



FLORIDA DEPARTMENT OF Environmental Protection

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Phase I Municipal Separate Storm Sewer System (MS4) NPDES Stormwater Audit Report

I. BACKGROUND INFORMATION

MS4 Permit Name: Palm Beach County
Permittee: Village of Wellington
Permit Number: FLS000018 (Cycle 4)
Annual Report Year: Year 2
Reporting Period: 10/2017 – 9/2018
Audit Date/Time: June 12, 2019 8:30 pm - 12:30 pm

Inspector(s):

Name	Title	Phone/ Email
Stephen Cioccia	Environmental Specialist	850-245-8568 Stephen.Cioccia@floridadep.gov

Permittee Representative(s) Maintenance Yard Site Visit & Records Audit:

Name	Title	Phone
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Bill Conerly	Public Works	
Dennis Flaherty	Public Works	
Michelle Diaz	Public Works/Administration	
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II. GENERAL COMMENTS

The purpose of the MS4 audit was discussed. The annual report submitted for year 2 was reviewed. Overview of MS4: Moderately extensive and well defined MS4 structural inventory; significant spatial area for MS4 to maintain (46 sq. mi.) with numerous grassed equestrian parcels. During the audit, a records review was conducted to verify the Cycle 4 Year 1 Annual Report and confirm the status of the permittee’s implementation of the Stormwater Management Program (SWMP) elements specified in Part III.A of the MS4 permit. The review required the permittee to make available all documentation/ records specified in Section VII, Column D of its Cycle 4 Year 1 Annual Report.

A group meeting for all co-permittees was held at the Northern Palm Beach County Improvement District's Offices from 10 – 11 am on 6/11/2019. The meeting addressed annual reporting requirements, common challenges/remedies and the Assessment Program.

III. SWMP IMPLEMENTATION REVIEW

A. **Ordinances/Codes Providing Adequate Legal Authority:** Ordinances reviewed
 N/A (Ordinance have been previously reviewed)

B. **Records/Procedures Documenting Implementation of the SWMP per the Annual Report**

1) **Major MS4 Outfalls Map & Inventory (per Section II and V of the AR):**

N/A Satisfactory Unsatisfactory, explain why:

2) **Records/Procedures Verification (per Section VII of the AR):**

Assessment Program

Satisfactory Unsatisfactory Not Applicable

Not discussed during audit.

Fiscal Analysis

Not discussed during audit.

TMDL Prioritization

Satisfactory Unsatisfactory Not Applicable

Not discussed during audit.

Part III.A.1: Structural Controls and Stormwater Collection Systems Operation

Satisfactory Unsatisfactory Not Applicable

General Comments: The permittee's MS4 is divided into five drainage basins which discharge via four Pump Stations and one water control structure to the canal running parallel to Southern Blvd. The Southern Blvd. canal's waters are transported to the permittee's wetlands stormwater storage and treatment area, the Wellington Environmental Preserve (Section 24). Treated stormwater leaves the preserve at the south-west corner of the Village to the C-51 Canal, with ultimate flow into the Everglades.

SOP Review: Reviewed the permittee's SOP for "Part III.A.1 -Structural Controls and Stormwater Collection Systems Operation' in association with the audit. The SOP demonstrated clear document structure, thorough inspection reports which appeared to contain the required elements upon review. The SOP checklists were in use and contained the essential observations to confirm nominal operation of the structural control BMPs.

Major Outfall Inventory: There has been no changes following the yr. 1 AR major outfalls map & inventory submittal. The permittee's major outfalls discharge via four Pump Stations and one water control structure to the canal running parallel to Southern Blvd.

Structural Control Inventory: The permittee's structural inventory is well defined and all required inspection frequencies were achieved.

Structural Control Inspections: The permittee achieved or exceeded all minimum required structural inventory inspection required frequencies for their Structural Control inventory elements.

Structural Control Inspection Documentation: Reviewed the required inspection documentation for the permittee's MS4 inventory elements of Major Outfalls, Dry Detention Pond and Pump Stations. The inspection checklists contained essential observations, adequate inspection documentation was present to confirm nominal function of BMPs, presence/absence of illicit discharge is recorded and number of inspections agreed with AR reported value.

Part III.A.2: Areas of New Development and Significant Redevelopment

Satisfactory Unsatisfactory Not Applicable

New/Redevelopment Projects: Not discussed during audit.

Summary of Year 2 Codes Review: Review submitted with the annual reporting activity was adequate.

Part III.A.3: Roadways

Satisfactory Unsatisfactory Not Applicable

General Comments: Not discussed during audit.

Litter Control / Street Sweeping: Adequate activity as reported in the current Annual Report.

Part III.A.4: Flood Control Projects

Satisfactory Unsatisfactory Not Applicable

General Comments: The permittee's discharge is routed to a 365-acre wetlands stormwater storage and treatment area. The project area is in the south-western corner of the Village. The project area is designed and constructed to primarily remove nutrients (predominantly phosphorous) from stormwater runoff. See Section IV for details on the site visit.

