

**Data, Monitoring and Investigations
Team (DMIT)**

**DMIT Hydrogeologic
Annual Work Plan
(FY2018-FY2020)**



**CFWI Steering Committee Meeting
January 19, 2018**

Goal of DMIT

“Ensure that available hydrologic, environmental, and other pertinent data collected throughout the region are identified, inventoried, and accessible to support the CFWI technical initiatives and CFWI regulatory activities.”



Major DMIT Tasks

- Create an inventory of existing monitoring data (DMIT CFWI Inventory)
 - Metadata and link to data source
- Determine additional data collection needs and develop a work plan to meet those needs
 - Gap Analysis
 - Regional Monitoring Program Summary Report (June 2014)
 - DMIT Hydrogeologic Work Plan for FY 2015-FY2020

DMIT Hydrogeologic Work Plan

- Develop new hydrogeologic monitoring sites
 - 5-year process spanning FY2015-FY2020
 - Annual updates with SC approval
 - Based on standard fiscal years
- Resources monitored include
 - Wetland monitoring using transects and Surficial Aquifer wells (Wetland SA)
 - Regional water level monitoring of
 - Surficial aquifer (General SA)/Intermediate aquifer (IA)
 - Upper Floridan aquifer (UFA)/Avon Park Permeable Zone (UPPZ)
 - Lower Floridan aquifer (LFA)
 - Water Quality, rainfall and other parameters

