

Reuse, Restore, Recharge, Reduce, & Recreate: The Ocala Wetland Recharge Park

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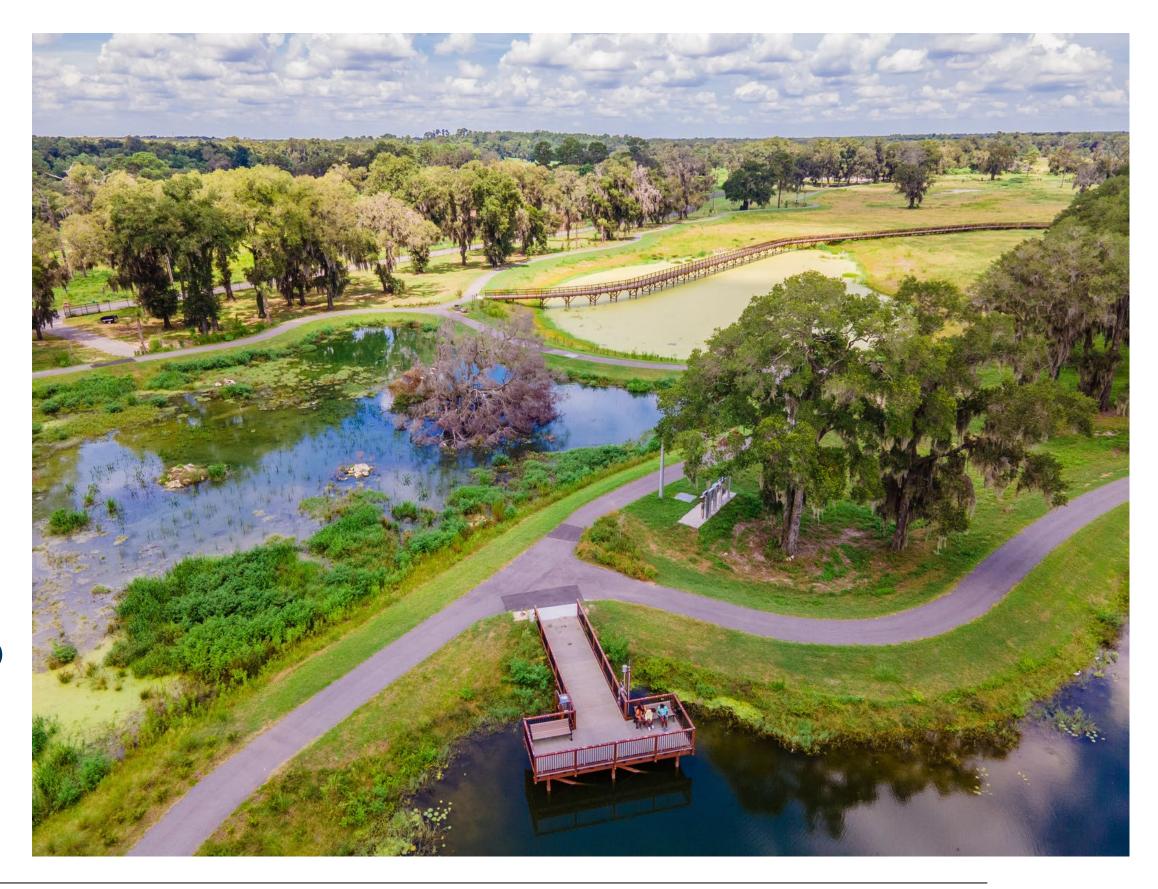
Challenging today. Reinventing tomorrow.



- 60-acre park
- Designed to recharge the Upper Floridan Aquifer (UFA)
- Opened to the public in 2020/2021
- 2.5 million gallons of reuse and stormwater a day

Park Staff:

- Water Operations Manager (Maintenance)
- Conservation Coordinator (Education and Outreach)
- Groundskeeper Foreman
- 2 Groundskeepers

