SESWA Annual Conference

The department will provide a safe transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of our environment and communities.

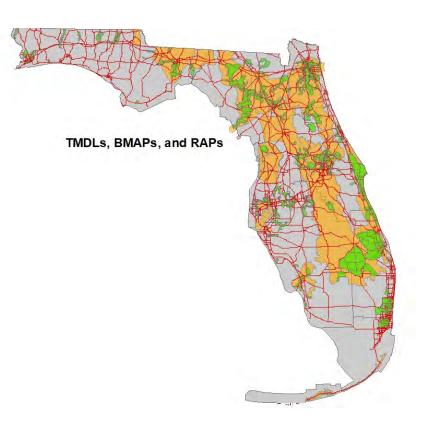
Presentation Outline

- Introduction to FDOT's MS4 Program
 - The Numbers
 - NPDES Guidance Document
 - Statewide Stormwater Management Plan
 - Asset Maintenance Guidance Document
- Training
 - Illicit Discharge Detection and Elimination (IDDE)
 - Spill Prevention and Response
- Statewide Stormwater Asset Management System (SAMS) (E-Maintenance)
- FDOT Partnering ELA and WATERSS



The Numbers

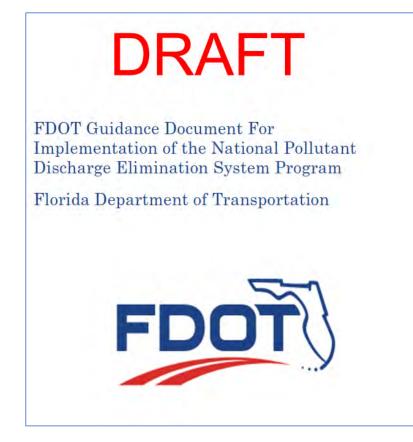
- FDOT is a co-permittee on 15 Phase I MS4 permits and holds 13 Phase II permits covering 31 counties
- Annual Cycle 3 implementation costs (Phase I only) were about \$30 million
- Facilities include 12,670 total miles of roadway and 7,480 miles of "regulated" roadway
- Stakeholder in nearly 400 adopted or draft TMDLs, 33 TMDL implementation plans (BMAPs), and 4 reasonable assurance plans





NPDES Guidance Document

- Provide staff with an understanding of FDOT's roles and responsibilities under the NPDES program and assist with program implementation statewide
- Facilitate staff transitions within Districts' NPDES programs





NPDES Guidance Document

- Structured in two parts:
 - ✓ NPDES Program Background and Purpose
 - Regulatory authority
 - FDOT program administration
 - Covered discharges and basic permit descriptions
 - FDEP's watershed management approach
 - ✓ NPDES Program Implementation within FDOT
 - FDOT authority and limitation
 - MS4 permits
 - Construction activities
 - Industrial activities
 - Program funding
 - TMDLs and TMDL implementation plans (BMAPs)
 - Permit enforcement



DRAFT

FDOT Guidance Document For Implementation of the National Pollutant Discharge Elimination System Program

Florida Department of Transportation



Statewide Stormwater Management Plan

- Outlines FDOT Stormwater Management Program to be implemented statewide
- Outlines the general actions FDOT's eight Districts must take to comply with Phase I MS4 permits
- FDOT updating in 2020 to include Phase II permits







Florida Department of Transportation Statewide Stormwater Management Plan

September 2012



Asset Maintenance Guidance Document

- Guidance document for stormwater asset maintenance
 - Wet and dry ponds
 - Dry treatment grass swales (including ditch blocks)
 - Exfiltration trench/French drain systems
 - Pollution control boxes
 - Major stormwater outfalls/canals
 - Collection systems and conveyances
 - Stormwater pump stations



Rating Summary

- Control Structure Poor
 - Orifice Poor Orifice is clogged with debris
 - Skimmer Fair Vegetation blocking more than 25 percent but less than 50 percent of opening and is intruding into structure chamber
 - Chamber Poor Grate is missing
- Hydraulic Recovery Likely poor due to blocked orifice

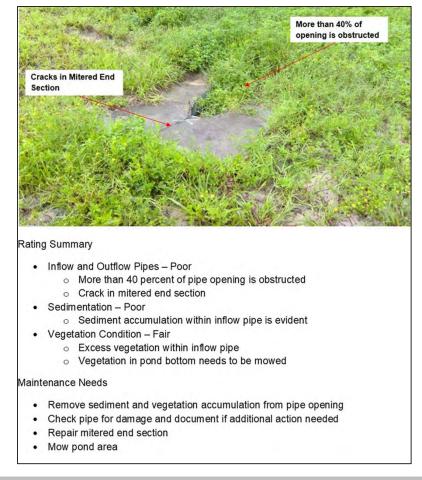
Maintenance Needs

- · Remove debris from orifice
- Replace missing grate
- Clear vegetation from skimmer



