



City of Sanford Site 10 Monitoring Plan

Presentation to Lake Jesup- Crane Strand-Long Branch BMAP Technical Working Group

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Purpose

- ◆ Describe Original Monitoring Plan
- ◆ Agency Review Comments Received
- ◆ Site 10 Monitoring Plan Revisions
- ◆ Site 10 BMAP Activities

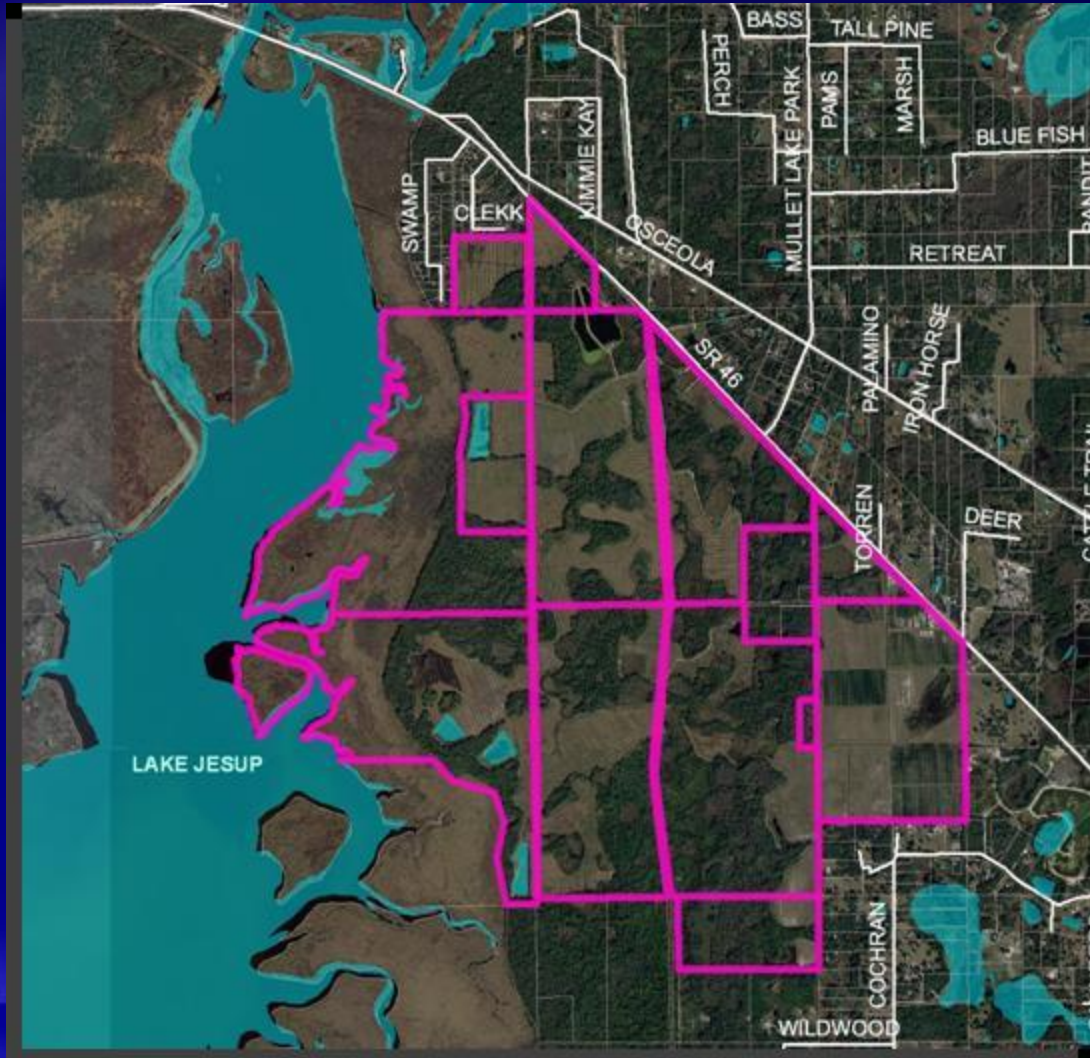
Site 10 Monitoring Plan Objectives

- ◆ Better quantify Site 10 EMC
- ◆ Monitor changes due to future implementation of nutrient on-site management
- ◆ Determination of nutrient source (i.e., surface runoff, residual loads or both)



Site 10 Monitoring Plan Discussion with Agencies and Local Governments (July 2008)