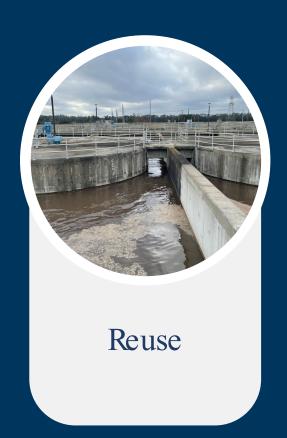


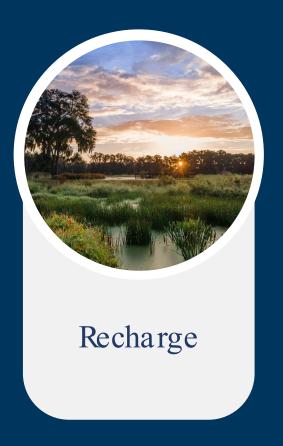






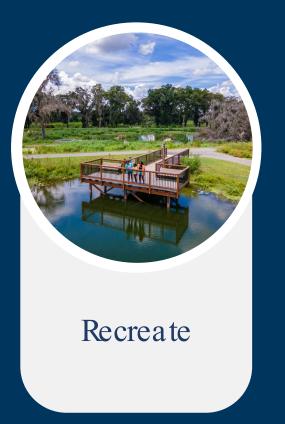
Overall Goals

















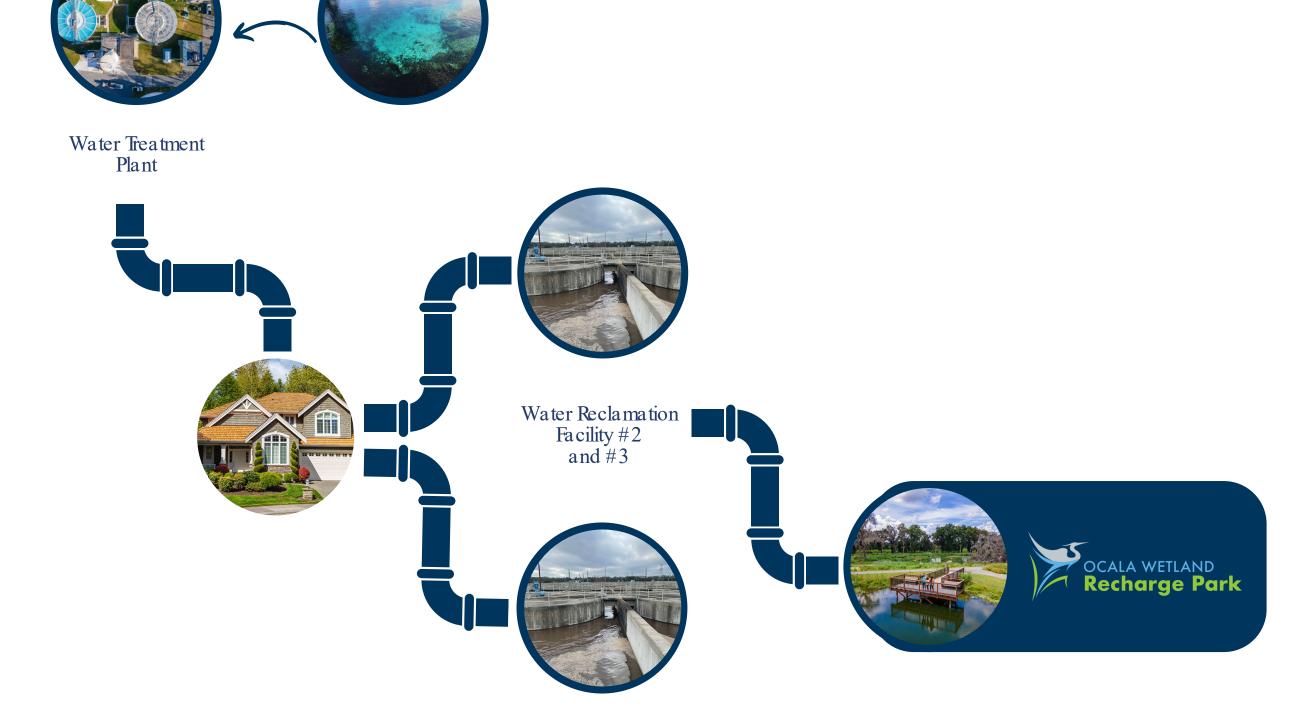
Reuse

Water Sources

- Water Reclamation Facility #2
- Water Reclamation Facility #3
- Old City Yard stormwater