Part III.A.5: Municipal Waste Treatment, Storage, and Disposal Facilities

Not Covered by an NPDES Stormwater Permit

Satisfactory Unsatisfactory Not Applicable

Waste Storage Facilities: Not reviewed during audit.

Part III.A.6: Pesticides, Herbicides, and Fertilizer Application

Satisfactory Unsatisfactory Not Applicable

General Comments: Annual reporting activity was adequate.

SOP Review: Reviewed the permittee's SOP in association with the audit. The SOP appeared to contain the required elements.

Pesticide/Herbicide Applicator(s) License/Certification: Reviewed and confirmed the permittee possessed the FDACS certificates for their six staff applicators.

Permittee Fertilizer Applicator GI_BMP Training: The permittee reports 41 personnel which apply fertilizer within the MS4 have attended the training.

Contractor Fertilizer Applicator(s) License/Certification: The permittee confirmed they require their contract commercial applicators personnel to have completed the GI-BMP training.

Public Education: Not discussed during audit.

**Part III.A.7.a: Illicit Discharges and Improper Disposal —
Inspections, Ordinances, and Enforcement Measures**

Satisfactory Unsatisfactory Not Applicable

Not reviewed during audit.

**Part III.A.7.c: Illicit Discharges and Improper Disposal —
Investigation of Suspected Illicit Discharges and/or Improper Disposal**

Satisfactory Unsatisfactory Not Applicable

General Comments: Staff are observant for illicit discharges/improper disposal when conducting daily field activities. The permittee’s proactive inspections are concentrated on identified priority areas/facilities within the MS4.

SOP Review: Reviewed the permittee’s SOP in association with the audit. The SOP appeared to contain the required elements.

Proactive Inspections: The permittee’s proactive inspections are concentrated on identified priority areas/facilities within the MS4. Pro-active inspections are conducted by trained inspectors, including inspection for evidence of illicit discharges/improper disposal. A drive-around procedure is followed. The trained inspector(s) patrols the prioritized area searching for indications of illicit discharges/connections/dumping. If any are identified, the inspector either stops to do a Facility Inspection, a reactive investigation, or completes a work order form for the appropriate personnel to complete the investigation. Inspections include review of need/obtained MSGP permit. All areas with older infrastructure are inspected annually by Utility personnel and Engineering personnel. All areas with On-Site Sewage Disposal Systems are inspected annually by Code Enforcement personnel as part of Wellington's BMP program.

Reactive Inspections: Not reviewed during audit.

Enforcement: Initial enforcement handled by Inspectors, protracted enforcement conducted by Code Enforcement Officers.

Training: The permittee provided confirmation of attendance of inspectors during the required annual training (via attendance log) and provided examples of the training materials. It was discussed that any staff performing inspections should have training. Permittee personnel are trained through Mock-Roos training events/videos.

**Part III.A.7.d: Illicit Discharges and Improper Disposal —
Spill Prevention and Response**

Satisfactory Unsatisfactory Not Applicable

Spills: Adequate activity conducted during reporting period.

Training: The permittee conducted the required annual training.

**Part III.A.7.e: Illicit Discharges and Improper Disposal —
Public Reporting**

Satisfactory Unsatisfactory Not Applicable

Website/Phone: Not reviewed during audit.

Public Education: Not reviewed during audit.

**Part III.A.7.f: Illicit Discharges and Improper Disposal —
Oils, Toxics, and Household Hazardous Waste Control**

Satisfactory Unsatisfactory Not Applicable

Solid Waste department: Not reviewed during audit.

Public Education: Not reviewed during audit.

**Part III.A.7.g: Illicit Discharges and Improper Disposal —
Limitation of Sanitary Sewer Seepage**

Satisfactory Unsatisfactory Not Applicable

General Comments: Permittee has attempted to obtain information from the sanitary system owner (P.B. County) re: activities to reduce I/I & SSOs, have not been able to obtain details on I/I & SSOs from the sanitary system owner.

**Part III.A.8.a: Industrial and High-Risk Runoff —
Identification of Priorities and Procedures for Inspections**

Satisfactory Unsatisfactory Not Applicable

High risk facilities: The permittee indicated in the AR there are ten HRF facilities (all HWTSDR) within the MS4 system's area during this reporting period. Discussed with the permittee the option to designate local sources/activities with a high potential to discharge to the MS4 or problematic activities as 'Facilities determined as high risk by the permittee'.

**Part III.A.8.b: Industrial and High-Risk Runoff —
Monitoring for High Risk Industries**

Satisfactory Unsatisfactory Not Applicable

Monitoring: Not reviewed during audit.

**Part III.A.9.a: Construction Site Runoff —
Site Planning and Non-Structural and Structural Best Management Practices**

Satisfactory Unsatisfactory Not Applicable

General Comments: The permittee’s MS4 service area is predominately built-out, only minor re-development activities occur.

Site Plan Review: The permittee indicated there were no construction site plan reviews conducted during the reporting period.

CGP/ERP Permit Notification/Confirmation Process: No construction project applicants met the threshold for CGP or ERP notification/confirmation during this reporting period. Confirmed a process is in-place should a construction activity require this SWMP element.

