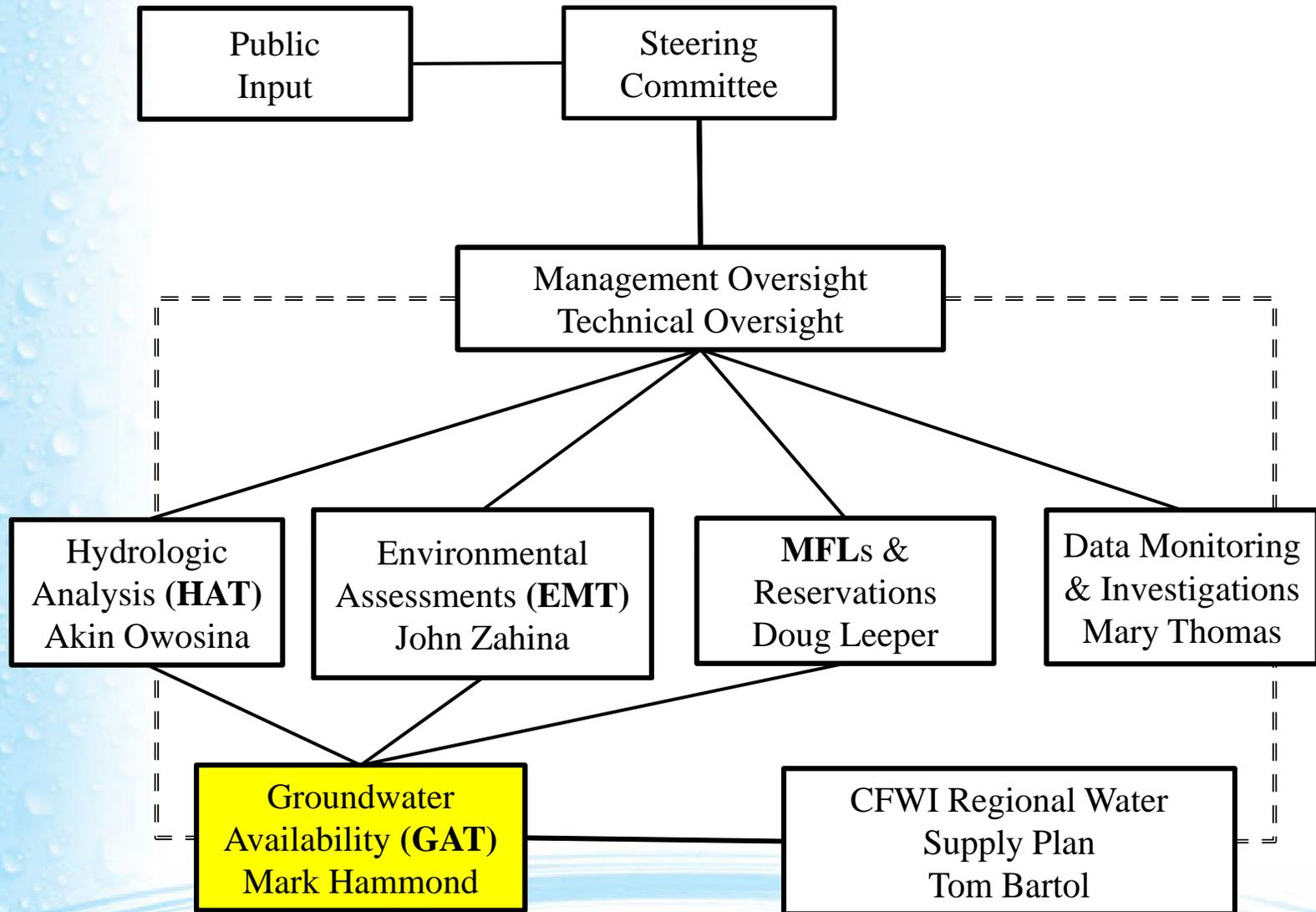


Groundwater Availability Team

*Steering Committee Meeting
March 29, 2013*

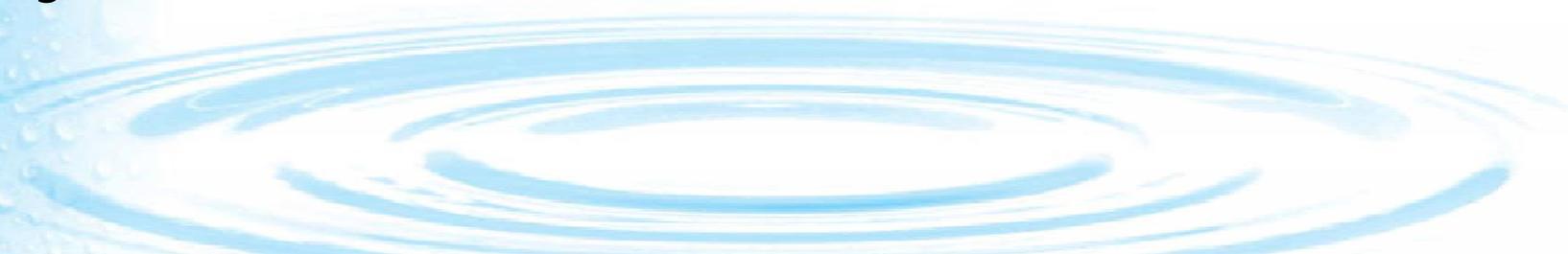
www.cfwiwater.com

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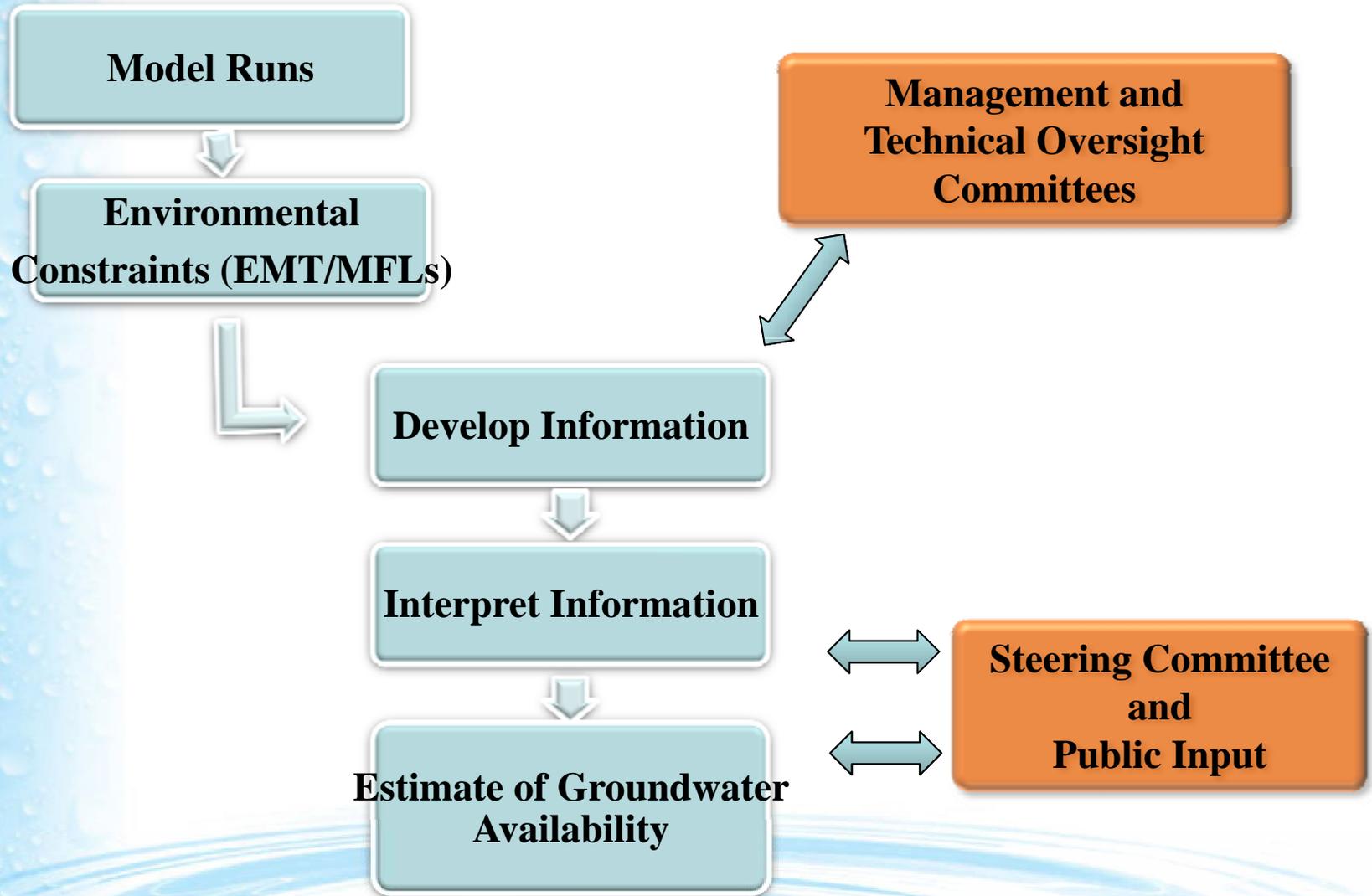


Guiding Principle #1

Identify the sustainable quantities of traditional groundwater sources available for water supply that can be used without causing unacceptable harm to the water resources and associated natural systems.



GAT Process Flow Chart



Critical Path

HAT

- Preliminary HAT model output (**January**)
 - Regional planning level detail

EMT

- Evaluation measures (**February**)

MFL&RT

- Evaluation measures (**February**)

GAT (Coordination with MOC/SC)

- Preliminary groundwater assessment (**March**)
- Groundwater availability results (**May**)

RWSP

- Final Draft RWSP (**September 2013**)

Critical Path

HAT

- Preliminary HAT model output (**January**)
- Regional planning level detail

EMT

- Evaluation measures (**April**)

MFL&RT

- Evaluation measures (**April**)

GAT (Coordination with MOC/SC)

- Preliminary groundwater assessment (**March**)
- Groundwater availability results (**June**)

RWSP

- Final Draft RWSP (**October 2013**)

CFWI Schedule March

| | | GAT Meetings | MOC Meetings | Steering Committee Meetings |
|--|--|--------------------|--------------|-----------------------------|
| Management Oversight Committee | | | March 4 | |
| GAT Activities | | March 11, 14, & 15 | | |
| Management Oversight Committee | | | March 18 | |
| GAT Activities | | March 27 & 28 | | |
| Steering Committee Meeting | | | | March 29 |
| GAT Preliminary Groundwater Availability Assessment March 31 | | | | |

CFWI Schedule April

| | | GAT Meetings | MOC Meetings | Steering Committee Meetings |
|--|--|--------------------|--------------|-----------------------------|
| Management Oversight Committee | | | April 1 | |
| GAT Activities | | April 10, 11, & 12 | | |
| Management Oversight Committee Joint meeting with GAT – report preliminary findings | | | April 15 | |