Tertiary Treatment Limits

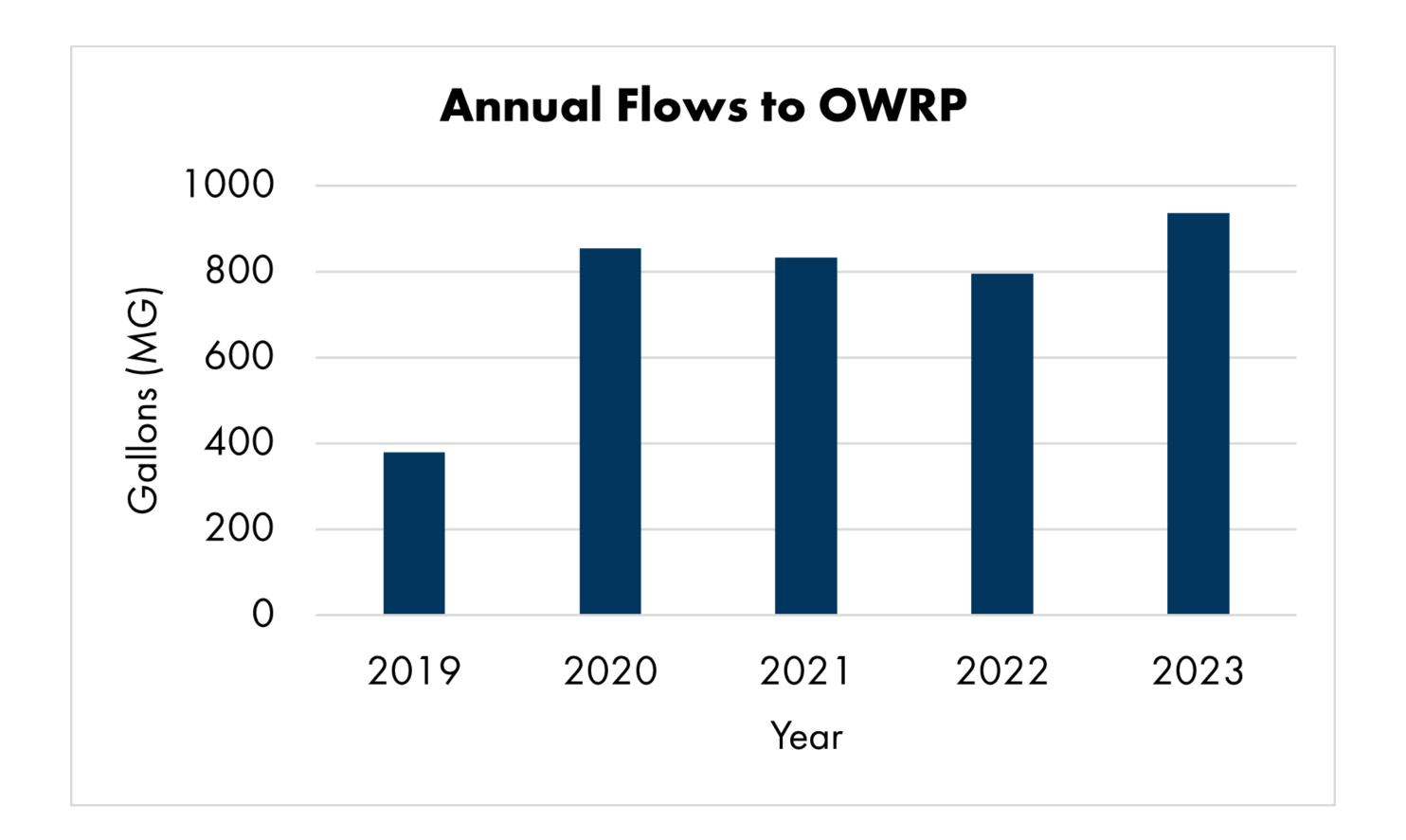
- 5 mg/ LCBOD
- 5 mg/ LTSS
- 3 mg/ LTN









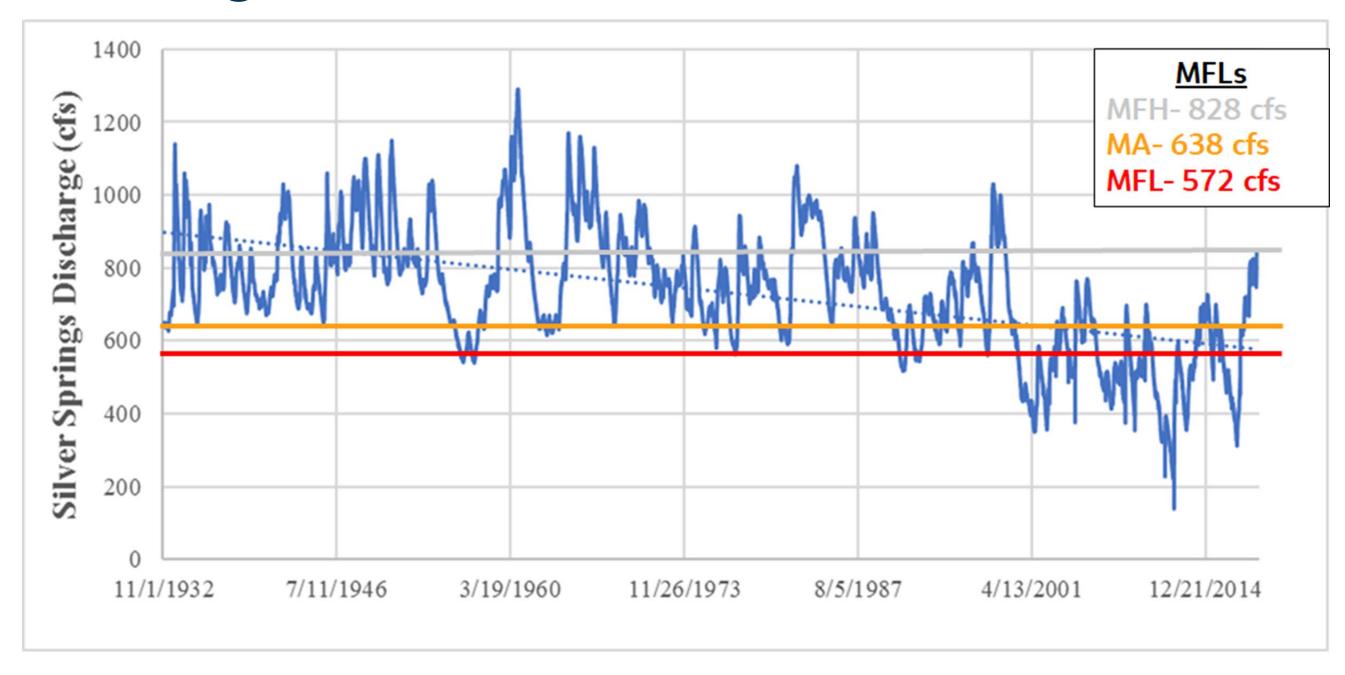








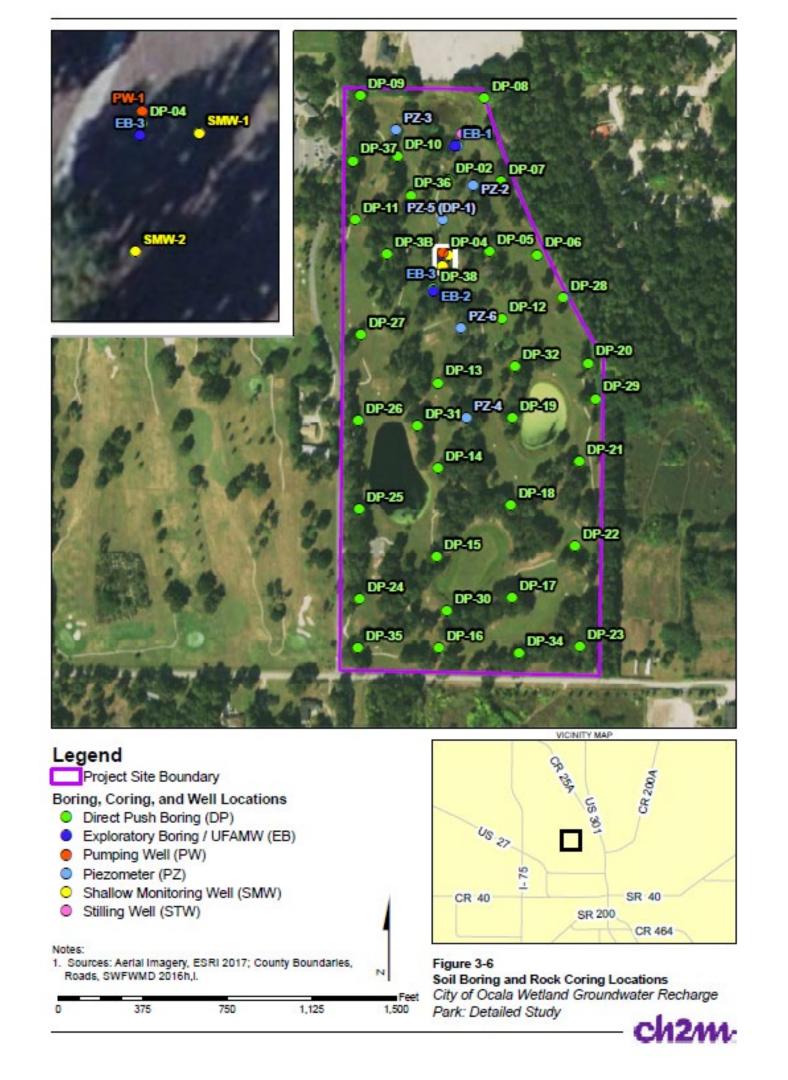
Recharge and Restore



Source: USGS STATION 02239501 (POR: DEC. 1932 - MARCH 2019) SJRWMD, 2017









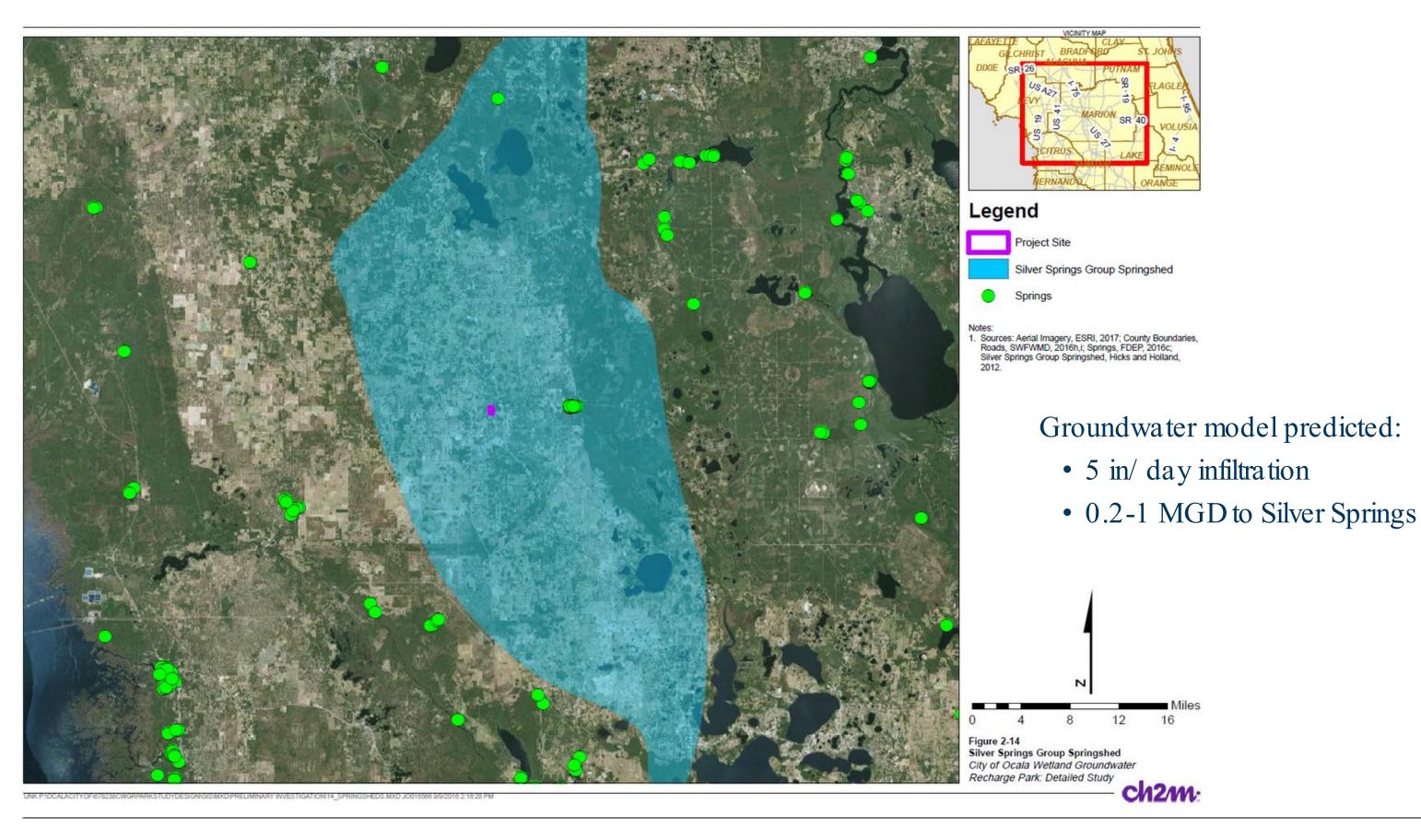
Recharge and Restore

Site Conditions

- Site Hydrogeology
 - Well-drained soils
 - No or very thin surficial aquifer
 - Direct connection to the Upper Floridan Aquifer
- Sand and fine soils promote infiltration

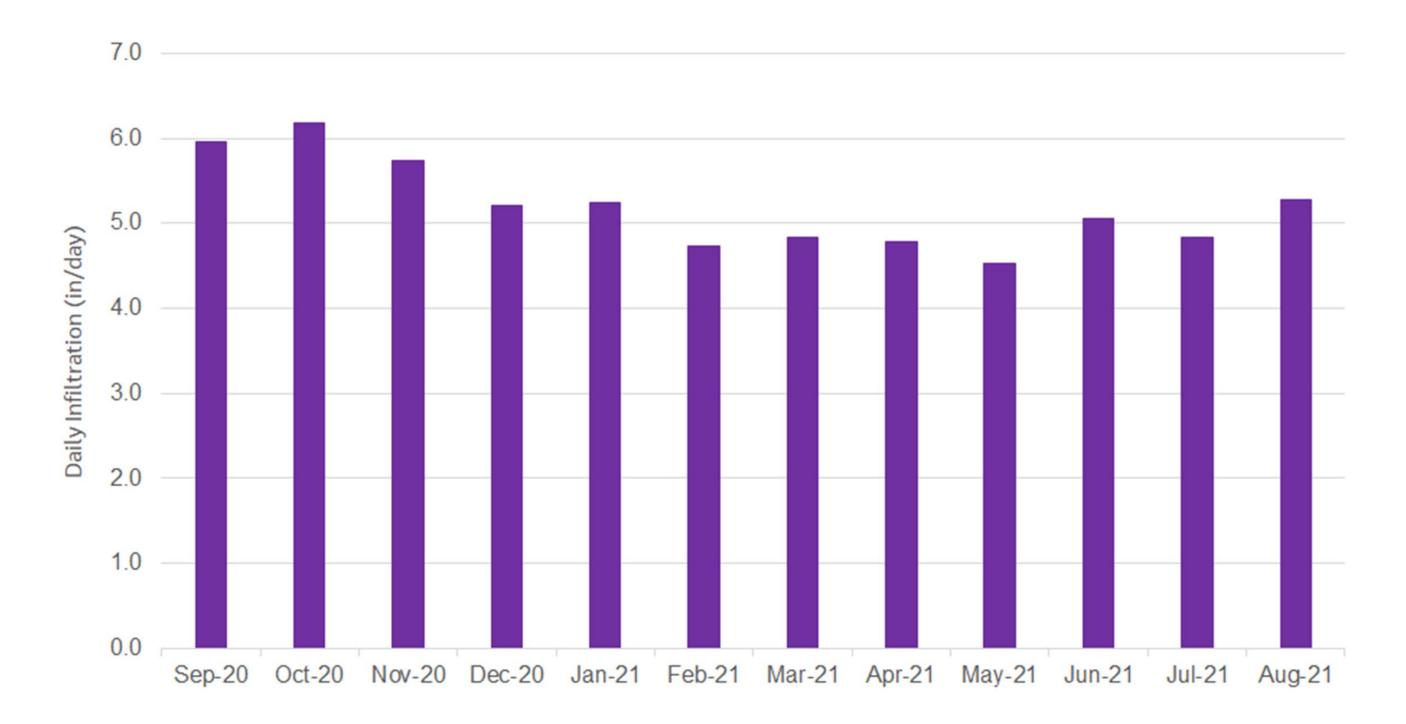












3 billion gallons of reclaimed water has been applied to the site since it opened in September 2020





Recharge and Restore



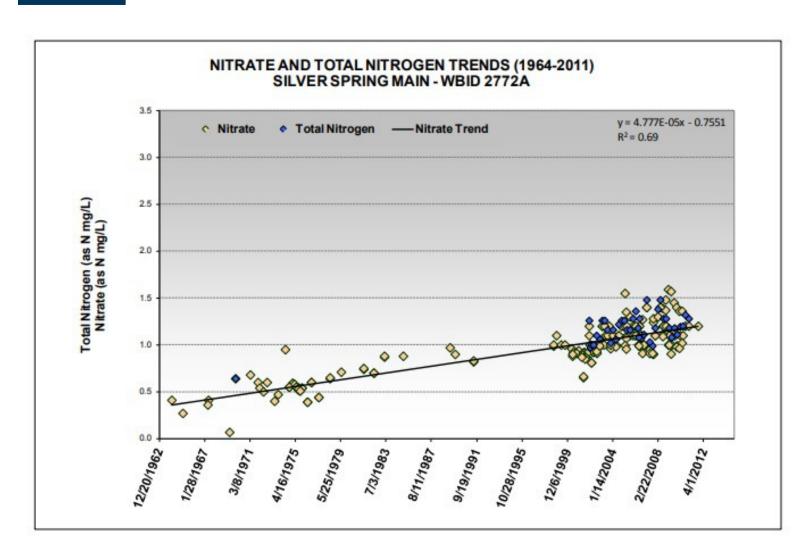








Reduce and Restore



- Total Maximum Daily Load (TMDL): 0.35 mg/ L
- TMDL% reduction: 79 %

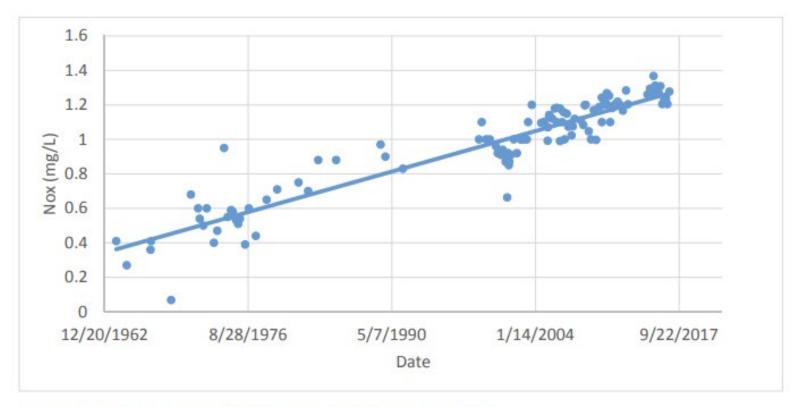
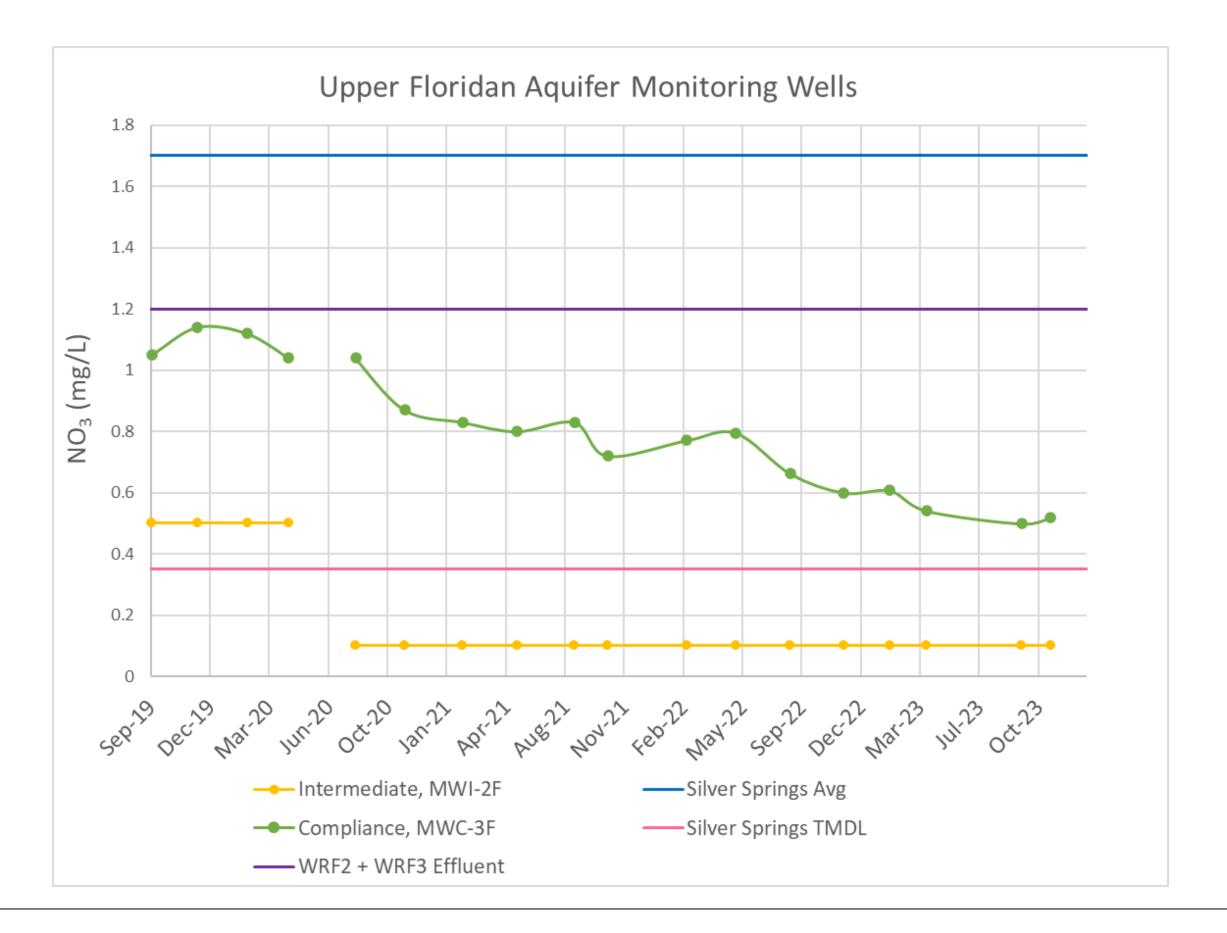


Figure 31. NOx concentration at Mammoth Springs 1964-2016. Source: USGS

Source: TMDLReport: Ocklawaha Basin; Silver Springs, Silver Springs Group, and Upper Silver River (WBIDs 2772A, 2772C, and 2772E); Nutrients; November 2012