- ◆ More frequent sampling - storm event sampling
- ◆ Routine sampling in the lake near Site 10 outfall
- ◆ Addition of TP to gw monitoring parameters



Monitoring Plan Development

- ◆ Site visit to evaluate potential sampling sites
- ◆ Review of existing surface water monitoring near Site 10
 - ◆ Evaluated both STORET and Seminole County Watershed Atlas data



Draft Monitoring Plan – Storm Event Sampling



- ◆ Site visit & staff feedback
- ◆ Accessibility
- ◆ One location with continuous flow
- ◆ Conveys discharge from fields F-3, F-4, F-6 and F-8

Draft Monitoring Plan – Existing Lake Jesup Monitoring Stations



- ◆ Identified 11 sites
- ◆ Two sites are still actively monitored (OW-2 and Jesup North-Seminole)
- ◆ Proposed to rely on data from locations near site 10

Draft Monitoring Plan Comments



- ◆ FDEP, SJRWMD and Seminole County
- ◆ Increased groundwater monitoring
- ◆ More rigorous storm event sampling
- ◆ In-lake monitoring

Draft Monitoring Plan Responses

- ◆ Groundwater monitoring
 - ◆ City committed to add'l mw in sw portion of site
 - ◆ FDEP approved addition of proposed compliance wells MW-14 & MW-15
 - ◆ MW-2, -4, -8 and -9 proposed for abandonment

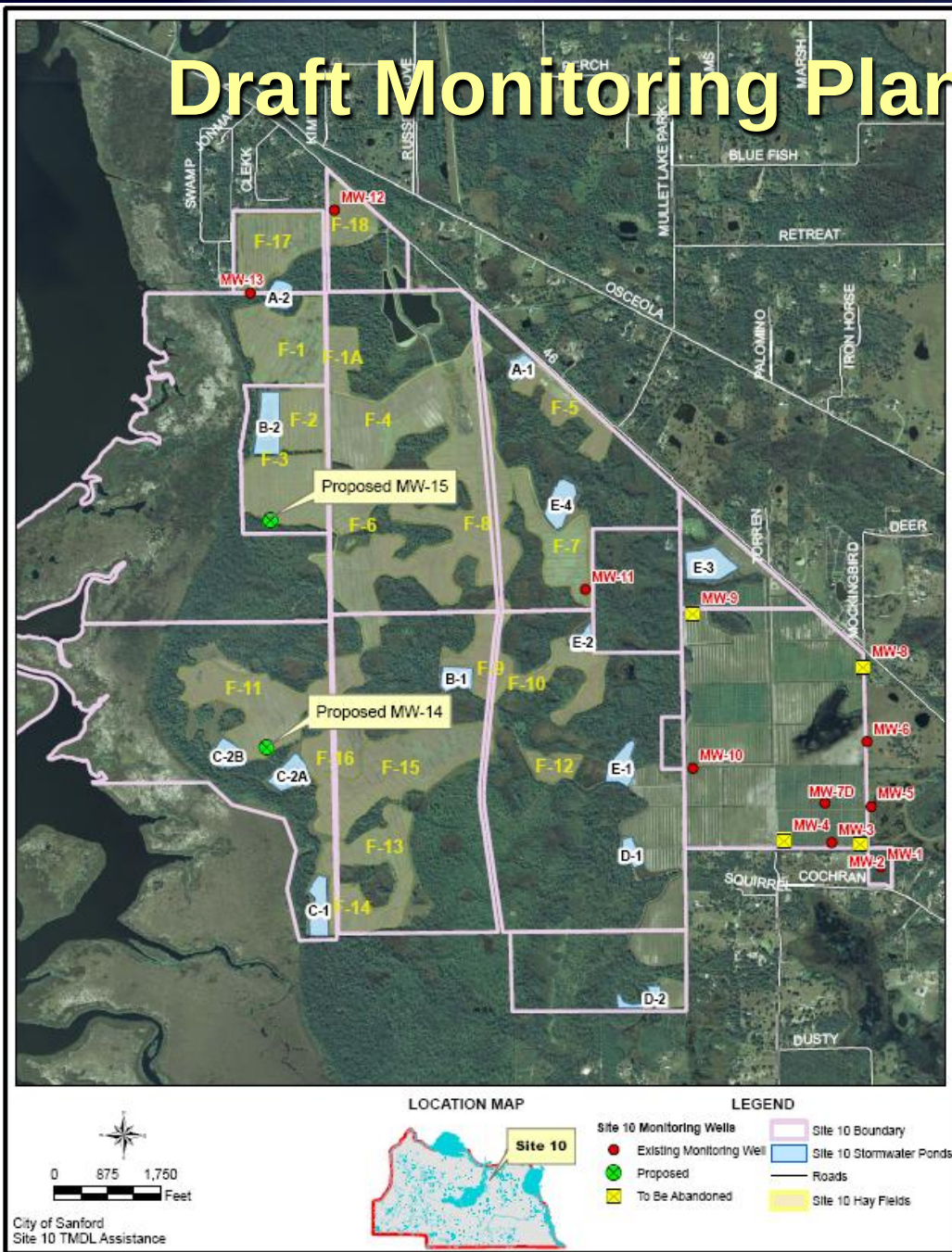
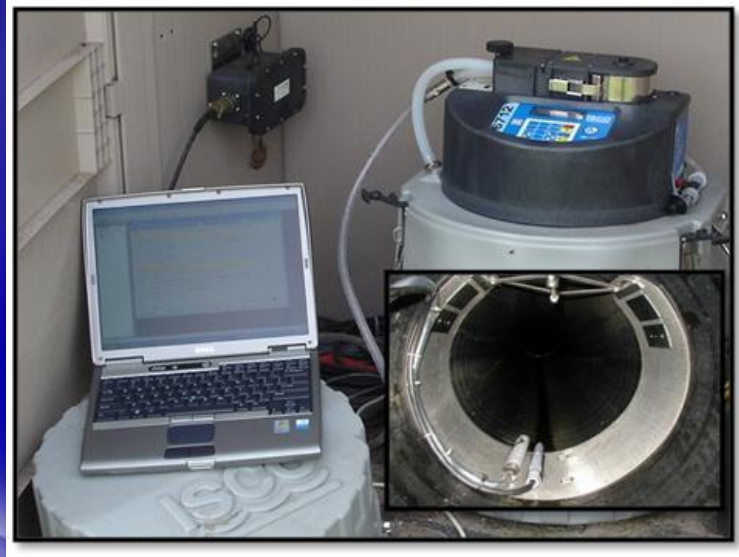