FY2015-FY2020 DMIT Well Status

FY2015-2020 Targets

254 wells planned

- 104 Wetland SA
- 79 General SA/IA
- 43 UFA/APPZ
- 28 LFA

FY2015-2020 Completed

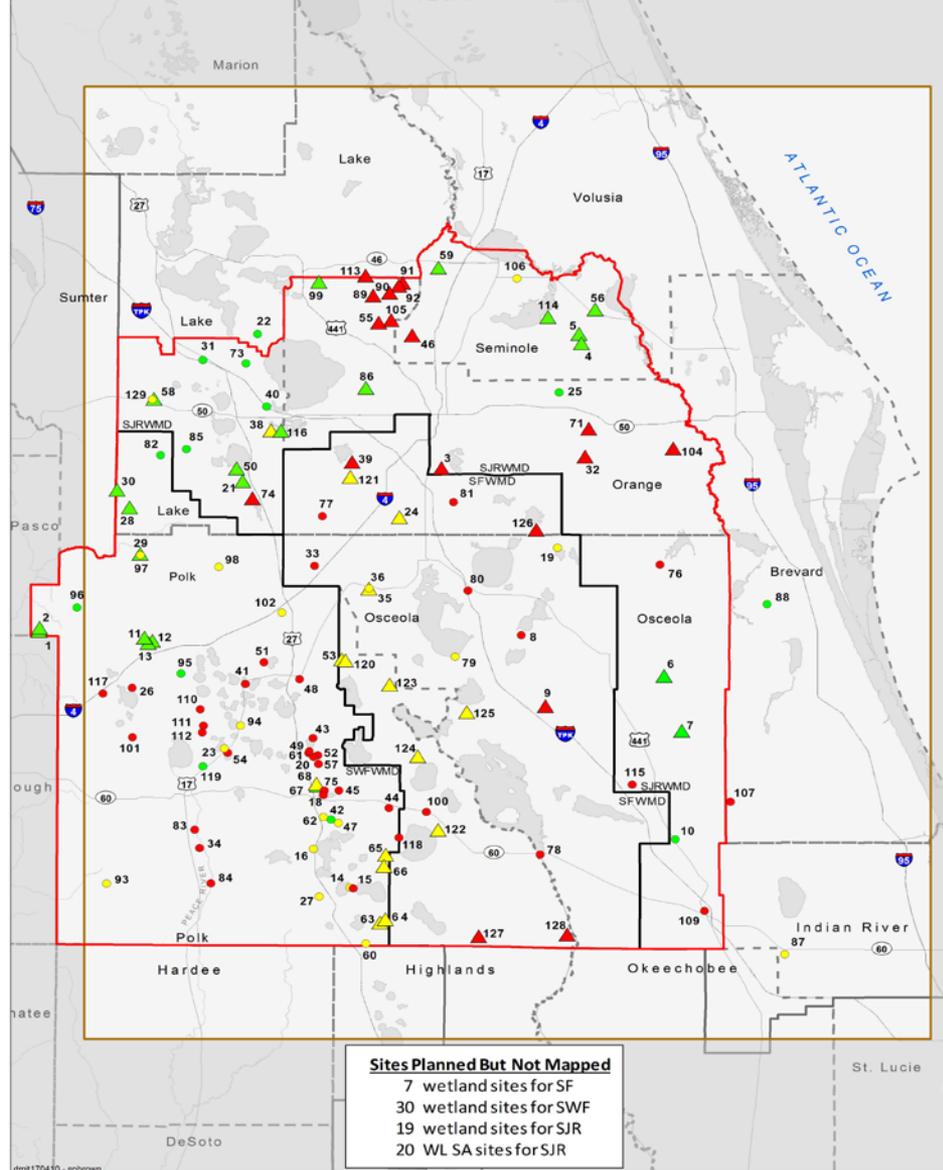
40 wells completed

- 10 Wetland SA
- 12 General SA/IA
- 13 UFA/APPZ
- 5 LFA

Sites in Progress

32 Sites are in progress





Sites Planned But Not Mapped
 7 wetland sites for SF
 30 wetland sites for SWF
 19 wetland sites for SJR
 20 WL SA sites for SJR



Figure 1: Status of DMIT Sites (November 2017)