| GAT Activities | | April 24 & 25 | | |
| Steering Committee Meeting | | | | April 26 |
| GAT Report Preliminary Findings of Groundwater Availability April 26 | | | | |

CFWI Schedule April

| | | GAT Meetings | MOC Meetings | Steering Committee Meetings |
|--|--|--------------------|--------------|-----------------------------|
| Management Oversight Committee | | | April 1 | |
| GAT Activities | | April 10, 11, & 12 | | |
| Management Oversight Committee Joint meeting with GAT – report preliminary findings | | | April 15 | |
| GAT Activities | | April 24 & 25 | | |
| Steering Committee Meeting | | | | April 26 |
| GAT Report Preliminary Findings of Groundwater Availability May 31 | | | | |

Steering Committee

April 26

- Objectives
 - Preliminary Findings
 - Recent Conditions
 - Future Conditions
 - Policy-level Discussions
 - Public Input

Steering Committee

April 26

- Objectives
 - Preliminary Findings
 - Recent Conditions
 - ~~• Future Conditions~~
 - Policy-level Discussions
 - Public Input

CFWI Schedule May

| | | GAT Meetings | MOC Meetings | Steering Committee Meetings |
|---|--|----------------|--------------|-----------------------------|
| Management Oversight Committee | | | April 29 | |
| GAT Activities | | May 6, 9, & 10 | | |
| Management Oversight Committee | | | May 13 | |
| GAT Activities | | May 23 & 24 | | |
| Steering Committee Meeting | | | | May 31 |
| GAT Groundwater Availability Results May 31 | | | | |

CFWI Schedule May

| | | GAT Meetings | MOC Meetings | Steering Committee Meetings |
|---|--|----------------|--------------|-----------------------------|
| Management Oversight Committee | | | April 29 | |
| GAT Activities | | May 6, 9, & 10 | | |
| Management Oversight Committee | | | May 13 | |
| GAT Activities | | May 23 & 24 | | |
| Steering Committee Meeting | | | | May 31 |
| GAT Groundwater Availability Results June 28 | | | | |

Steering Committee May 31

- Objectives
 - Groundwater Availability Results
 - Policy-level Discussions
 - Public Input

