing Agency	Regulated Parameters
1. U.S. Army Corps of Engineers	- Sediment Removal and Placement of fill within wetlands
2. NYSDEC	- Temporary dewatering of wetland - Revegetation - Herbicide application

Maintenance Considerations During Design
- Erosion and Sediment Control <ul style="list-style-type: none"> ▪ Inlet/Outlet Protection ▪ Sediment Removal
- Landscaping
- Mechanical Issues
- Pond Drain
- Maintenance Access
- Cold Climate Considerations