



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 MS4
Permittee: City of Lake Worth
Permit Number: FLS000018 (Cycle 3)
Annual Report Year: Year 6
Reporting Period: 09/2015 – 09/2016
Audit Date/Time: June 20, 2017 2:10 pm – 5:00 pm

Inspector(s):

Name	Title	Phone/ Email
Michelle Bull	MS4 Coordinator	(850) 245-7561 Michelle.Bull@dep.state.fl.us

Permittee Representative(s):

Name	Title	Phone
Jamie Brown	Public Services Director	(561) 586-1720 jbrown@lakeworth.org
Judy Love	Water Utilities Water Sewer Supervisor	(561) 586-1719 jlove@lakeworth.org
Felipe Lofaso	Public Services Assistant Director	(561) 586-1720 flofaso@lakeworth.org
Eric Polacek	Water Utilities Financial Budget Analyst	(561) 236-9767 epolacek@lakeworth.org
Alan Wertepny	Mock-Roos MS4 PBC Coordinator	(561) 683-3113 alan.wertepny@mockroos.com

II. GENERAL COMMENTS

The City is approximately seven square miles with 116 miles of roadway. The area is on a ridge that drains well. The City provides water, sewer and power to residents. The City has done multiple energy-saving activities, including upgraded lighting to LED in City offices and street lights. The City has also installed a solar farm at the closed landfill. The farm will provide 2% of the City's energy, and the City has plans to add more solar panels in the future.

The City had recently undergone a reorganization. Street sweeping is handled by Public Services. Inspections and maintenance is performed by Water/Sewer.

III. SITE VISITS

Satisfactory Unsatisfactory Not Applicable

Site Type: Municipal Maintenance Yard

Site Name and Location: Public Services Department – Fleet Maintenance Yard

Applicable Permit Provision(s): Part III.A.3

Observations: The facility has a maintenance garage, including two fueling stations, a roll off for used tires, a roll off for C&D debris, a trash dumpster, and a grass lot for old equipment. The parking lot was recently repaved and looked well maintained. The maintenance shop was covered.

During the inspection, one storm drain had a sheen. A pallet of used engine parts was stored uncovered. The trash dumpster had 2 open paint cans. Two 55-gallon metal drums with chemicals were uncovered, and the tops were rusting, and 5-gal buckets with silicone were damaged.



Required Improvements: Within 30 days of the audit report, confirm the following housekeeping procedures are in place. Update inspection checklist as needed.

- Engine parts that may still have chemicals are stored under cover.
- Dispose of trash in dumpster, not construction bin.
- Keep trash dumpster covered.
- Store waste chemicals under cover, in a bermed area, or dispose.
- Periodically clean litter from yard.

IV. SWMP IMPLEMENTATION REVIEW

Monitoring Program

Satisfactory Unsatisfactory Not Applicable

Not reviewed during audit.

Fiscal Analysis

Not reviewed during audit.

TMDL Prioritization

Satisfactory Unsatisfactory Not Applicable

TMDL Prioritization Plan: Approved. No TMDL implementation required.

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

Satisfactory Unsatisfactory Not Applicable

Major Outfall Inventory: Reported 46 outfalls, which includes major and non-major. Discussed updating the inventory and reporting major outfalls in future annual report.

Structural Control Inspections: Staff changes caused different tracking in Year 6. In Year 6, dry retention, exfiltration trenches and the pump station were inspected quarterly by Felipe Lofaso and mowed by a contractor. Discussed cleaning high trash area more often.

Grass treatment swales, wet detention system, pollution control boxes (Suntree Technologies-last structure before an outfall), weir and ditches were inspected monthly by Felipe Lofaso. When structures needed to be cleaned, inspector reported to the Stormwater section to be cleaned within the week.

Catch Basins: The City is divided into four districts with neighborhood associations. Catch basins discharge to large outfalls. Neighborhoods are inspected and the number of structures for each neighborhood is known. Inspection reports not available.