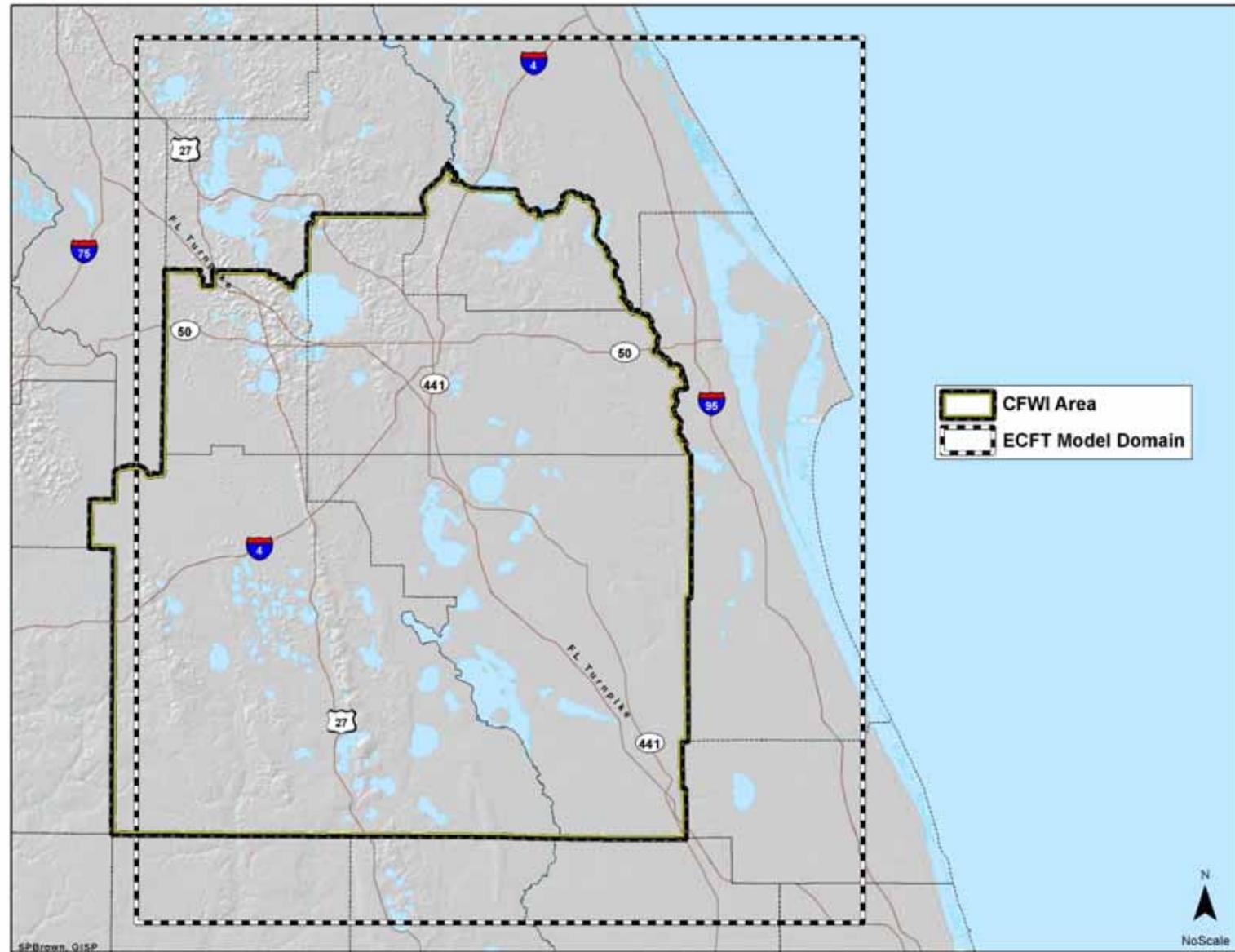
Steering Committee

May 31

- Objectives
 - Preliminary Findings
 - Recent Conditions
 - Future Conditions
 - Policy-level Discussions
 - Public Input

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CFWI Area and ECFT Model Domain



Assessing Groundwater Availability

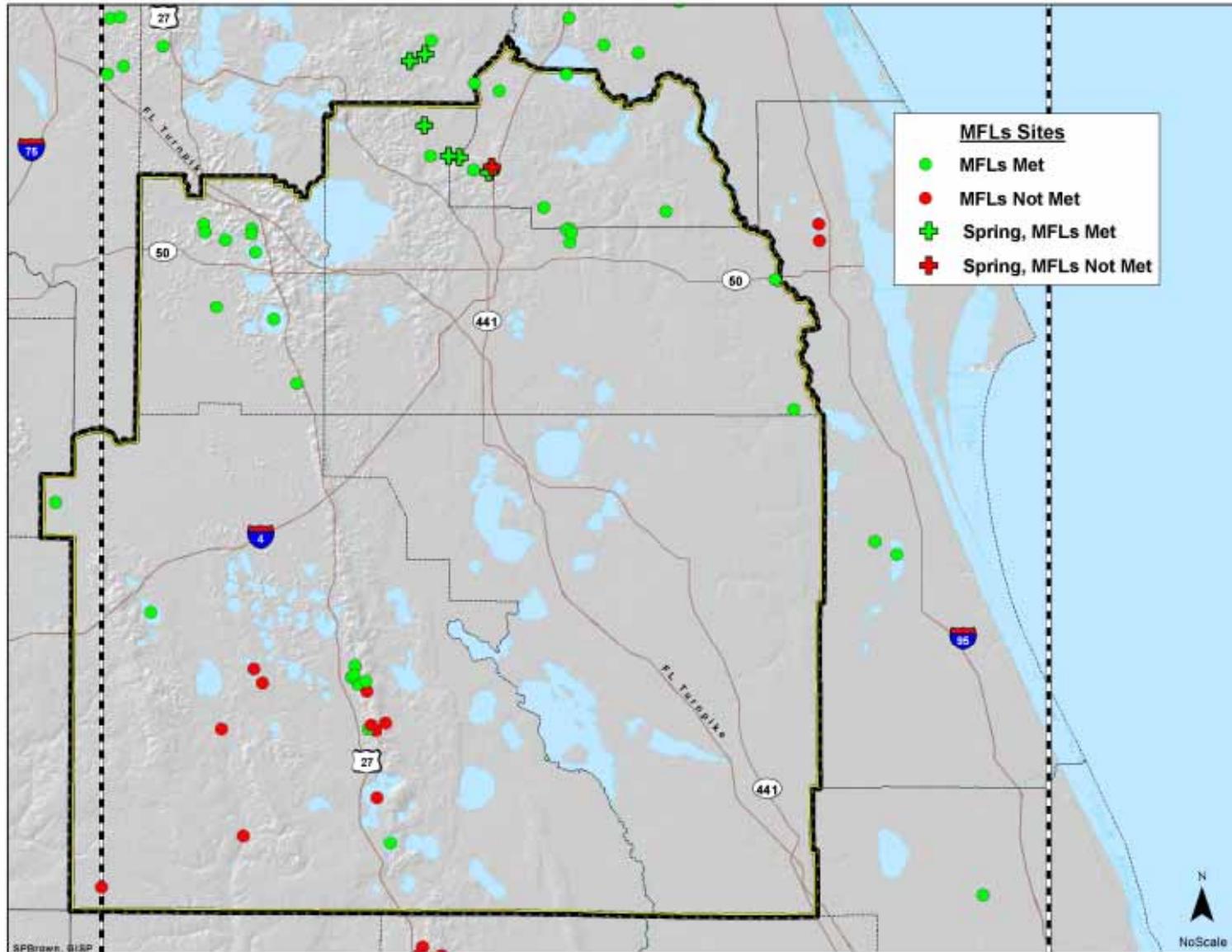
- Multiple factors influence changes in surface water conditions
 - Hydrogeologic setting and rainfall
 - Drainage changes
 - Surrounding land use changes
 - Basin configuration changes
 - Withdrawals
- Our focus is on groundwater withdrawal based changes

Environmental and MFL Sites

1. Recent Status of 88 MFL Sites near CFWI
2. EMT Sites Expand Insight
 - 400 (+/-) sites visited
 - 330 (+/-) sites assessed by EMT
 - 146 (+/-) sites used in recent conditions assessment
 - 46 sites with both ecologic and hydrologic data

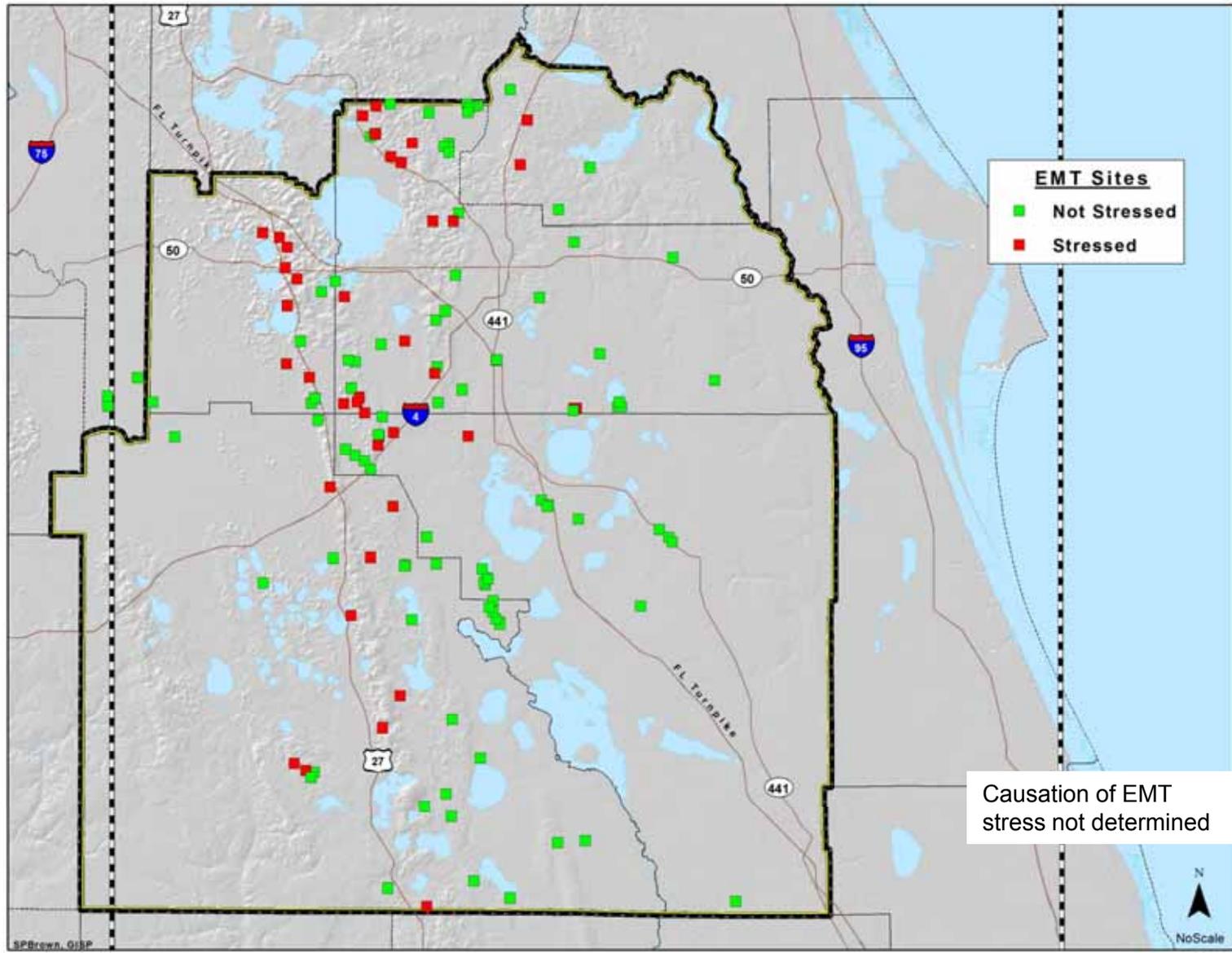
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Recent Status of MFLs



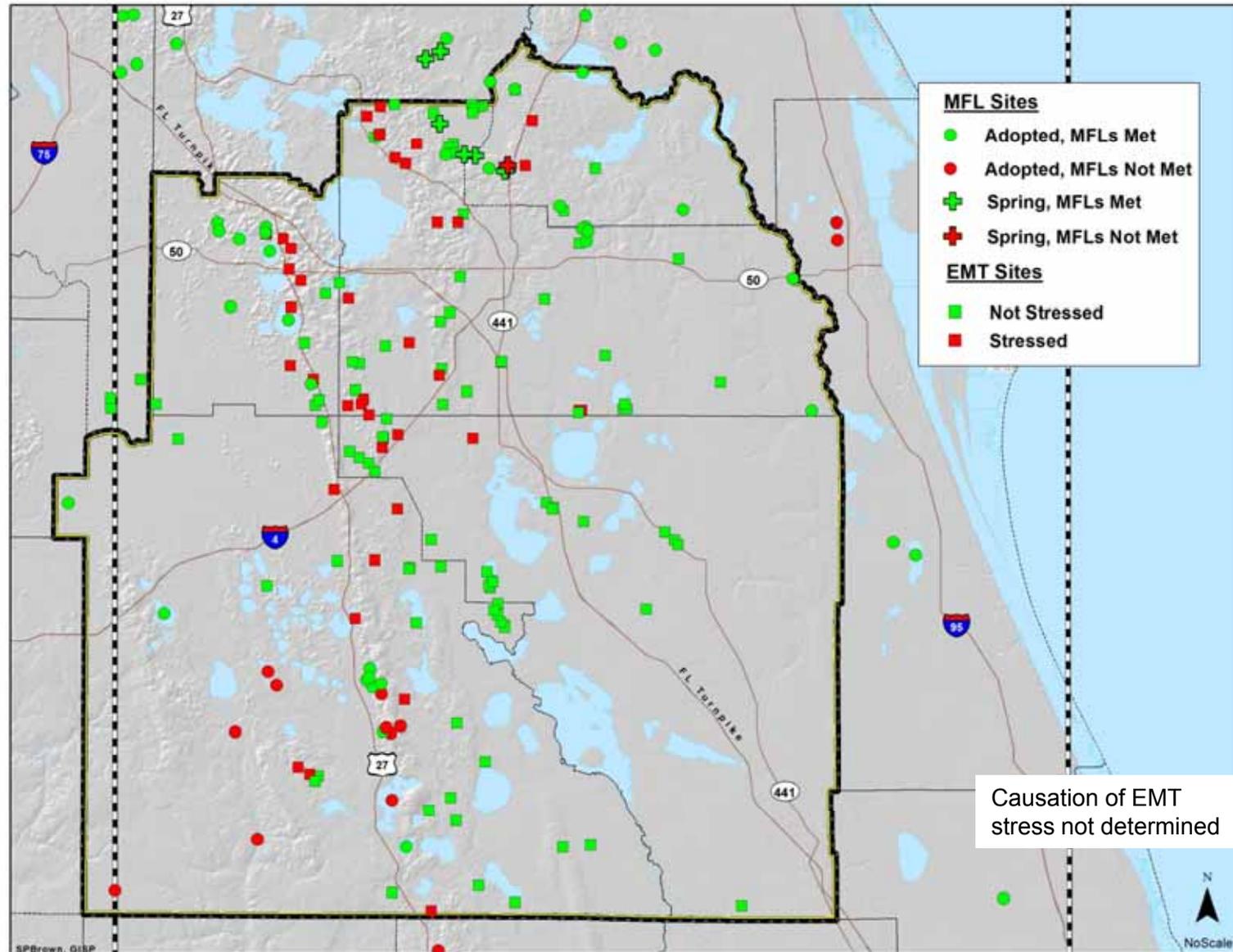
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Recent Status of EMT Sites



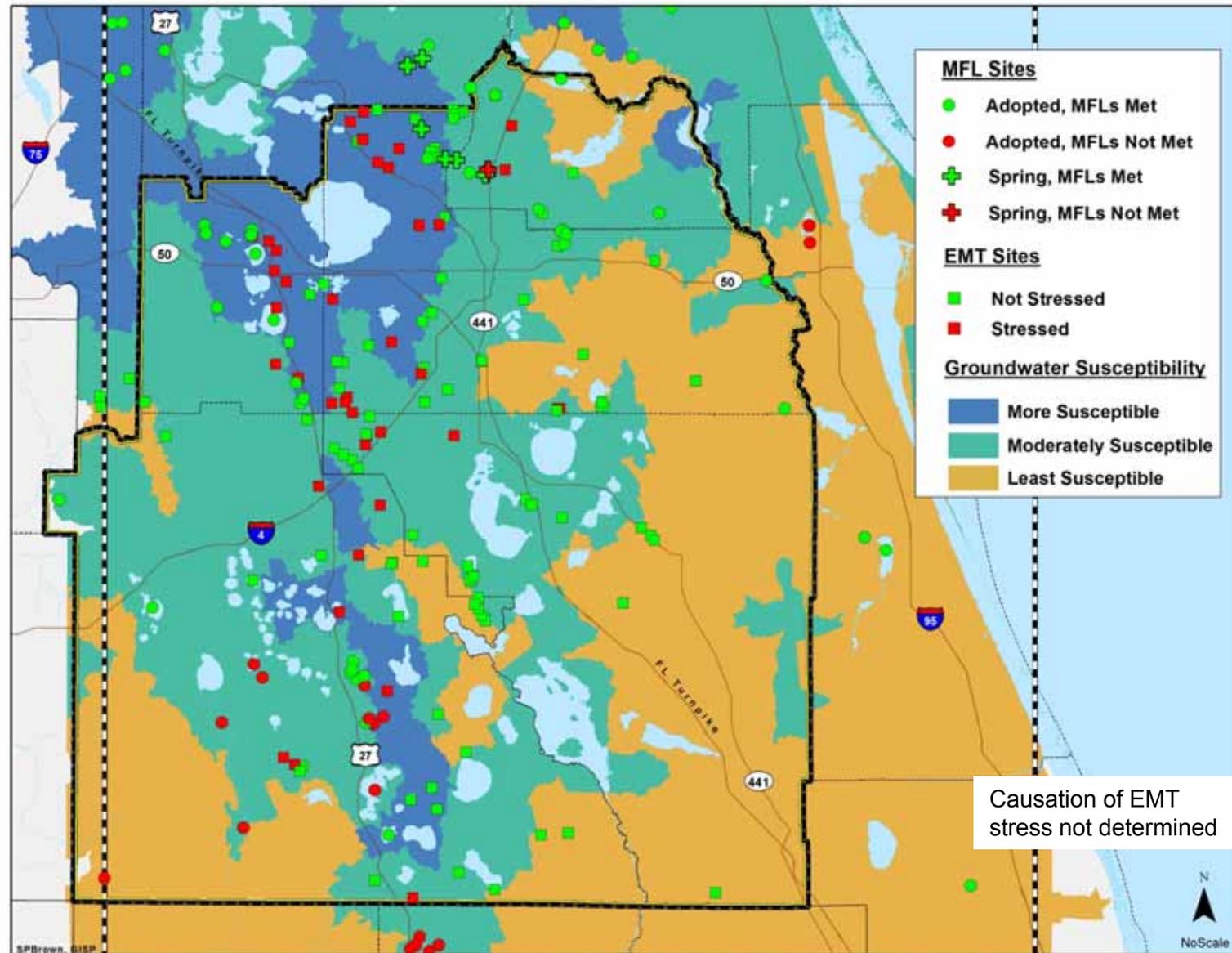
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Recent Status of MFLs and EMT Sites



