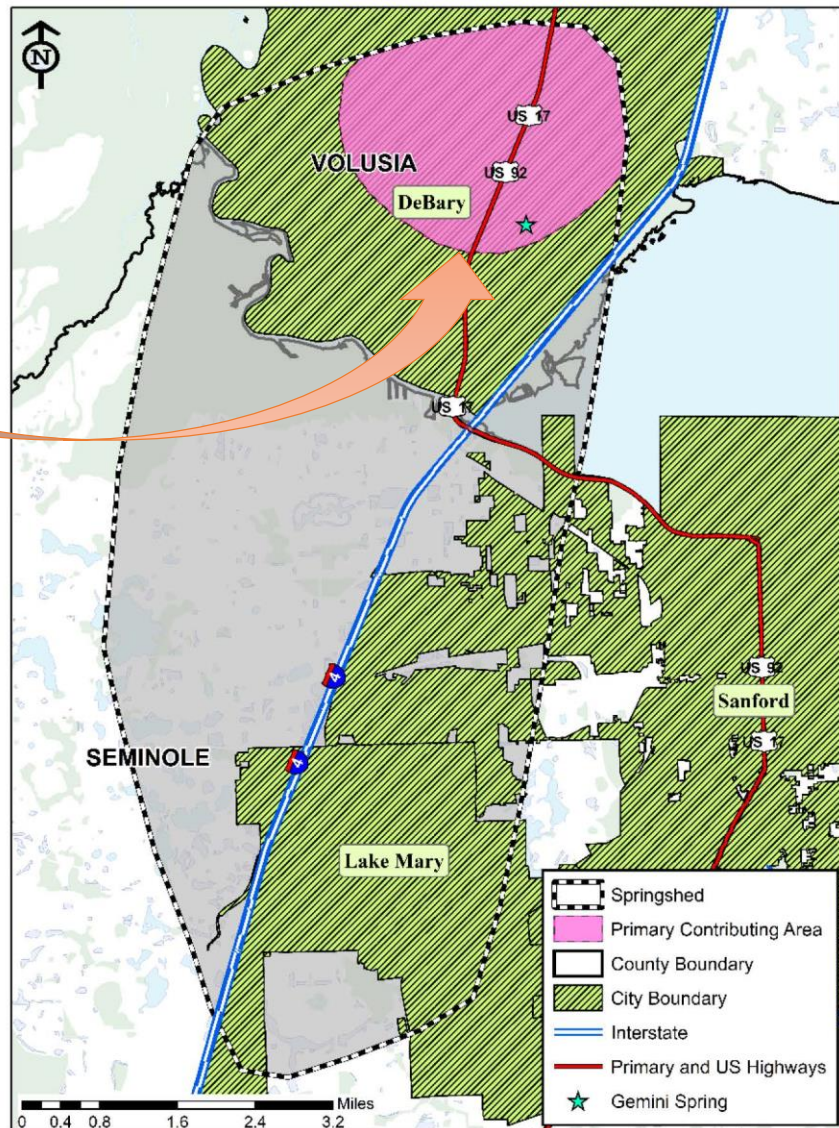




# Gemini Springs Septic Tank Abatement Program

Gemini Springshed  
Primary Contributing  
Area

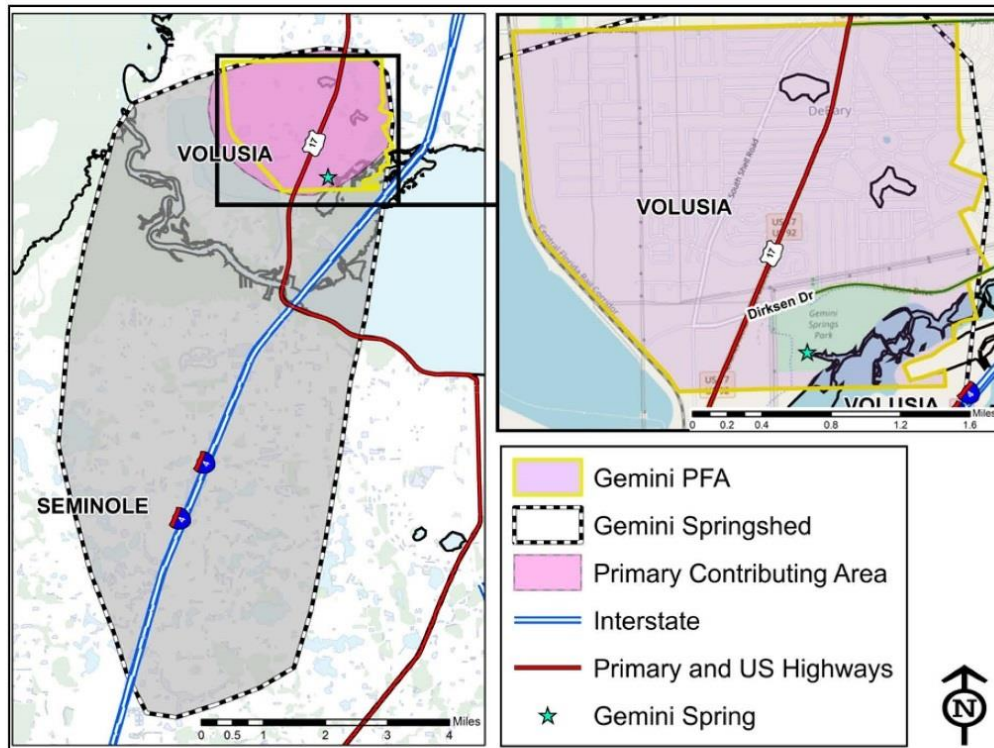
GOAL:  
To Reduce the  
Nutrient Loads to  
Gemini Springs by  
74%