**Part III.A.9.b: Construction Site Runoff —
Inspection and Enforcement**

Satisfactory Unsatisfactory Not Applicable

SOP Review: Reviewed the permittee’s SOP in association with the audit. The SOP appeared to contain the required elements upon cursory review.

General Comments: Construction site inspections for E&SC BMPs are the responsibility of the Engineering and Construction Services Department and are conducted using the construction site inspection form contained in this element’s SOP.

Permittee or Private construction sites: It was discussed that the inspection checklist submitted with the Standard Operating Procedure (SOP) be used for E&SC inspections where conducted. The need to ensure that E&SC inspections are being performed throughout the life of each construction project was discussed along with the permit’s inspection frequency minimum requirement.

Enforcement: Instances of non-compliance will be handled with successively more rigorous enforcement measures. The permittee’s enforcement actions include the issuance of NOV, imposition of Stop Work order and fines. Enforcement process is described in the permittee’s SOP.

**Part III.A.9.c: Construction Site Runoff —
 Site Operator Training**

- Satisfactory Unsatisfactory Not Applicable

Inspector E&SC Training: Confirmed documentation of E&SC certification for all active construction BMP inspectors. Adequate annual training was conducted during the reporting period. Documentation of annual/refresher training for inspectors and plan reviewers was confirmed.

IV. SITE VISIT – MS4’s STORMWATER TREATMENT AREA

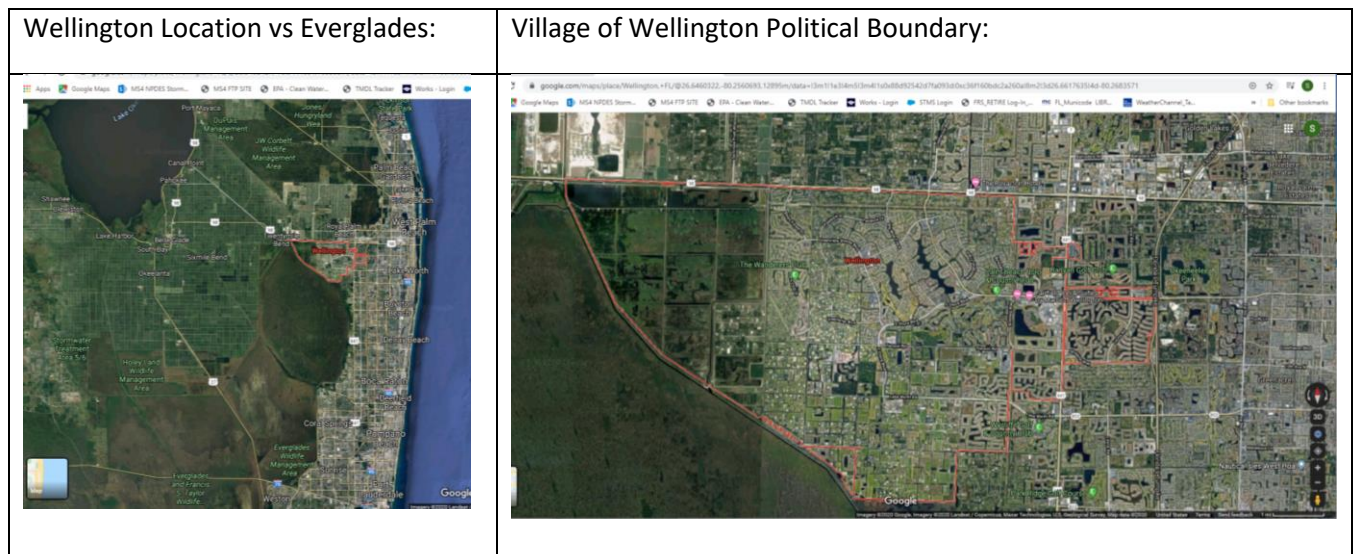
- Satisfactory Unsatisfactory Not Applicable

Site Type: Stormwater Treatment Facility/Manmade Wetland Area

Site Name: Wellington Environmental Preserve (Section 24)

Applicable Permit Provision(s): Part III.A.4 Flood Control/CIP

Comments/Observations: The project is a 365-acre wetlands stormwater storage and treatment area, the Wellington Environmental Preserve (Section 24). The project area is in the south-western corner of the Village. The project area is designed and constructed to primarily remove nutrients (predominantly phosphorous) from stormwater runoff from the Village of Wellington. The treatment area is designed to capture a one-inch rainfall event from the southern half of the Village (more than 9,000 acres) and accomplish treatment of the permittee’s stormwater discharges. The permittee’s stormwater flows are directed through the preserve’s wetlands cells, accomplishing phosphorous concentration reduction and sediment removal. As the water leaves the area at the south-west corner of the Village, it is pumped to the C-51 Canal with ultimate flow into the Everglades. The site also serves as a recreational and nature viewing area for the community, providing an ecological habitat for a variety of species.



Wellington Environmental Preserve (Section 24) Location:

