



Photo credit: Amy K. Munizzi

Septic Tank Remediation Plan to Help Protect Our Springs

Public Input Open House | February 24, 2020

JonesEdmunds 

Florida Springs and Aquifer Protection Act

July 2016 - Governor Signed into Law

Protects 30 Florida Springs Threatened by Excess Nitrogen Pollution

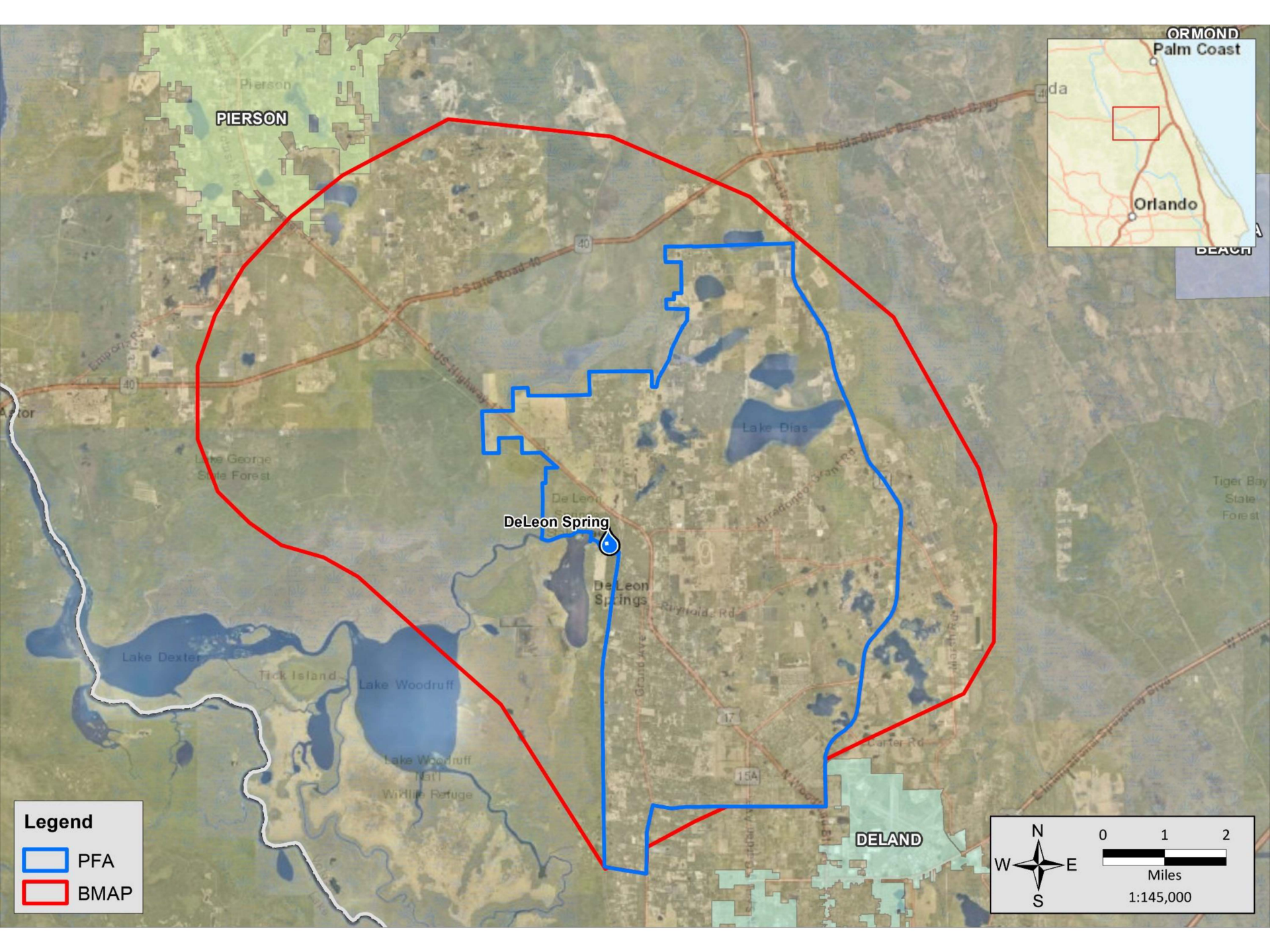


Florida Springs and Aquifer Protection Act

Actions Mandated by Senate Bill 552

- ❑ Must establish Priority Focus Areas for all first-magnitude springs





Legend

PFA

BMAP

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Florida Springs and Aquifer Protection Act