# Priority Focus Areas

## GOAL WITHIN THE PRIORITY FOCUS AREA

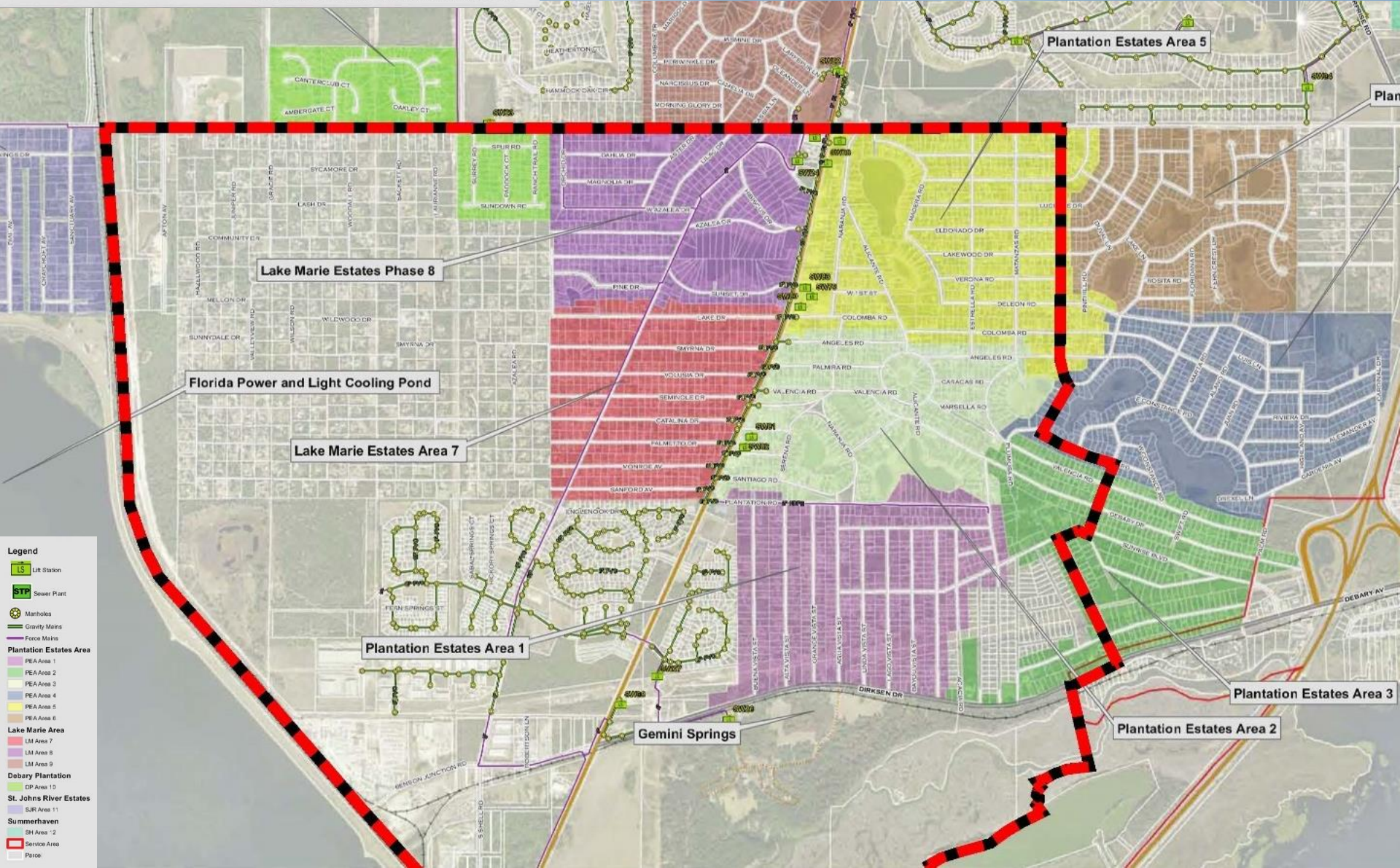


- Reduce Nitrogen Loads to the Groundwater by 9,080 lbs-N/yr
- Average Nitrogen Load per Septic Tank = 7.74 lbs-N/yr
- Number of Septic Tanks required to be converted to Central Sewer ~ **1,200 homes**

Southwest Volusia  
 Gemini Springs Basin  
 Septic Tank Elimination Plan



Prepared by: Volusia County Public Works/RI Date: 9/24/2014  
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- Legend**
- LIR Station
  - Sewer Plant
  - Manholes
  - Gravity Mains
  - Force Mains
  - Plantation Estates Area**
  - PEA Area 1
  - PEA Area 2
  - PEA Area 3
  - PEA Area 4
  - PEA Area 5
  - PEA Area 6
  - Lake Marie Area**
  - LM Area 7
  - LM Area 8
  - LM Area 9
  - Debary Plantation**
  - DP Area 10
  - DP Area 11
  - St. Johns River Estates**
  - SJRE Area 12
  - Summerhaven**
  - SH Area 13
  - Service Area
  - Parcel

## APPROXIMATE COST TO IMPLEMENT

- Based on a Volusia County Water Quality Study it costs approximately \$27,000/parcel to design and construct the following:
  - Water Mains (pipes and fire hydrants)
  - Central Sewer (manholes and gravity pipes)
  - Sewer Hook-Up Costs
- $\$27,000/\text{parcel} \times 1,200 \text{ parcels} = \$32,400,000$

## UPCOMING STEPS

- Initiate coordination meetings with the FDEP and the SJRWMD in order to pursue grants (the goal is to secure a minimum of 50% grant funding)
- Coordinate with Volusia County to undertake a Feasibility Study
- Conduct Future Meetings regarding Funding Alternatives
- Conduct Proactive Public Involvement / Education Workshops