

Florida Department of Environmental Protection



Water Quality Restoration Program

BMAP Status and Next Steps

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Status

- Since our last meeting in August:
 - Release of funding for local projects. [Press Release SPRINGS PROJECTS.docx](#)
 - DEP is completing work on nitrogen source inventory (to present in October).
 - Looking for more information about historical farming practices and nutrient loads from stormwater.
 - Project collection has proven to be more challenging than anticipated.
 - To date talked with: FDOT, Ocala, Belleview, Marion County, Lake County, The Villages.
 - [**DEP still needs project information**](#)



Projects

- Urban structural BMPs – stormwater ponds, swales.
- Street sweeping.
- Public education and outreach.
- Ordinances – such as fertilizer ordinance.
- Spring protection zone.
- Maintenance and operation of BMPs.
- Land purchases that are part of conservation and preservation strategies.
- Florida Friendly Landscaping.
- Agriculture BMPs –acreage covered under a notice of intent.



Time Period

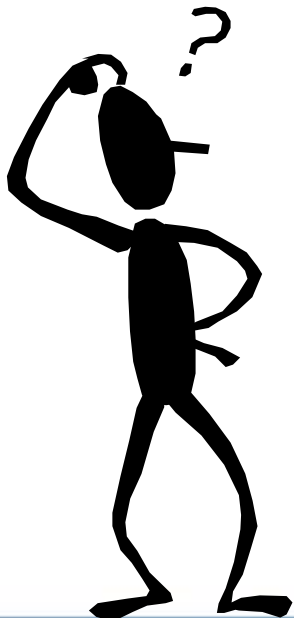
What is starting date for collection of data?

- TMDL evaluated data up to 2011.
- Starting date of 2009 for projects?
 - Full effect of BMP may not have been observed in TMDL data.
 - Or should we start earlier?
 - Alternate proposal: Consider a historic period and a current period.
 - Historic period is 2000-2008. The reasoning is that activities have been continual without rigorous start dates.



Project Data Collection

- Are there other people or organizations that I should talk with?
 - Plans to talk with Hawthorne and McIntosh.







Ground Water Quality Data

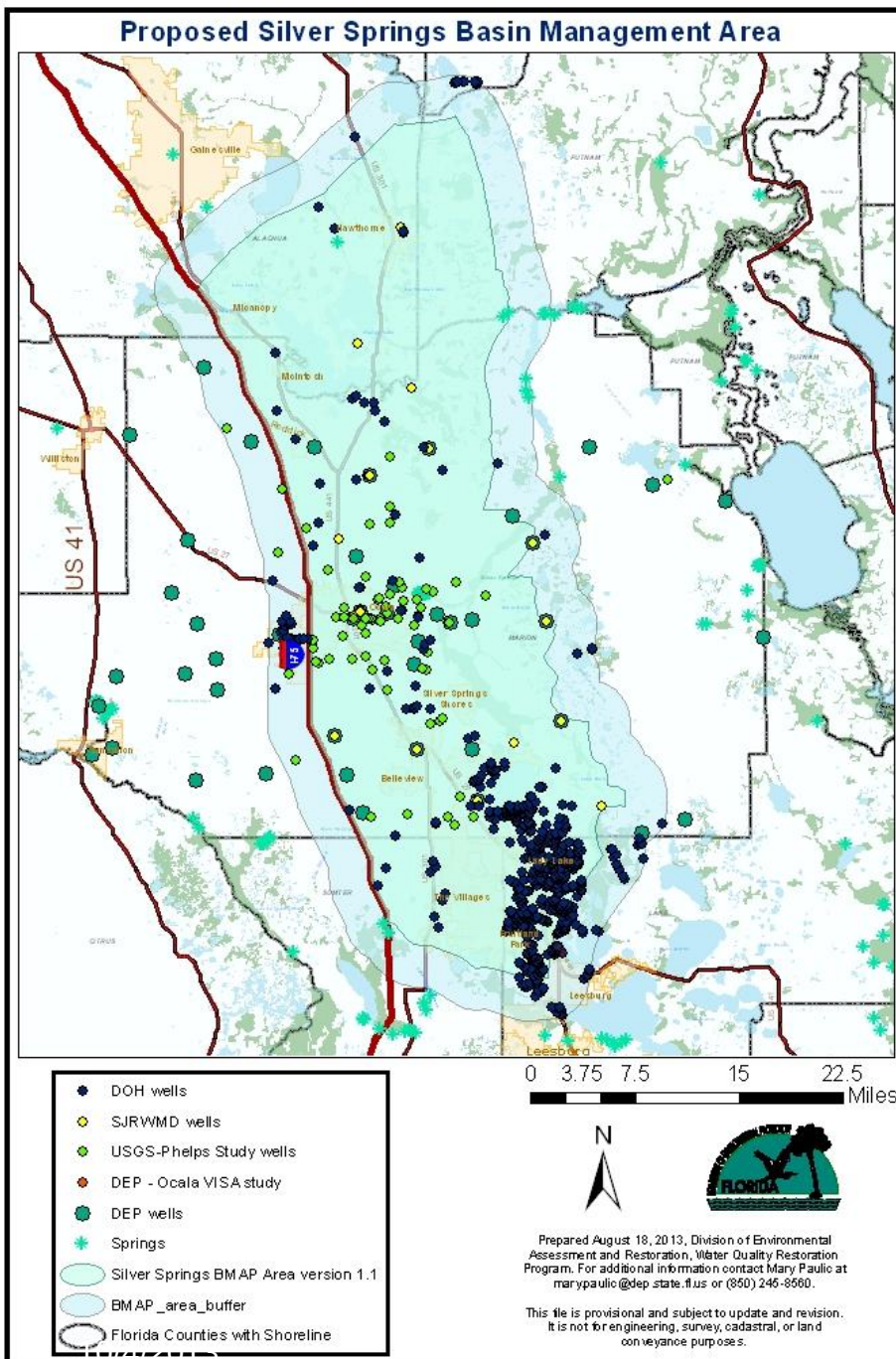
Important Note: This project is in its infancy.