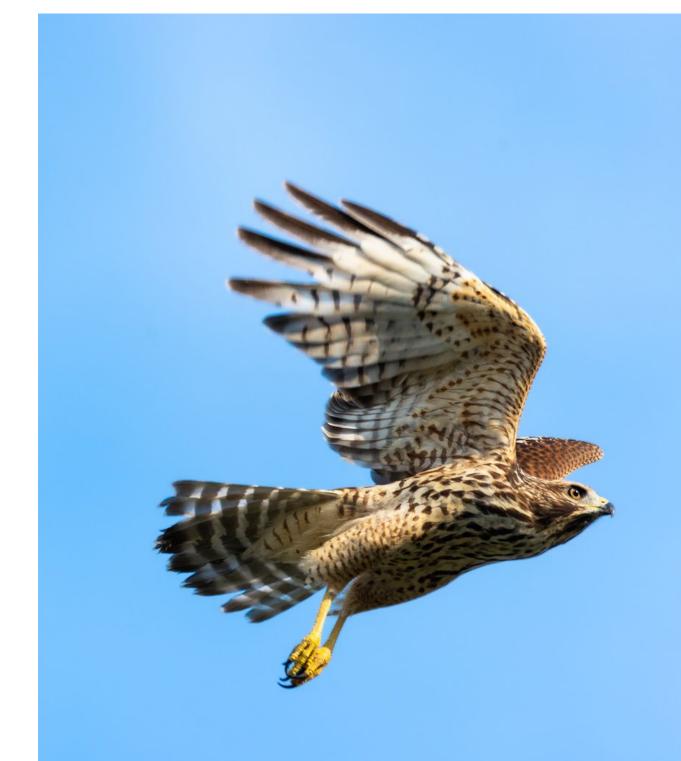






Recreation and Education

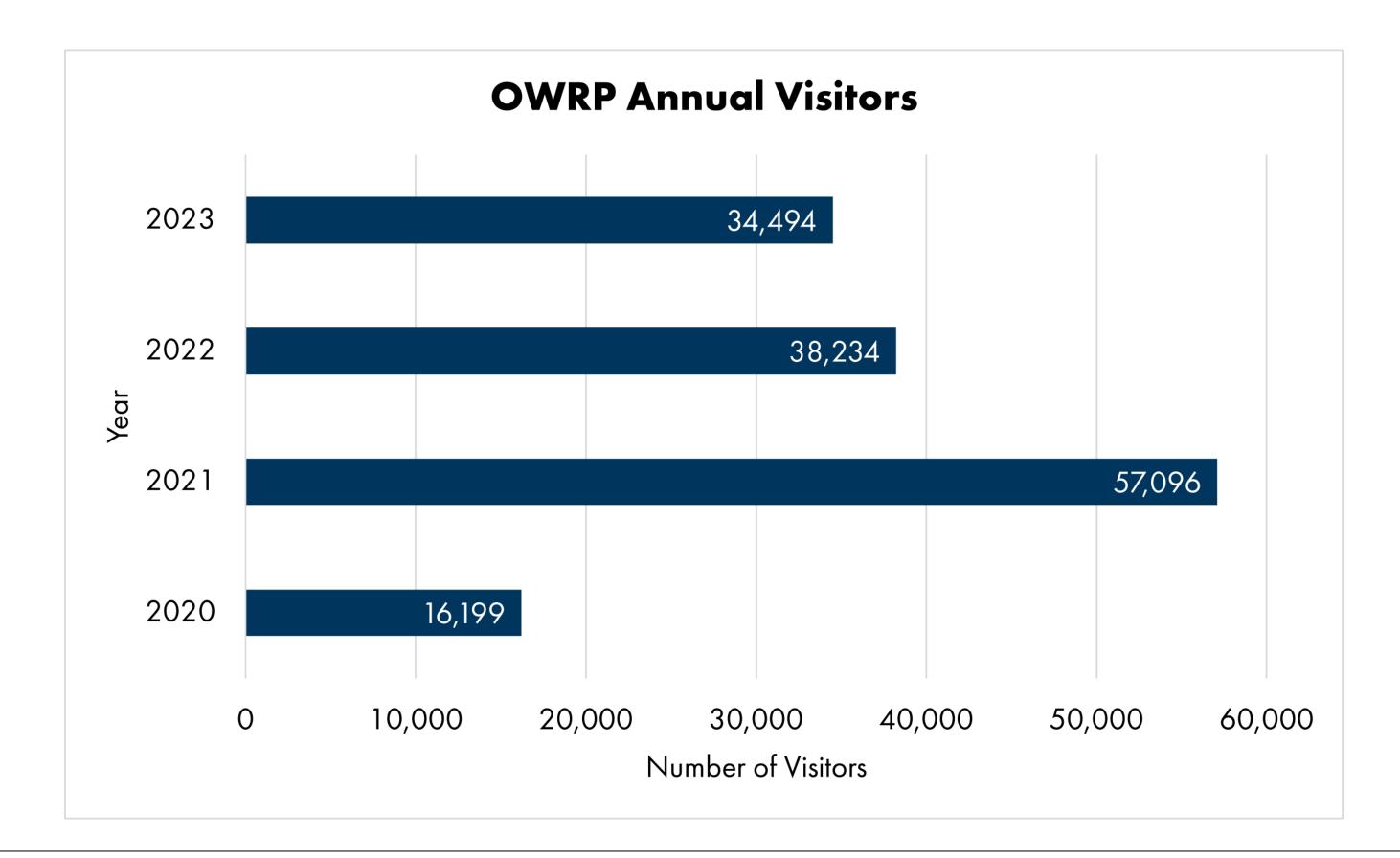
- 2.5 miles of paved trail
 - ADA compliant
- 20 education kiosks
 - Water and wildlife education
- 4 permanent exhibits
 - Museum quality, hands on learning
- Open-air pavilion
 - Restrooms, water fountains
- 2021 National Recreation and Park Association Awards
 - Innovation in Conservation Award
 - Best in Innovation Award
- 2023 Great Florida Birding and Wildlife Trail site
 - 170 species of birds spotted and recorded















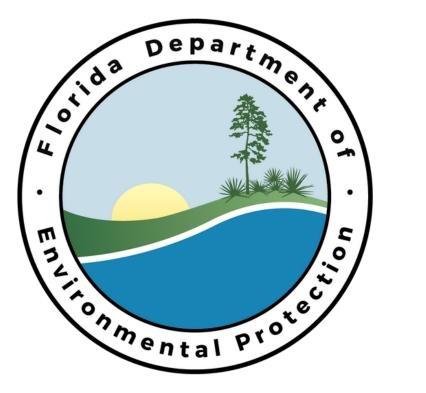


Partners and Funding Sources

Cooperative Partners

- St. John's River Water Management District Cost Share Funding: \$2 million
- Florida Department of Environmental Protection Springs Funding: \$2 million
- FDEP 319 Nonpoint Education Source: \$319,208.16
- FDEP Recreational Trails: \$200,000
- FDEP Recreational Trails: \$400,000









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