The City was moving to a new tracking process including GIS with picture capabilities. Judy Love has had some stormwater pipes TV'd and installed Tideflex check valves at two outfalls to prevent flooding from Spring/King tides. Staff are planning on adding more pollution control boxes upstream of outfalls over the next few years. Staff have attended FW&PCOA voluntary Stormwater Operator Certification training.

Required Improvements: Within 30 days of the audit report, submit an updated Standard Operating Procedure to include the current inspection tracking process. In the future annual report, update and submit the major outfall inventory.

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

Satisfactory Unsatisfactory Not Applicable

Since the 1970's, the City has required development to retain first one inch of rain before discharging.

Part III.A.3: Roadways

Satisfactory Unsatisfactory Not Applicable

Litter Control: Reviewed the weekly log of debris measured by five-gallon bucket collected by the groundskeeper and vegetation maintenance staff. Litter and sweeping debris is stored in a roll off and taken to the transfer station weekly.

Street Sweeping: Reviewed tipping tickets and sweeper logs. Sweeping of the entire City was increased to twice a month. The City was approved to purchase a mechanical sweeper for parking lots, etc. to supplement the sweeping contract. US Sweeping dumps sweeping debris to two City roll offs. Year 6 included internal sweeping.

Road Maintenance Yards: Garage with heavy equipment, fueling and vehicle maintenance. Streets yard stores excavator, pumps, sweepers (now contracted), waste vehicles (garbage trucks) and stockpile millings. Inspections showed needed maintenance April and August.

Required Improvements: In future reporting periods annual inspect and report the roll off site. In future reporting periods, use separate inspection checklists for the City facilities.

Part III.A.4: Flood Control Projects

Satisfactory Unsatisfactory Not Applicable

Checking drains before rain to prevent flooding issues. Have some flooding issues.

**Part III.A.5: Municipal Waste Treatment, Storage, and Disposal Facilities
Not Covered by an NPDES Stormwater Permit**

Satisfactory Unsatisfactory Not Applicable

Not reviewed during audit.

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

Satisfactory Unsatisfactory Not Applicable

Not reviewed 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

Proactive Inspections: Inspections are performed during structural inspections by Felipe Lofaso. See Part III.A.1. The City also maintains a list of all commercial business that have a potential to impact the MS4 and perform windshield inspections of some facilities annually. Discussed doing proactive inspections during Fat-Oil-Grease (FOG) inspections.

Reactive Inspections: See Part III.A.7.e

Training: Felipe Lofaso was not trained during reporting year. Previous Supervisor was trained, but left position. Discussed providing education to facilities as needed.

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

Satisfactory Unsatisfactory Not Applicable

Spills: Reported five gas leaks due to contractor work. Discussed not reporting incidents that do not have the potential to impact the MS4.

Training: Fire Department.

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

Satisfactory Unsatisfactory Not Applicable

Website/Phone: Public Services number. Website has a “report a roadway issue” section.

Public Education: Have a FOG flier.

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

Satisfactory Unsatisfactory Not Applicable

Solid Waste department: County

Public Education: Website refers to County.

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

Satisfactory Unsatisfactory Not Applicable

Not reviewed during audit.

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

Satisfactory Unsatisfactory Not Applicable

High risk facilities: Staff in attendance could not locate the High-Risk Facility list. Since the audit, the City has developed a HRF list and performs inspections.

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

Satisfactory Unsatisfactory Not Applicable

Monitoring: See above.

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

Satisfactory Unsatisfactory Not Applicable

Site Plan Review: Building Department reviews permits. Review checklist includes CGP and ERP permit and SWPPP review. The City has ordinances for inspections and require copies of permits. Reviewed site plans for 3 city projects.

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

Satisfactory Unsatisfactory Not Applicable

Inspections: Policy Manual requires Public Services to inspect for structures. Reviewed inspection checklists, very thorough.

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

Satisfactory Unsatisfactory Not Applicable

Not reviewed during audit.