Figure 1
Proposed Monitoring Well Locations

Draft Monitoring Plan Responses *(cont.)*

- ◆ Storm Event Sampling Suggestions
 - ◆ Consideration of additional samplers throughout the site
 - ◆ Capture overflow from stormwater ponds



Draft Monitoring Plan Responses *(cont.)*

◆ City Response

- ◆ Accessibility, location and presence of flow
- ◆ Use of Site 10 possibly changing in the future → rigorous sw sampling and associated costs may not be warranted
- ◆ Consider alternating location of single sampler after 1-2 years of sampling at a location
- ◆ If changes to site are longer than anticipated then re-consider increasing storm event monitoring
- ◆ Not relying on ponds to remove TP load nor do they receive credit in TMDL
- ◆ Relying on other site management activities to remove TP load (i.e., biosolids, reclaimed water)

Draft Monitoring Plan Responses *(cont.)*

◆ In-Lake Monitoring Suggestions

- ◆ City conduct own ambient water quality samples (obtained by airboat)

◆ City Response

- ◆ Financial constraints in conducting such monitoring
- ◆ Two closest sampling stations have been routinely monitored since 1995 and 2001
- ◆ Routine coordination with agencies performing monitoring
- ◆ Can provide site access/information to other agencies interested in performing their own monitoring

Monitoring Plan Summary

- ◆ Addition of TP to groundwater monitoring parameters
- ◆ Addition of MWs 14 and 15; removal of 4 existing MWs in southeast portion of site
- ◆ Installation of auto-sampler near Pond B-2
- ◆ Alternating auto-sampler location every 1-2 years
- ◆ Continued coordination with SJRWMD and Lakewatch on status of existing surface water monitoring sites
- ◆ Routinely download current data and submit as part of reporting required by FDEP as part of their permit

Site 10 BMAP Activities

- ◆ **City has terminated biosolids application to Site 10**
 - ◆ Last application was May 2008
 - ◆ Contract with private processing facility when demand is not great enough
- ◆ **Interlocal agreements with Volusia, Seminole Counties & City of Lake Mary**
 - ◆ Pipeline design to deliver 1.5 MGD to Volusia County
- ◆ **Possible modification to long-term use of the site under the SR46 Alternative Water Supply Initiative**

Questions??