Useability of data is a consideration.

- Goal: Map and evaluate concentration of nitrate in ground water.(if possible both spatial and temporal elements
 - Serves as a check on the nitrogen source inventory and loading study.
 - May help identify locations with high levels of nitrate in aquifer and associated N sources.
- SJRWMD is identifying a network of wells to be used for current and future monitoring. That network will be presented in October.

Wells

- Several different ground-water quality studies have been conducted within the BMAP management area at different points in time.



Potential ground water quality data sources

- Wastewater facility monitoring wells
- Public water supply facilities **These may be only finished water samples– that is they have been disinfected and aerated.
- Private well sampling FDOH monitoring wells (SJRWMD, DEP, USGS)
- Solid waste disposal monitoring wells.







Focus Areas

- Purpose of focus areas is to concentrate remediation efforts where they will do the most good.
 - Concerns have been expressed that effort will be diluted if too spread out.
 - Best use of available dollars.
 - How to do this?



Goal

Establish Focus Areas

- Identify sources with highest loading especially in high-rate recharge areas.
- What other management strategies are needed? Where is additional effort needed?
- Cost has to be considered.
- Practical application.



Next Step

Sufficiency of Effort

- Set 5 year target of achievable restoration goals.
- Consider identification of additional projects or management strategies needed for restoration of Silver Springs.
- Locating focus areas will help direct where new projects are located.
- Summary of current projects will identify gaps in management strategies.



Future Meetings

- Schedule meetings for the rest of the year.
 - October Meeting Schedule:
 - 16th proposed as meeting date
 - Tentative Farm tour date needed
 - Other Topics
 - Present the results of the nitrogen source inventory and loading to ground water
 - Ground water monitoring proposal
 - Ground water evaluation
 - November and December Meeting Dates and Topics



Topics

- Agriculture BMP compliance targets
- Delineate focus areas
- Wastewater facilities
- Septic systems



Public Meetings

- Plan is to hold public outreach meetings as we progress toward development of the BMAP.
 - Several brief presentations have been given as part of other events;
 - Next step is to schedule a Silver Springs BMAP public meeting.
 - Potential dates for meeting:
 - BMAP meetings in December or January?
 - Are there other opportunities for DEP to participate in a local event?

Questions?





Website and FTP Addresses

- http://www.dep.state.fl.us/water/water_sheds/bmap.htm - website for meeting announcements.
- http://www.dep.state.fl.us/water/tmdl/final_tmdl.htm - website for TMDL documents, under Ocklawaha Basin.
- http://publicfiles.dep.state.fl.us/DEAR/BMAP/Silver_springs/ - FTP site for meeting notes and presentations.