Actions Mandated by Senate Bill 552

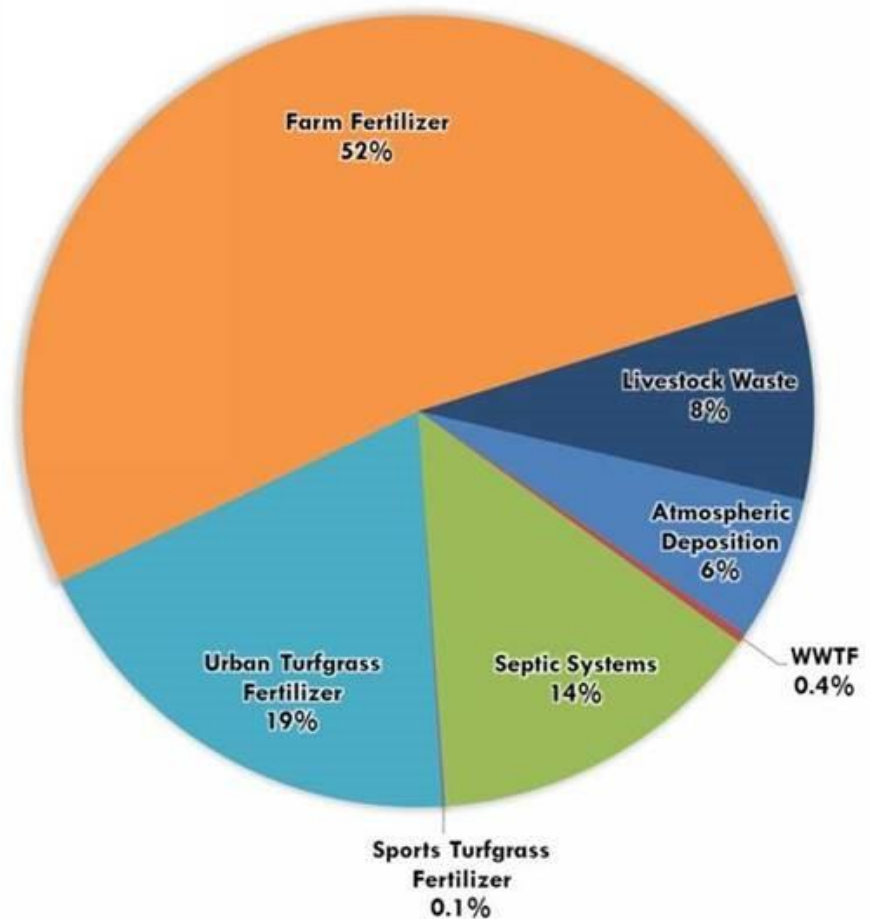
- ❑ Septic System Remediation Plans required for areas with more than 20% septic system nitrogen contribution or as deemed appropriate by FDEP