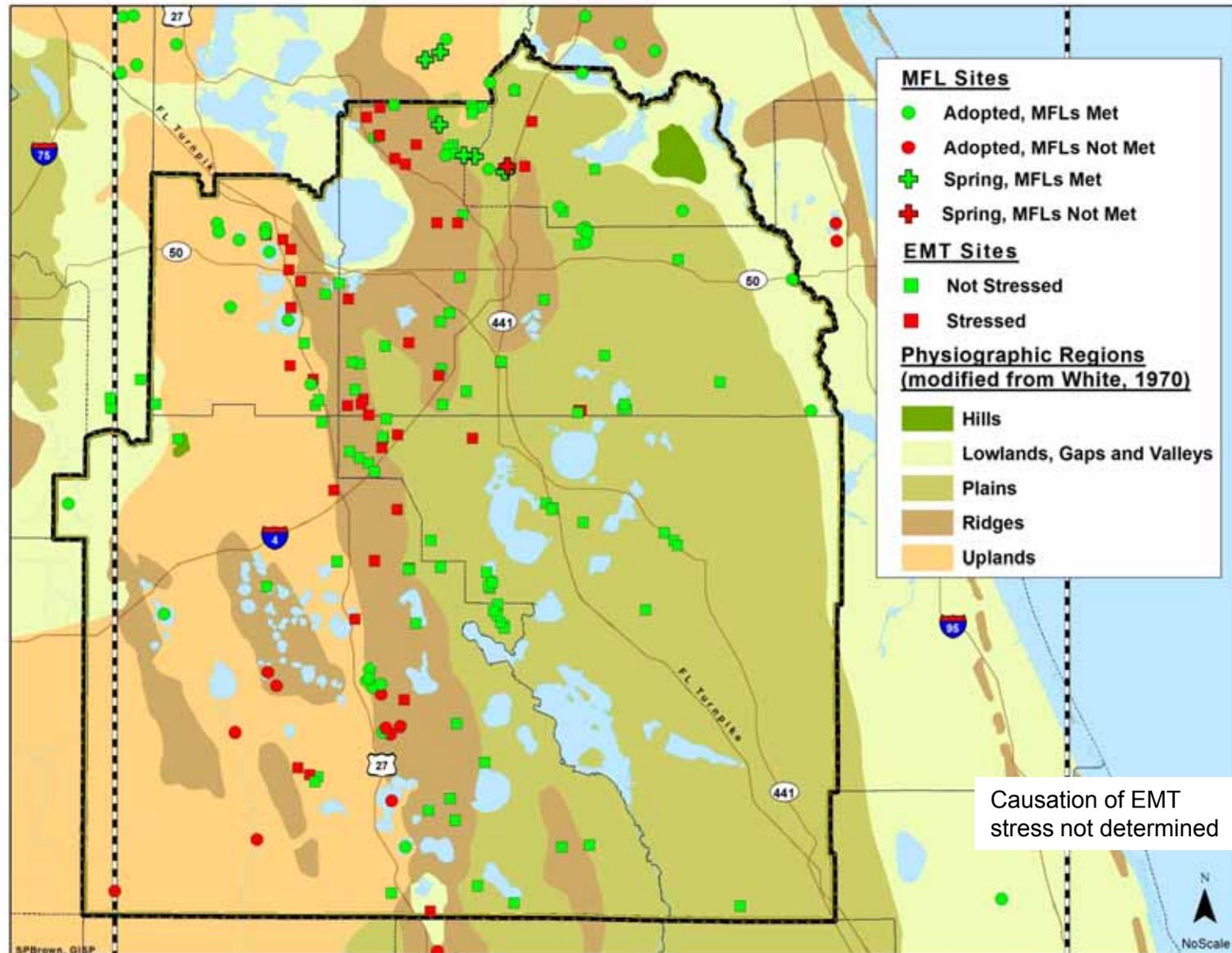
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Recent Status of MFLs and EMT Sites with Groundwater Susceptibility



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Recent Status of MFLs and EMT Sites with Physiography