Asset Maintenance Guidance Document

- Promote statewide consistency in stormwater asset maintenance
 - Developed in Conjunction with Stormwater Asset Maintenance System (SAMS)
- Facility condition rating categories
 - Structural
 - Water (wet ponds)
 - Erosion
 - Aesthetics
 - Hydraulic Recovery
 - Vegetation
- Electronic format with example photos





FDOT IDDE and Spill Response Training

- Training for all FDOT maintenance personnel and contractors
- Training requirement incorporated into contract specifications
- Publicly available online in both English and Spanish
- Certificate printed upon completion
- Trainees provided with information cards to report illicit discharges and spills





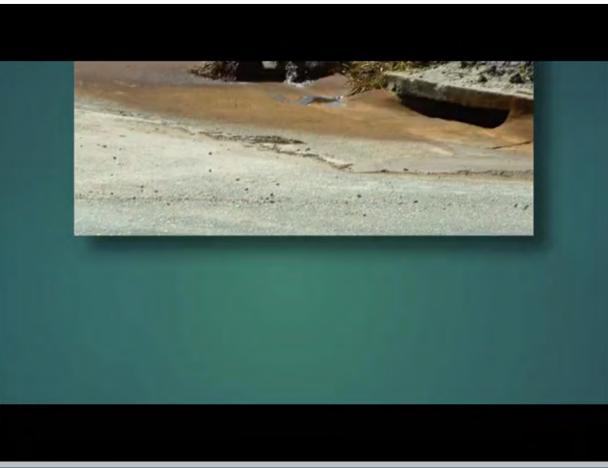
Training – Illicit Discharge Detection and Elimination (IDDE)

- Provide basic awareness training to identify an illicit discharge, connection and dumping to FDOT's MS4
- Inform personnel and contractors on procedure for reporting illicit discharges
- Fulfill MS4 permit requirements for proactive inspections and training

Detecti	Tier 1 Illicit Discharge Detection and Elimination Training FDOT						
To re	eceive a certificate for this training, you must watch the entire video. "Scrubbing" forward in the video has been disabled.						
	Illicit Discharge Detection and Elimination Training sh Version (14:22, Streaming Video)						
Tier 1	Illicit Discharge Detection and Elimination Training (Spanish) ón en Español (14:51, Streaming Video)						
Conta • Engli	ict Info Cards ish Version ón en Español						
	This page maintained by OCM Multimedia Submit comments about this page to <u>OCM Multimedia</u> or contact us at (<u>850) 410-5432</u> .						
	Report Technical Problems to the FDOT Service Desk: <u>1 (866) 955-4357</u> or email FDOT Service Desk.						
	© 2009-2019 Florida Department Of Transportation "All Rights Reserved"						



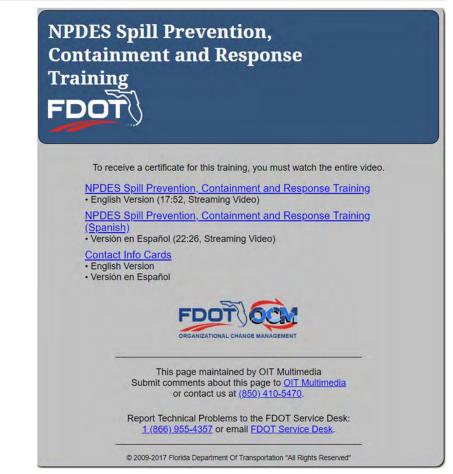
Training – Illicit Discharge Detection and Elimination (IDDE)





Training – Spill Prevention and Response

- Provide training to address spills at FDOT facilities or along FDOT right-of-way during routine maintenance work
- Not intended to replace existing protocols for spill response related to vehicle accidents, onroad incidents, or spills during construction activities
- Fulfills the MS4 permit requirement





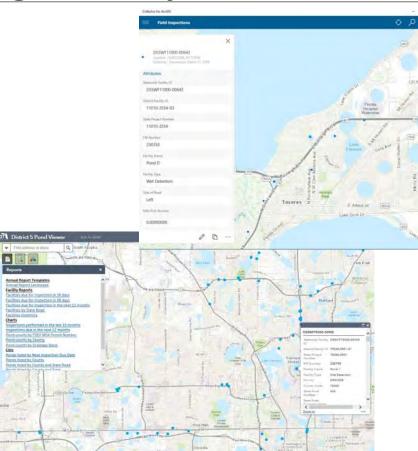
Training – Spill Prevention and Response