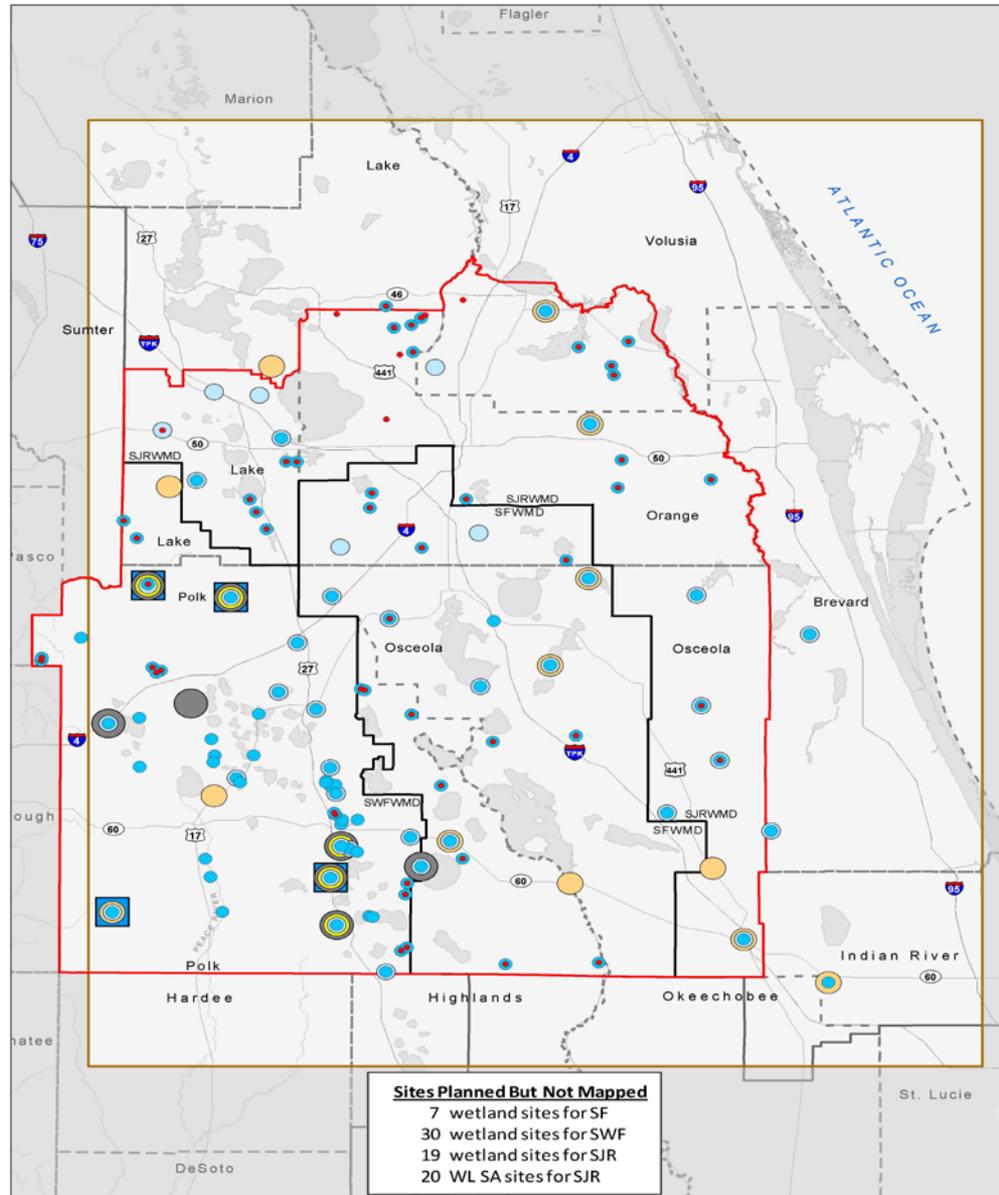
Status of DMIT Sites

△ Wetland	Green = Completed	□ CFWI Boundary
○ Well(s)	Yellow = In Progress	□ ECFT Model Domain
	Red = Proposed	--- County Boundaries
		□ Water Management District Boundaries

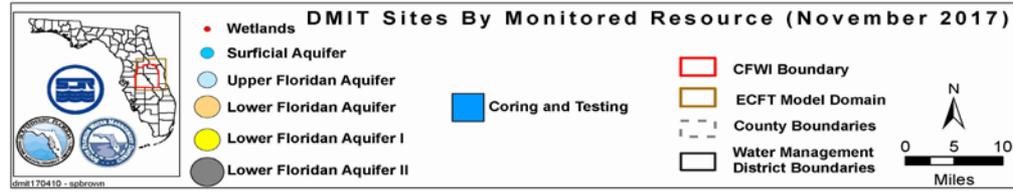
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Sites Planned But Not Mapped
 7 wetland sites for SF
 30 wetland sites for SWF
 19 wetland sites for SJR
 20 WL SA sites for SJR



FY2017 DMIT Well Status

FY2017 Targets

74 wells planned

- 26 wetland SA
- 30 general SA/IA
- 12 UFA/APPZ
- 6 LFA

FY2017 Completed

20 wells

- 7 wetland SA
- 5 general SA/IA
- 6 UFA/APPZ
- 2 LFA



Planned FY2018 and FY2019-2020 Well Construction

FY2018 Targets

66 wells planned

- 21 wetland SA
- 23 general SA/IA
- 14 UFA/APPZ
- 8 LFA

FY2019-2020 Targets

148 wells planned

- 73 wetland SA
- 44 general SA/IA
- 16 UFA/APPZ
- 15 LFA



Wetland Site Status (Transects)

FY2015-2020 Targets and Status

- 107 planned/22 completed

FY2017 Target and Status

- 26 planned/9 completed

FY2018 Target

- 24 planned

FY2019-2020 Target

- 61 planned



Reasons for Construction Delays

- Difficulties with site access authorization
- Contractor scheduling delays
- Recent delays due to above average rainfall
- Reallocation of resources due to hurricanes
- Changes in site development priorities

Additional Measures Being Implemented to Further Construction

- Improved coordination with FDEP on State Lands access requirements
- Improve business processes for site acquisition, surveying and instrumentation
- Coordinate with stakeholders to assist with site development
- Continue to identify District land opportunities



Implementation Costs

Fiscal Year	Total Implementation Costs (in millions)
2015	\$0.55
2016	\$2.04
2017	\$2.54
2018¹	\$7.78
2019-2020 ^{2,3}	\$17.99
Total:	\$30.90

¹Cost is budgeted but may be lower based on actual construction performed

²Cost is estimated for the two-year period and subject to funding

³Future costs do not consider an extension to complete DMIT construction

Extension of DMIT Work Plan Schedule

- It is unlikely that the Work Plan will be completed by the end of FY2020 (201 wells and 85 wetland sites remain to be completed)
- Staff will assess time needed to realistically complete remaining sites.
- Present recommendations to SC regarding an extension of the DMIT Work Plan schedule in April 2018.

Other DMIT Activities

Action Item	Status
Update Well Data Inventory	Complete
Complete analysis of UFA sites that need SA wells	Complete
Develop future monitoring locations	Ongoing
Create database for storing field reports and digital media associated with wetland sites	Ongoing. Field report template complete. Database scheduled for 2018 completion

Minimum Standards Document

- Revise water quality section to address concerns with the analysis of analytes where National Environmental Laboratory Accreditation Program (NELAP) sampling and analysis protocols do not exist.
- Revise Rainfall Monitoring to be consistent with regulatory requirements.
- Minor grammatical corrections.



Action Items

- DMIT requests approval of the DMIT Hydrogeologic Work Plan for FY2018-FY2020 (Annual Update)
- DMIT requests approval of the revised Minimum Standards for Water Resource Data Collection, Site Establishment and Field Data Collection Protocols Document

Questions?

<https://Cfwiwater.com/data.html>