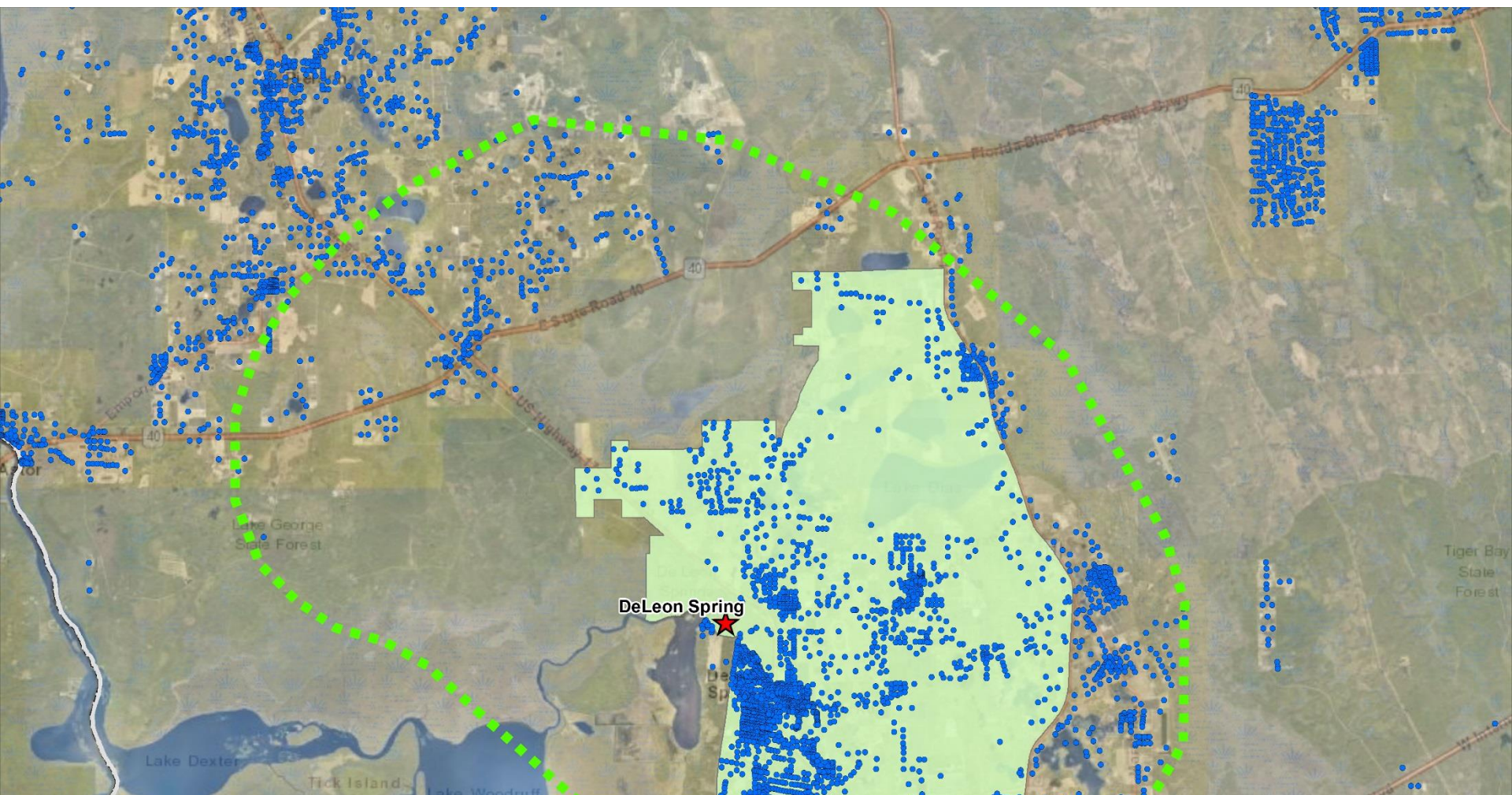


DeLeon Spring

Major Nitrogen Contributors

- ❑ Farm Fertilizer (52%)
- ❑ Urban Turfgrass Fertilizer (19%)
- ❑ Septic Systems (14%)