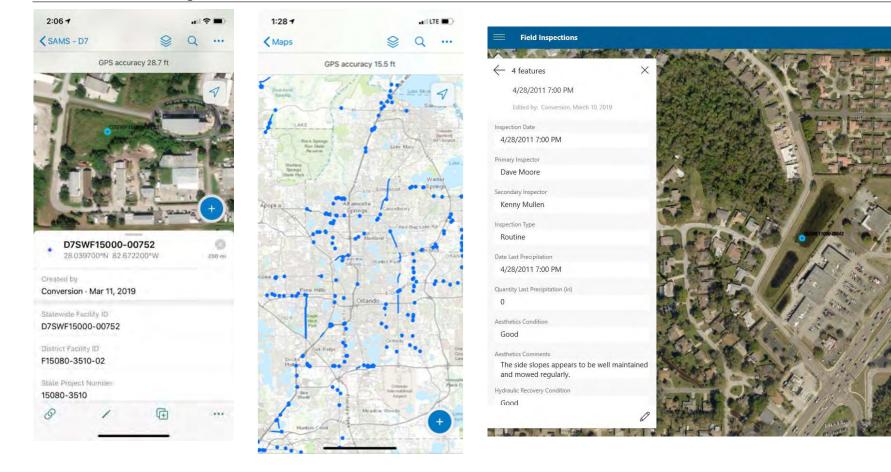
Statewide Stormwater Asset Management System - SAMS

- FDOT is developing a statewide stormwater asset management system
- Under FDOT E-maintenance
 initiative
- ESRI GIS online
- Promote statewide consistency in management of stormwater





SAMS Inspections





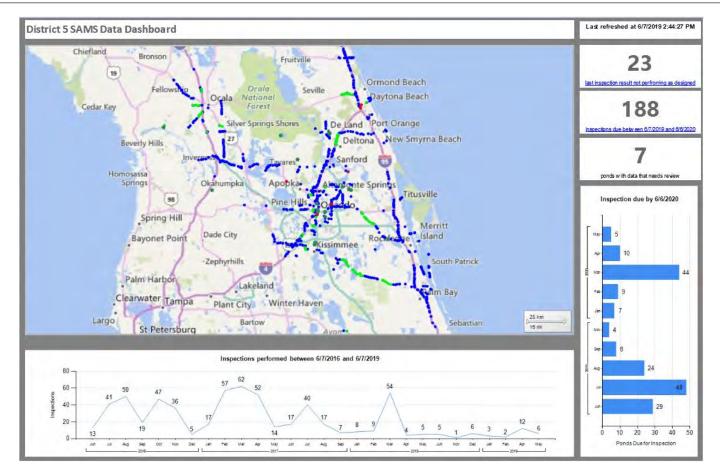
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SAMS Viewer and Reporting

-	FDOT 196 Facility Inspections are due by 4/28/2020								
County	Facility ID	FM Number	State Road	Facility Type	Last Inspection Date	Last Inspection Result	Next Inspection Due		
BREVARD									
	D5SWF70000-00811	413072	9	Wet Detention	3/20/2018	Performing as designed and permitted	3/20/2020		
	D5SWF70000-00795	237421	507	Wet Detention	1/17/2018	Performing as designed and permitted	1/17/2020		
	D5SWF70000-00814	413072	9	Wet Detention	3/20/2018	Performing as designed and permitted	3/20/2020		
	D5SWF70000-00801	242266	9	Wet Detention	3/14/2018	Performing as designed and permitted	3/14/2020		
	D5SWF70000-00802	242266	9	Wet Detention	3/14/2018	Performing as designed and permitted	3/14/2020		
-	D5SWF70000-00809	413072	9	Wet Detention	3/20/2018	Performing as designed and permitted	3/20/2020		
	D5SWF70000-00815	413072	9 528	Wet Detention Dry Retention	3/20/2018	Performing as designed and permitted Performing as designed and	3/20/2020		
	D5SWF70000-00233	237421	507	Dry Retention		permitted Performing as designed and	1/17/2020		
	D5SWF70000-00232	237421	520	Wet Detention	1/17/2018 4/18/2018	permitted Performing as designed and	4/18/2020		
	D5SWF70000-00841	237466	520	Wet Detention	4/18/2018	permitted Performing as designed and	4/18/2020		
	D5SWF70000-00816	413072	9	Wet Detention	3/20/2018	permitted Performing as designed and	3/20/2020		
	D5SWF70000-00236	404601	528	Dry Retention	3/5/2018	permitted Performing as designed and	3/5/2020		
		Constant of				permitted			
	D5SWF70000-00803	242266	9	Wet Detention	3/14/2018	Performing as designed and permitted	3/14/2020		
	D5SWF70000-00810	413072	9	Wet Detention	3/20/2018	Performing as designed and	3/20/2020		



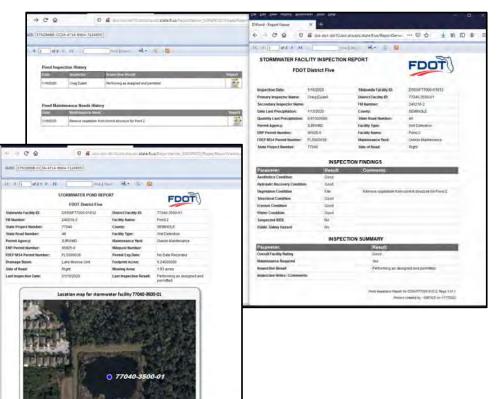
SAMS Dashboard





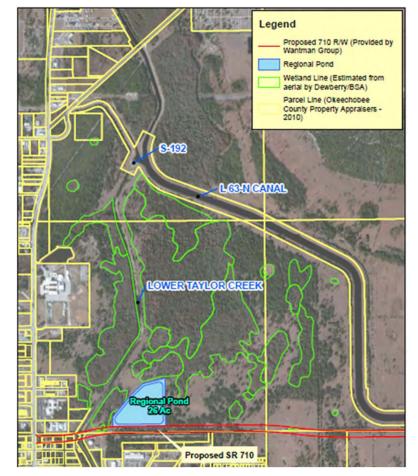
SAMS Benefits and Cost Savings

- Statewide consistency in overall MS4 compliance program (previously 8 different approaches)
- Average of 30% pond inspection cost savings in first year of implementation
- Ease of data access Statewide
- FDOT Asset Maintenance Contractors using to identify issues



FDOT Partnering – ELA and WATERSS

- Environmental Look Around (ELA) Now
- Watershed Approach to Evaluate Regional Stormwater Solutions (WATERSS) – ??
- Each program looking to promote cost-effective regional solutions for treatment early in the FDOT process
- Built into FDOT process
- Innovative partnering (septic system removal monies)

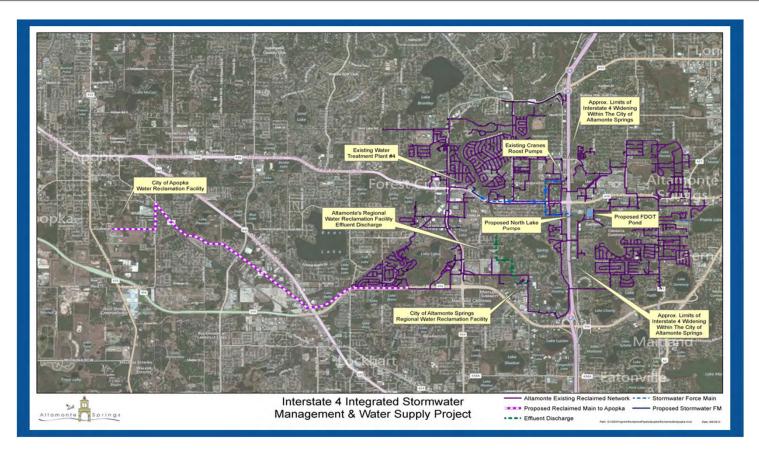


Seminole County Regional Stormwater Facility



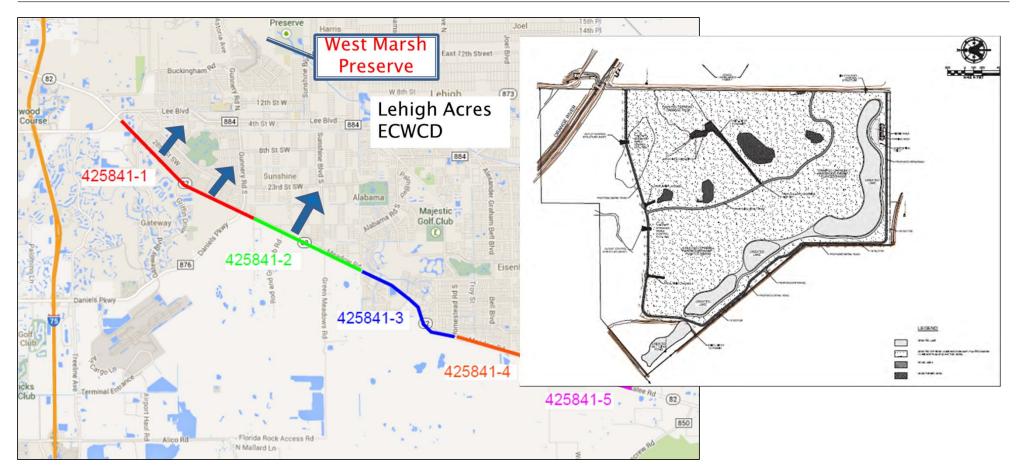


A-First - I-4 Integrated Stormwater Project





SR 82 Corridor





Thank you!

