

Environmental Measures Team

Current Work Status

*Management Oversight Committee
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Introduction and Background

- Subteam of the Water Resources Assessment Team (WRAT)
- Scientists from 3 water management districts and public supply utility representatives
- Provides expertise concerning wetlands and surface waters



Tasks 1 and 2: Wetlands Analysis

Methodology Options

COMPLETED

- Statistical analysis of Class 2 wetlands dataset indicated sample greater than original needed to provide reliable answer
- Approved methodology:
 - Visit original Class 1 wetlands
 - Add new Class 1 wetlands
 - Original methodology with expanded Class 1 wetlands dataset and updated model

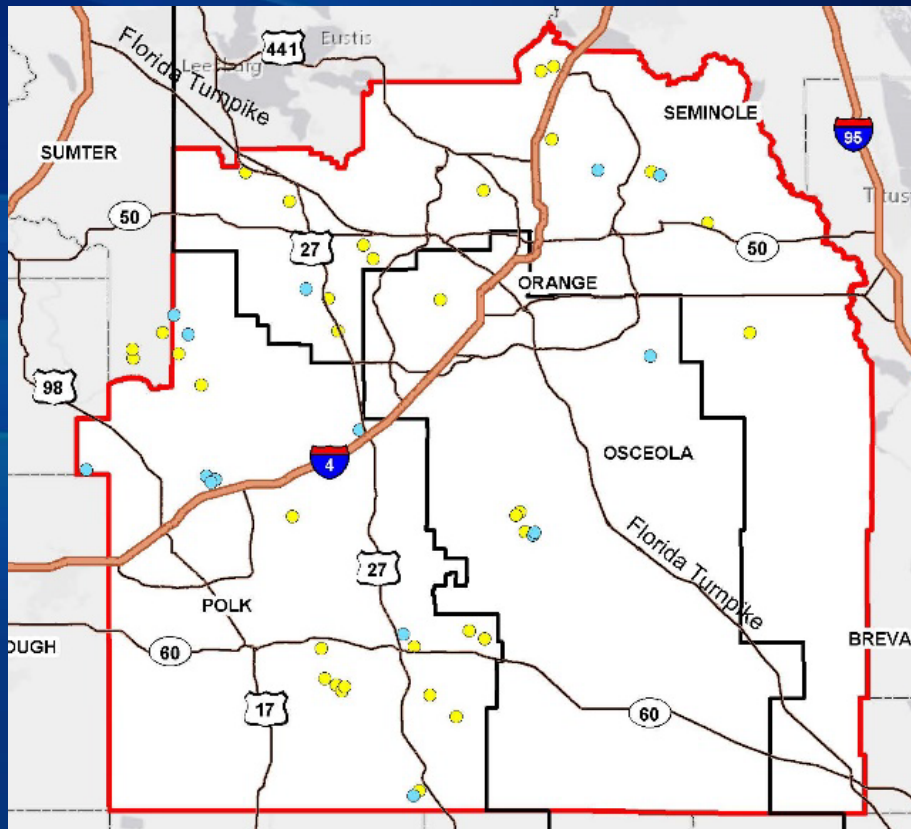


Task 3: 2018 Assessment of Class 1 Wetlands

COMPLETED

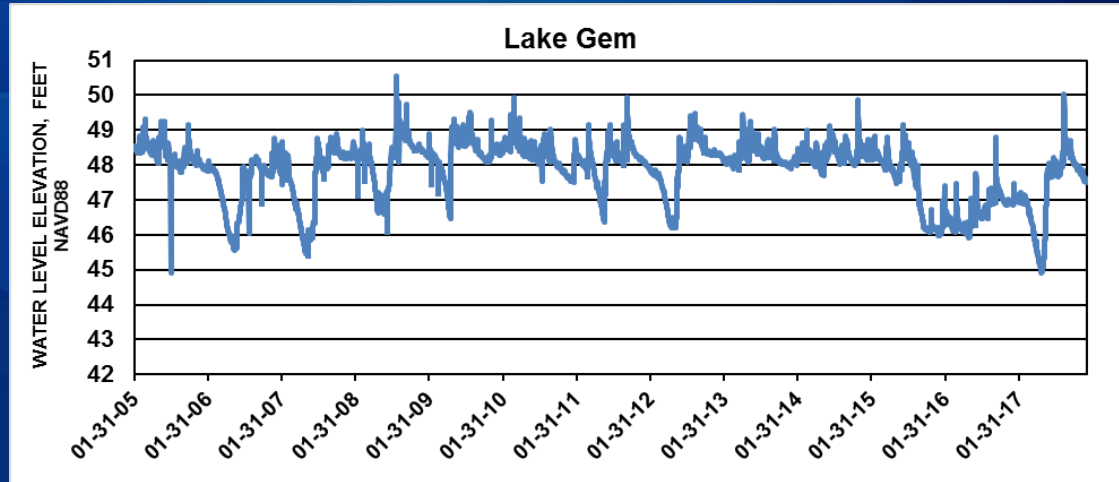


- Expanded Class 1 wetland dataset: 56 wetlands (41 original + 15 new)



Task 4: Determination of Period-of-Record of Class 1 Wetlands Water Level Data for Wetlands Analysis COMPLETED

- Selected period of record: 2009 through 2017



Task 5: GIS Tasks in Support of Wetlands

Analysis COMPLETED



- Calculate acreage of Class 1 wetlands
- No GIS work needed for Class 2 wetlands
- Calculate acreage of Class 3 wetlands for western portion included in new model
- Calculate stressed and unstressed wetland acreage in each model cell for each model scenario



Task 6: Wetlands Analysis

Task 7: Report Preparation

- Calculate statistical relationship between stress and water levels for Class 1 wetlands
- Relationship used to develop equations to estimate probability of future change in wetland stress status
- Predict probable future change in stressed and unstressed wetland acreage
- Report to support 2020 RWSP



Task 8: Develop New Methodology to Assess the Impacts of Future Groundwater Withdrawals on Wetlands in the CFWI Planning Area

- Methodology will be used for future RWSPs
- Focus will be on data from wetlands monitoring program being established by the Data, Monitoring and Investigations Team (DMIT)



Task 9: Future of the EMT

- In position to complete analyses for future five-year updates of the RWSP, future wetland and surface water assessments, and other related work assignments
- Documentation will ensure knowledge is maintained
- Composition will change over time but representation will remain similar or increase



EMT Schedule

Task	Start Date	Stop Date
1. Class 2 Wetland Power Analysis	1/1/17	5/31/17
2. Methodology Options for Wetlands and Lakes Analysis in Support of the 2020 RWSP	6/1/17	1/31/18
3. 2018 Assessment of Class 1 Wetlands	2/1/18	12/31/18
4. Determine Period-of-Record of Class 1 Wetlands Water Level Data for Wetland Analysis	2/1/18	10/1/18
5. GIS Tasks in Support of Wetlands Analysis	10/1/18	12/21/18
6. Wetlands Analysis	2/1/18	4/30/19
7. Report and Chapter Preparation	2/1/18	4/30/19
8. Develop New Methodology to Assess the Impacts of Future Groundwater Withdrawals in the CFWI Area on Wetlands and Lakes	4/30/19	12/31/20
9. Future of the EMT	4/30/19	Ongoing