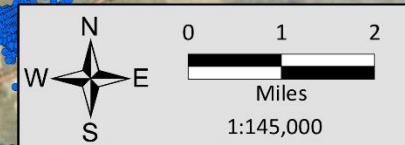


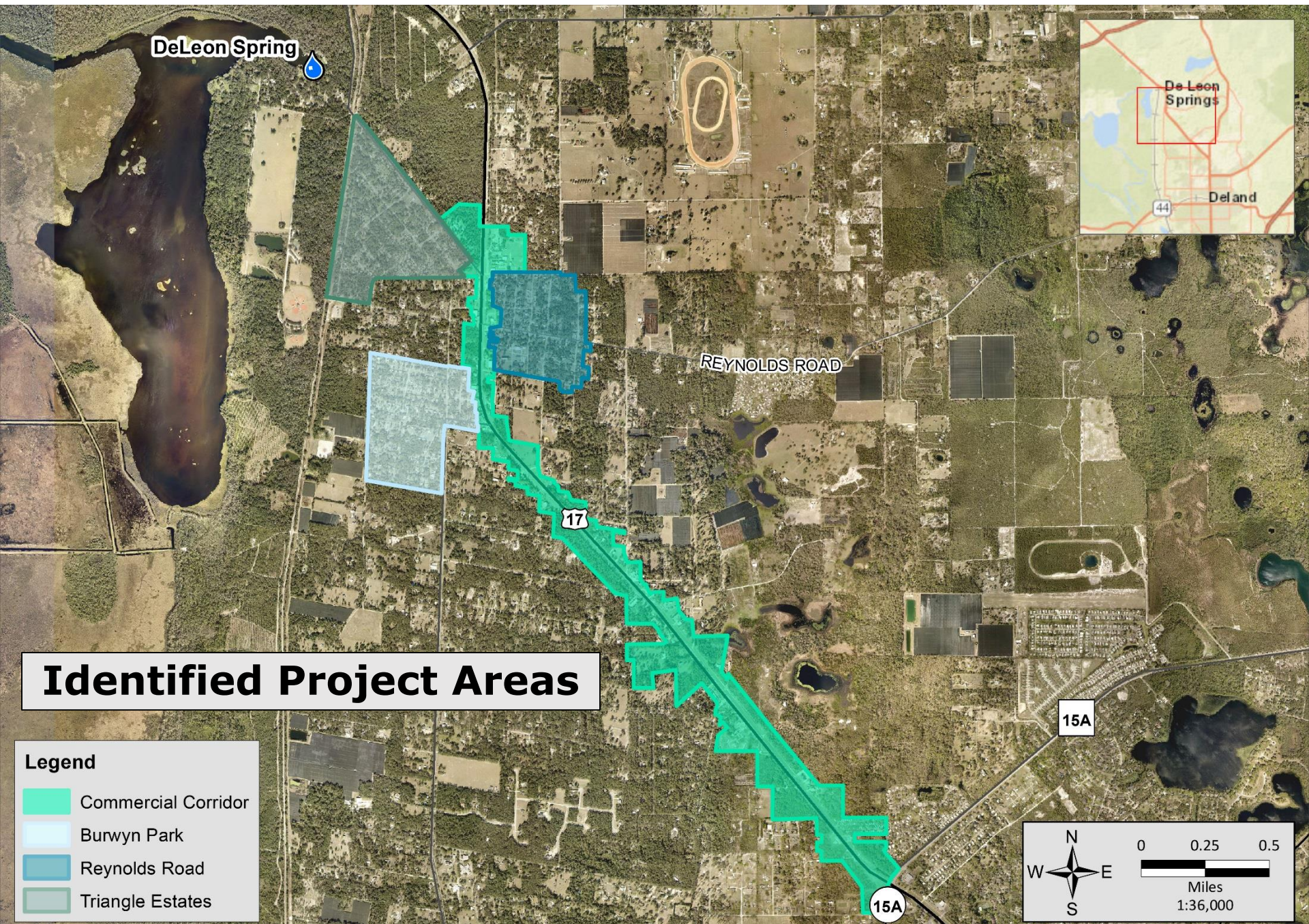


3,938 Septic Systems in the Priority Focus Area

Legend

- Volusia Septic Tank
- PFA
- BMAP





DeLeon Spring

De Leon Springs

