



# Richland County's Post-Construction Pond Management Program

---

SESWA SPRING WORKSHOP

PRESENTER: SYNITHIA WILLIAMS

RICHLAND COUNTY STORMWATER MANAGER

# Post Construction Program

---

## Permit Requirements:

Inventory of all post construction stormwater controls

Initial post-construction inspection 30 days after completion of a project

Routine inspection at least once a permit cycle

Document all inspections and findings







# Enforcement



## Richland County

### Private Pond Inspection Checklist

Date: \_\_\_\_\_ Inspected By: \_\_\_\_\_ Address: \_\_\_\_\_

**Observations:**

Standing water? Yes No Depth: \_\_\_\_\_ time: \_\_\_\_\_ type: \_\_\_\_\_

Obstructions or erosion in vicinity of the pond that could affect performance? Yes No \_\_\_\_\_

**Notes:**

Sides/slopes/bottoms show signs of settling, cracking, sloughing or other problems? Yes No \_\_\_\_\_

Spillways, emergency spillway (if applicable), or side slopes show any erosion or instability? Yes No \_\_\_\_\_

Evidence of animal burrowing or other activity that could contribute to instability or increased erosion? Yes No \_\_\_\_\_

Evidence of encroachment into the pond or improper use of the pond? Yes No \_\_\_\_\_

Does pond need mowing? Yes No Are there areas that need to be re-vegetated? Yes No \_\_\_\_\_

Does pond need thinning, i.e. cattails, willows, trees? Yes No \_\_\_\_\_

Accumulation of trash, debris and/or litter to be removed? Yes No \_\_\_\_\_

Recreationalism or other activity that could affect performance of the pond? Yes No \_\_\_\_\_

Coloration about the waters of the pond? Yes No \_\_\_\_\_

Unusual odors about the waters of the pond? Yes No \_\_\_\_\_

Oil, any visible pollution? Yes No \_\_\_\_\_ Erosion at high water mark? Yes No \_\_\_\_\_

Unusually high water level? Yes No \_\_\_\_\_ Unusual Algae blooms? Yes No \_\_\_\_\_

Function at outlet, or trash rack (verify outlet structure operating properly) (May signal too many nutrients in runoff, identify clippings management)

**Openings:**

Inlets going into or out of the pond clogged or obstructed? Yes No \_\_\_\_\_

Drainage channel from the pond functioning appropriately? Yes No \_\_\_\_\_

Trickle channel working properly? Yes No N/A \_\_\_\_\_

Outlet or trash rack obstructed? Yes No \_\_\_\_\_

Drainage channel, trickle channel or other conveyance in need of repair? Yes No \_\_\_\_\_



## Private Pond Inspection Program

### Detention/Retention Ponds

Prepared By:  
**RICHLAND COUNTY**  
 Department of Public Works  
 Stormwater Management Division

**IMPORTANT**

*The attached stormwater management guidelines are provided as a courtesy and are based on general knowledge of maintenance required for these types of stormwater facilities. Richland County specifically disclaims any warranty, either expressed or implied, arising out of the use of these guidelines. The guidelines are not meant to replace or supersede any specific recommendations offered by a qualified professional.*

*Who is Stormwater Management and what is the Private Pond Inspection Program?*

In 1990, the Environmental Protection Agency (EPA) established The National Pollutant Discharge Elimination System (NPDES) to reduce the quantity of pollutants that may be transported through the Storm Sewer Systems to "Waters-of-the-State". The South Carolina Department of Health and Environmental Control (SCDHEC) Bureau of Water issued a NPDES Permit to Richland County in April 2000. In compliance with that Permit, Richland County has developed a Private Pond Inspection Program (PPIP) implemented by Richland County Stormwater Management Division. This program is used to inventory and inspect the maintenance of all Stormwater Treatment Facilities (STF)—such as stormwater ponds—in Richland County. These treatment facilities provide water quality protection and stormwater management for their surrounding communities. It is vital that an annual inspection and maintenance is performed on these structures in order for them to function as intended.

*What is the function of detention and retention pond?*

Stormwater facilities such as Detention/Retention ponds (also named Dry/Wet ponds) have two functions. First, they absorb or slow stormwater runoff from urban surfaces such as roads, parking lots, and rooftops. Second, they remove contaminants from the runoff before it enters a nearby waterway. Stormwater facilities can become clogged by trash, debris, sediment and mud, or other stormwater pollutants that cause the facility not to function as designed. The facilities themselves can develop structural cracks and leaks over time and need regular maintenance to prevent problems. Poor operation and maintenance is the leading cause of pond failure. Poor maintenance can also create unpleasant odors, nuisance insects, algae blooms and a generally unsightly, unkempt area.

Detention (Dry) ponds do not have standing water at all times, and may fail due to poor vegetation maintenance (infrequent mowing and weed control), clogged inlets from trash and debris, sediment accumulation, failed side slopes, and inadequate access for routine maintenance.