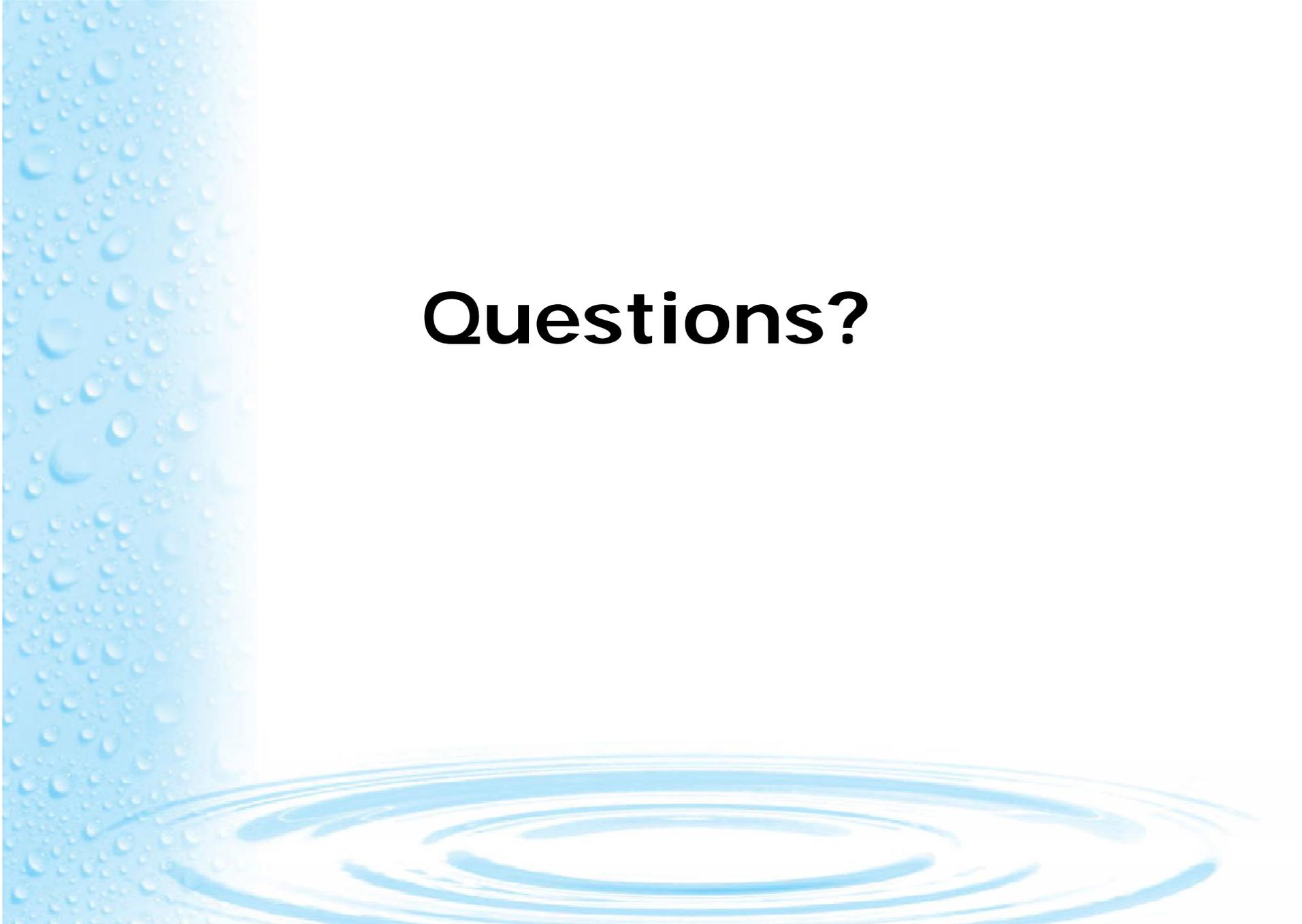
Summary

- Most MFLs are currently being met but several are not
- EMT sites are more likely to be stressed along ridge areas and less likely in non-ridge areas
- Ridge areas are more susceptible to groundwater withdrawals than non-ridge areas due to less confinement

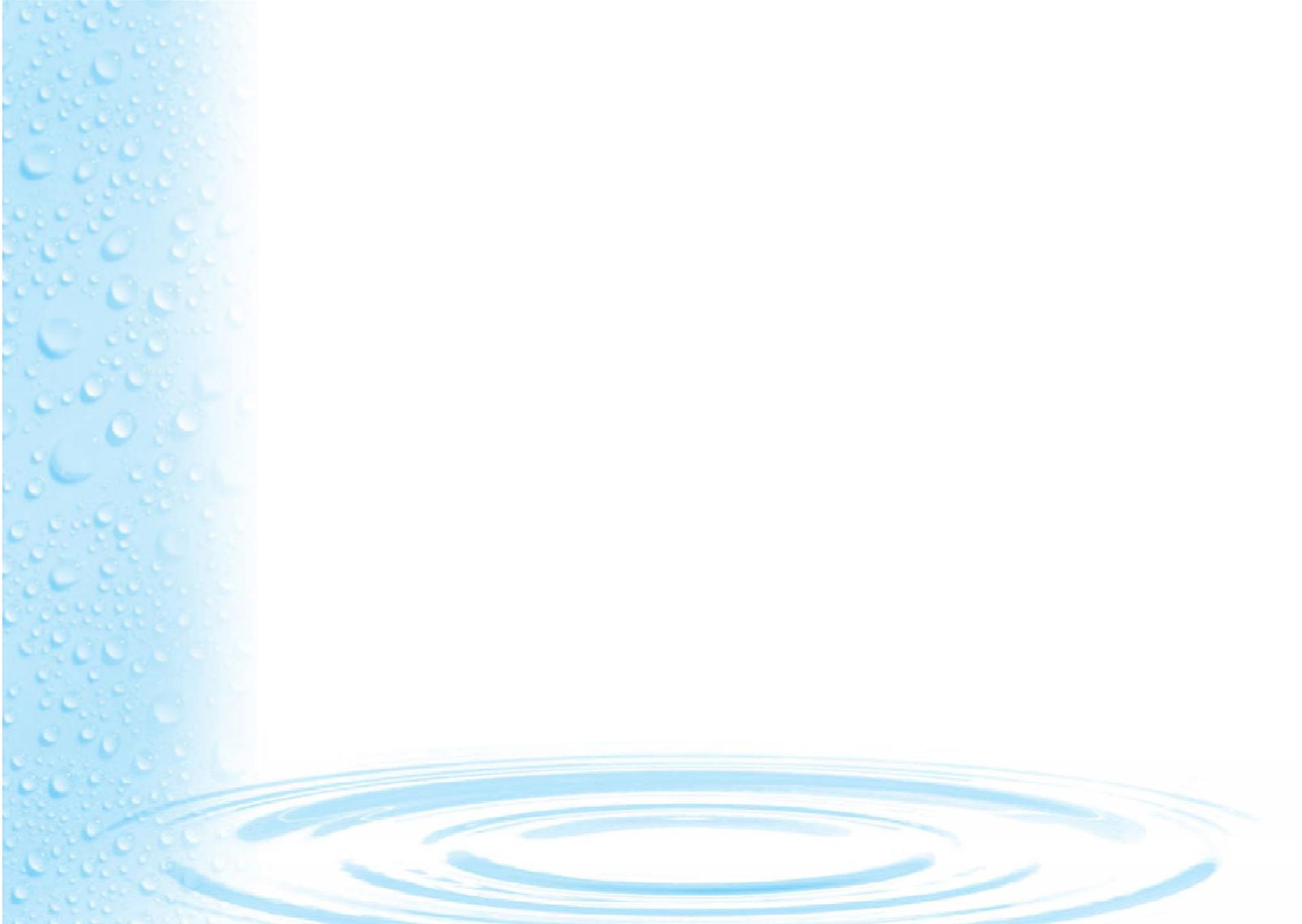
Next Steps

- Complete status review of recent conditions
- Assess future groundwater availability
 - EOP scenario
 - 2035 scenario
- Alternate scenarios

Questions?