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44

REYNOLDS ROAD

17

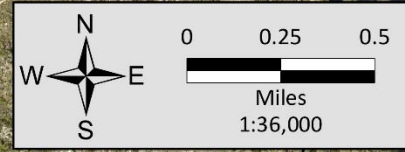
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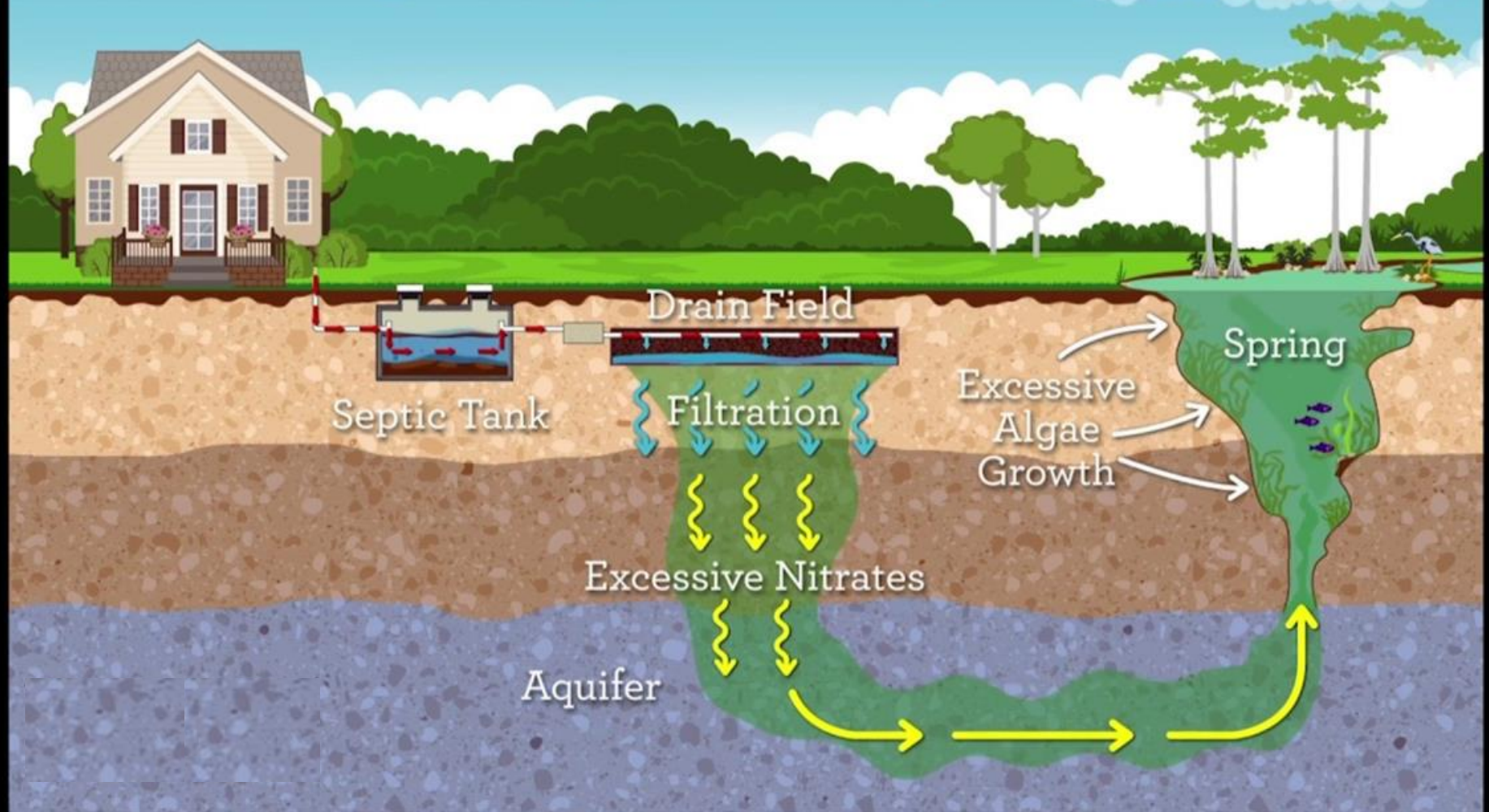
Identified Project Areas