# Education

---

## POND MANAGEMENT WORKSHOP



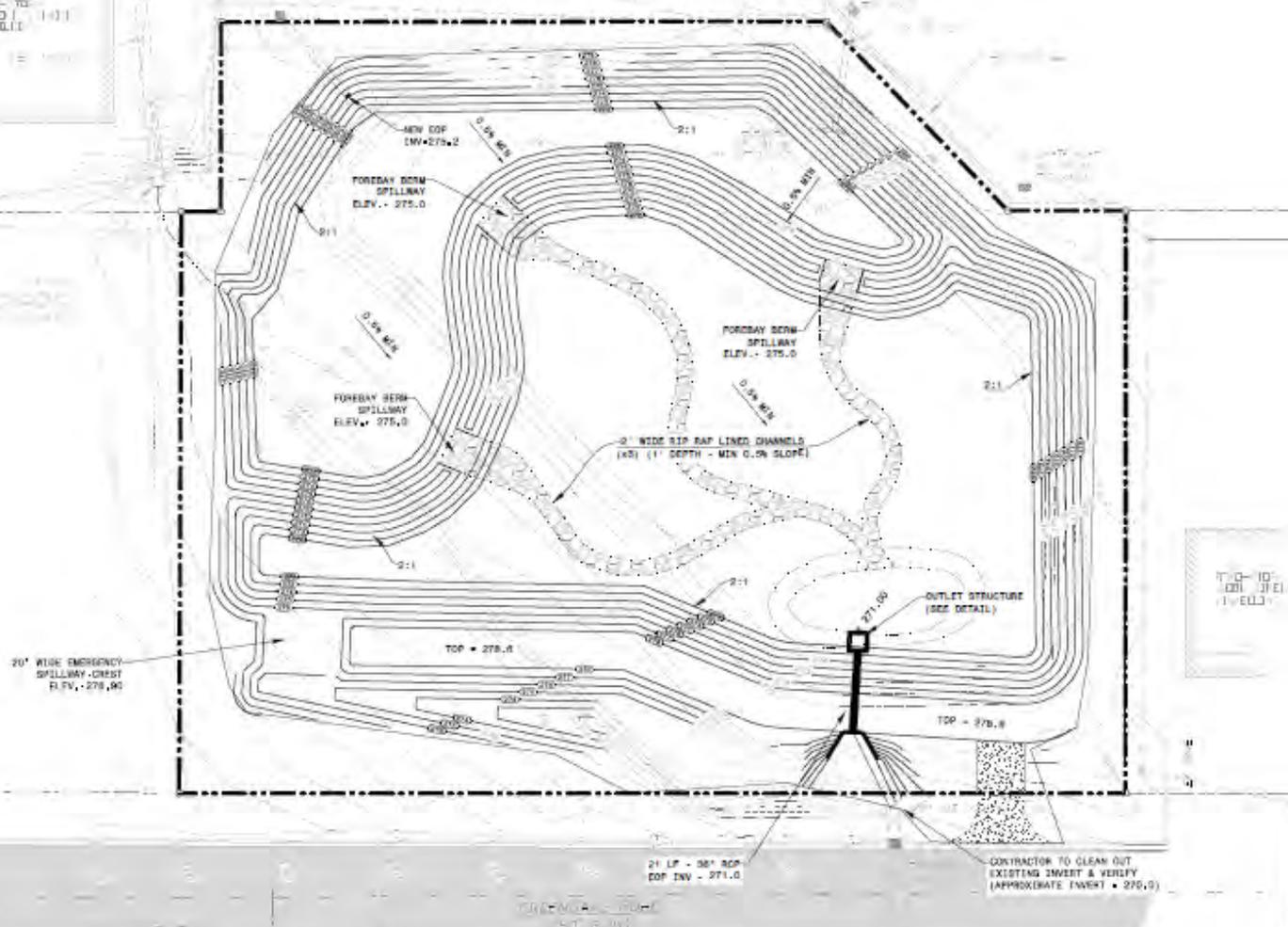
## BLUE THUMB LANDSCAPER



# Post Construction Renovation







# Greenoaks Pond

Jurisdictional wetlands

Possible mitigation credits

# Future Challenges/Goals

## Changing Expectations

- Post 2015 flood
- Dam advisory committee
- Outfall silt removal policy



## More Ponds added to inventory

- Work Order system
- More staff
- Asset management plan



# Wrap Up

---

Required  
inspection/enforcement  
program

Inspections + Education +  
Enforcement is key

Retrofit projects may present  
new challenges

Greater expectations from  
citizens



# Questions?

---



Synithia Williams

Richland County Stormwater Manager

[Synithia.Williams@richlandcountysc.gov](mailto:Synithia.Williams@richlandcountysc.gov)

803-576-2465