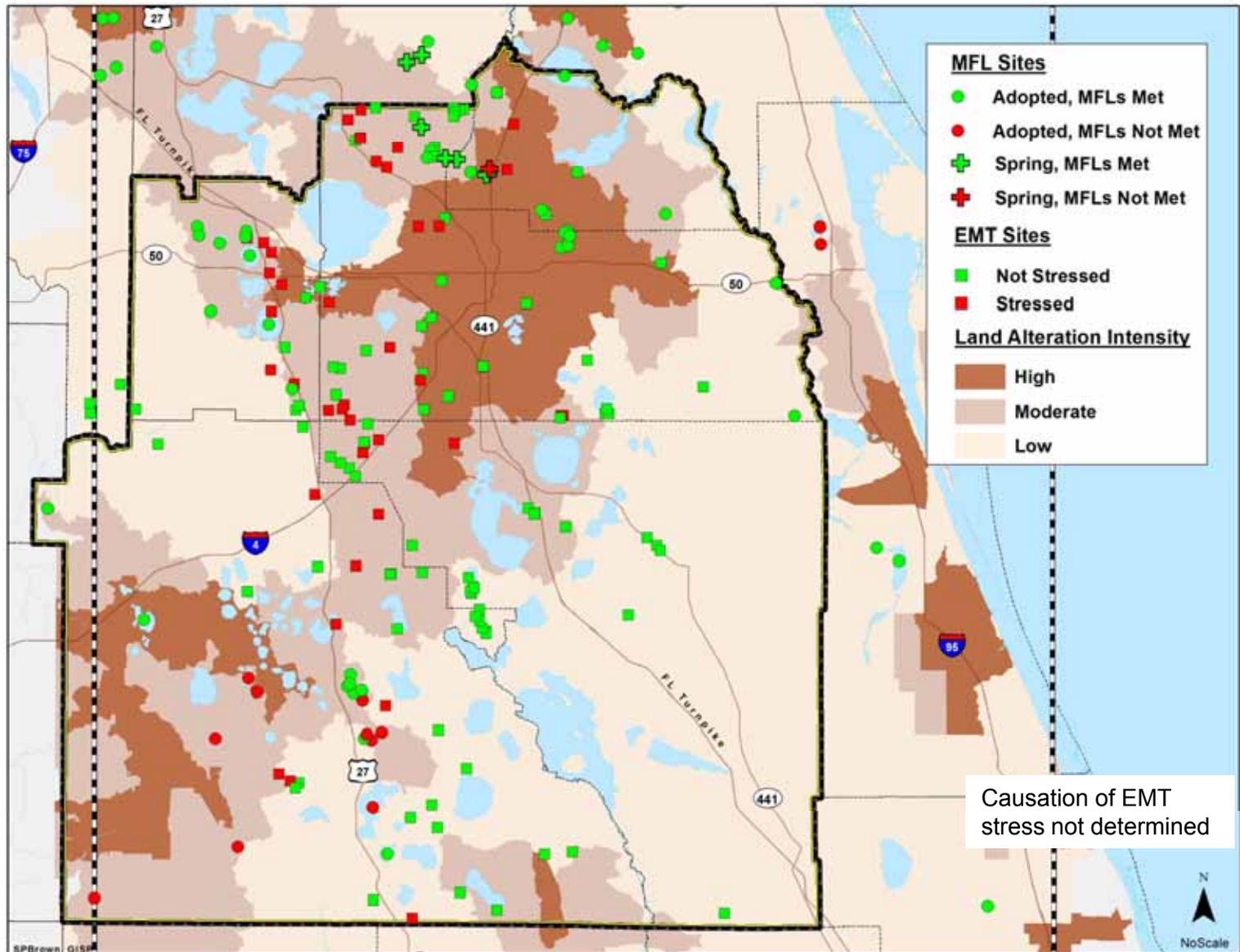


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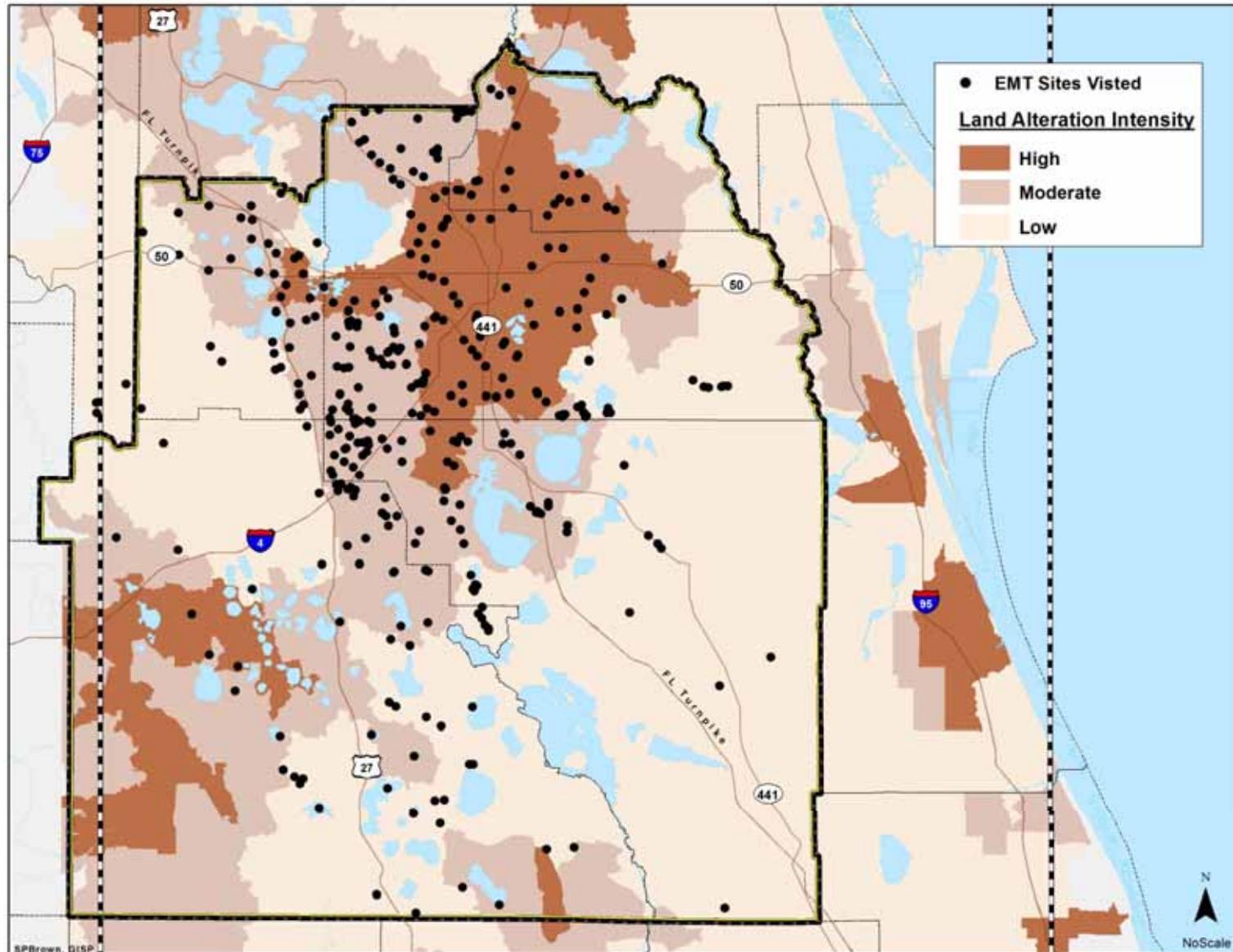
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Recent Status of MFLs and EMT Sites with Land Alteration Intensity



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Recent Status of MFLs and EMT Sites with Land Alteration Intensity



Steering Committee

March 29

- Objectives
 - Confirm Groundwater Assessment
 - Preliminary Assessment of Recent Conditions
 - Policy-level Discussions
 - Public Input