Legend

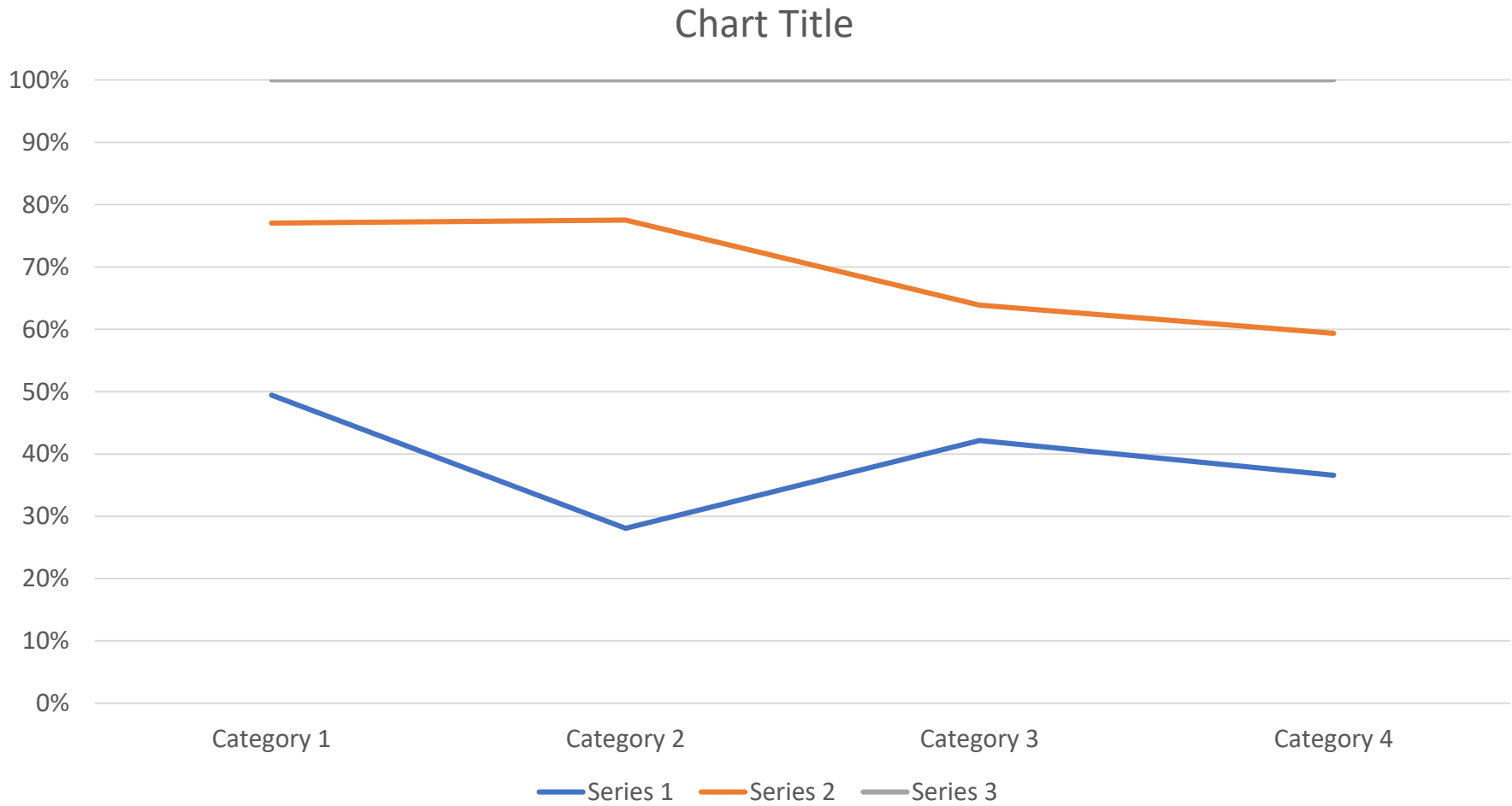
- Commercial Corridor
- Burwyn Park
- Reynolds Road
- Triangle Estates



How Septic Systems Impact Springs



Nitrogen Increases Over Time



Nitrogen Must Be Reduced to Protect Spring Water Quality



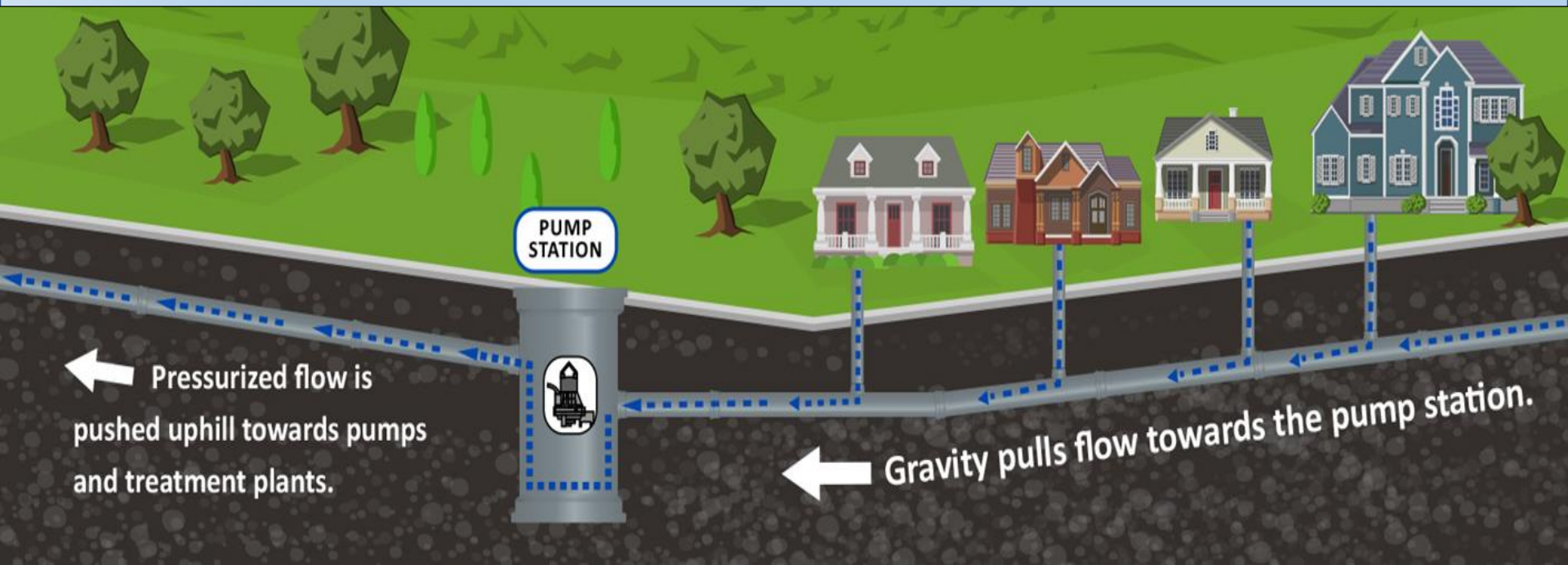
State-Mandated Septic System Remediation Plan ELEMENTS

- ☐ Scientific information on the effect of nutrients on the spring
- ☐ Options for nutrient reducing septic system alternatives
- ☐ Public education plan
- ☐ Cost-effective and financially feasible projects
- ☐ A priority ranking for each project for funding



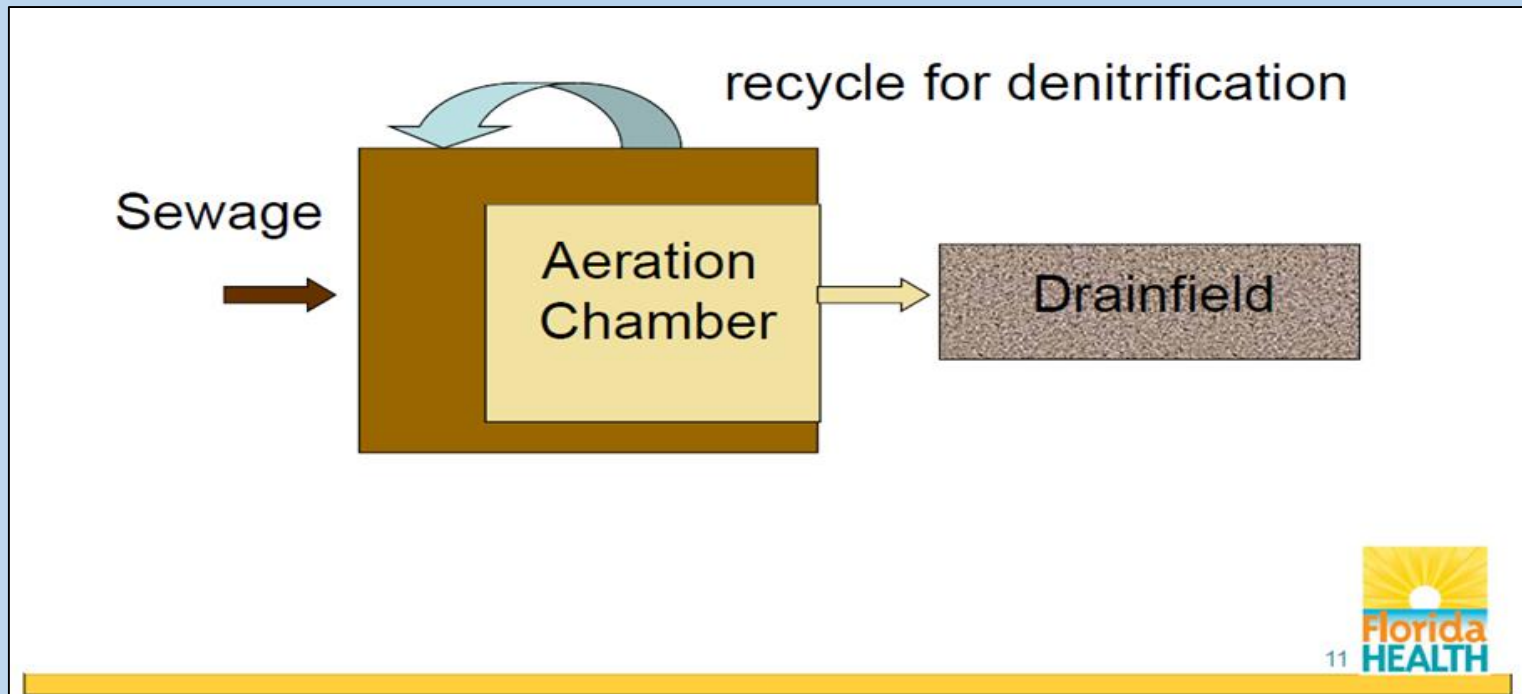
State-Mandated Septic System Remediation Plan OPTION

- ❑ Connect to central sewer system
 - Initial cost to connect, monthly sewer bills



State-Mandated Septic System Remediation Plan OPTION

- ❑ Install a Nitrogen-Reducing Aerobic Treatment Unit
 - Systems require maintenance entities, service contract agreements and operating permits



State-Mandated Septic System Remediation Plan OPTION

- ❑ Install Distributed Sewer Network
 - Centrally managed performance-based treatment units at each home
 - Systems require wireless connection and supervision by a professional wastewater operator
 - Initial installation cost, monthly sewer bills



**Distributed
Wastewater
Treatment Unit
(DWTU)**

Drainfield

Stakeholders in the Process

- ☐ Regulatory Agencies
 - FDEP
 - SJRWMD
 - FDOH
- ☐ Local Government
- ☐ Business and Industry
- ☐ Agriculture
- ☐ Utilities
- ☐ Residents



We Need Your Input / Comments!

- ❑ Current Opportunity-Funding Availability
 - Springs
 - SJRWMD Cost Share
 - FDEP SRF
 - Property Owner
- ❑ Concerns with the Current Plan
- ❑ Public Engagement throughout the process



We Need Your Support!

- ❑ Join the County in its efforts to improve our water quality
- ❑ Help spread the word about State requirements associated with the Florida Springs and Aquifer Protection Act
- ❑ Let us know how we can improve our communication process



Questions?

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