



# STATUS NETWORK RECONNAISSANCE

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Division of Environmental Assessment and Restoration  
Florida Department of Environmental Protection

Tallahassee, FL | April 22, 2025



# TOPICS

- Introduction.
- Process Steps.
- Exclusions.
- Documentation.
- Public Interaction.





# INTRODUCTION

Status Network Reconnaissance





# WATERSHED MONITORING INFORMATION CENTER

- Status Network Reconnaissance Manual.
  - Provides more detail than can be presented today.
  - Please review and become familiar with the manual.
- Review the Status Network Reconnaissance Manual
  - Updated in April 2024.

## Watershed Monitoring Information Center

[Home](#) » [Divisions](#) » [Division of Environmental Assessment and Restoration](#) » [Watershed Monitoring Section](#) » Watershed Monitoring Information Center

### Watershed-Monitoring-Section Quick links

[Status Network](#)

[Trend Network](#)

[Suwannee River Basin Sampling](#)

[Status and Trend Networks Brochure](#)

[Reports, Standard Operating Procedures, Documents and Links](#)

[Sediment Guidelines](#)

[Contacts](#)

[Florida Water Resources Monitoring Council](#)

[FWRMC Workgroups](#)

[All Watershed-Monitoring-Section content](#)

The information presented below is intended for use by staff who collect environmental data for the Florida Department of Environmental Protection (DEP) Status Network and Trend Network projects. The information presented below is not intended to be used for other monitoring projects. Please visit the [DEP Quality Assurance website](#) for general guidelines for other monitoring projects.

### [Contact Information](#)

### Sampling Information Standard Operating Procedures (SOPs) & Manuals

- [Sampling Manual](#) (April 2022)
- [Status Network Reconnaissance Manual](#) (April 2024)
- [GWIS Database Utilities Manual](#) (June 2024)
- [GNSS Basics Manual](#) (June 2024)
- [Project Manager Manual](#) (June 2022)
- [Data Management Protocols](#) (June 2024)
- [Monitoring Design Document](#) (2024)
- [Quality Manual](#) (January 2025)
- [GWIS Database Data Dictionary](#), Version 2.0
- [Groundwater Well Definitions](#)

### Sampling Schedule

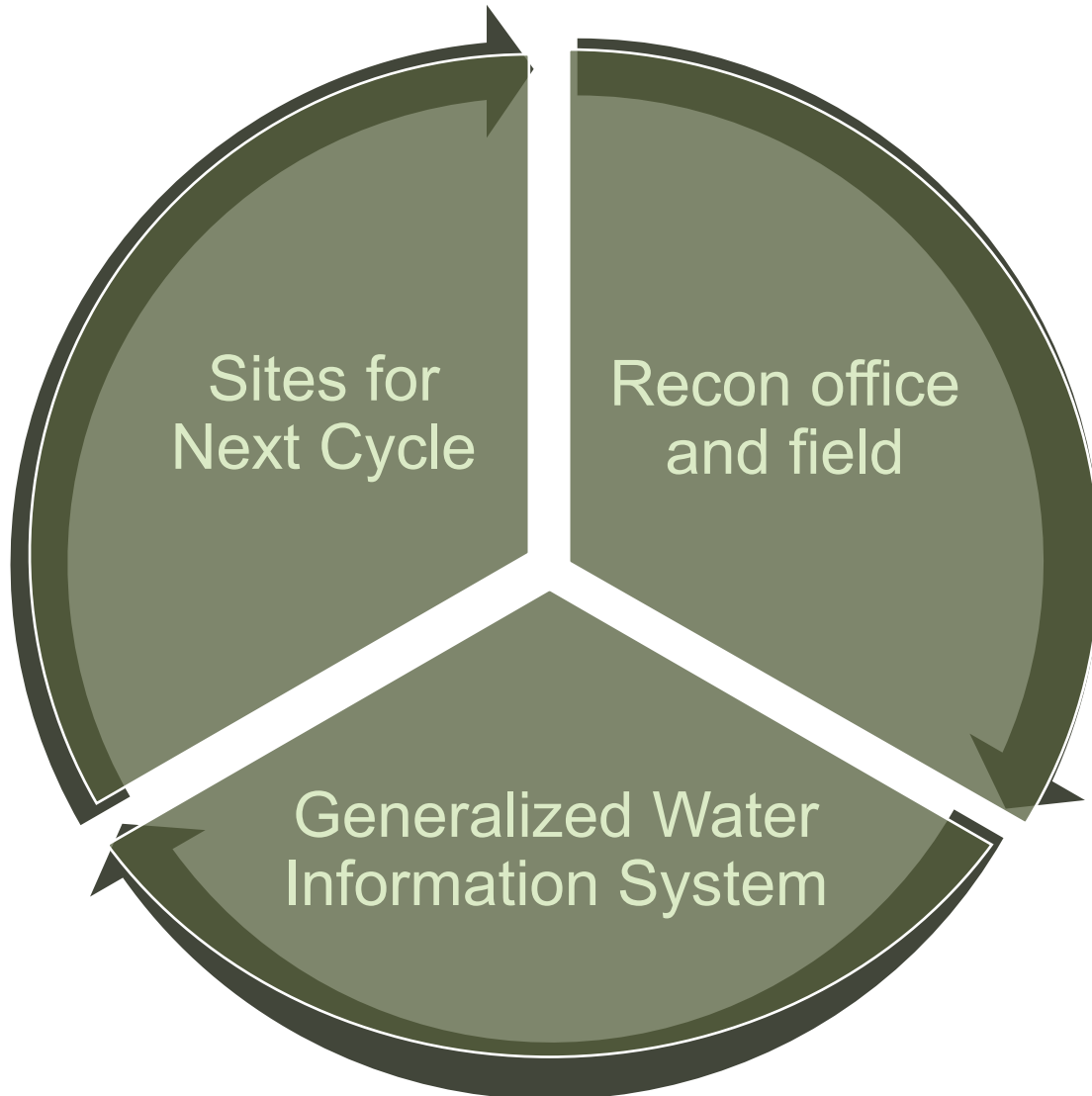
- [Status Network 2025](#)
- [Trend Network, October 2024 - September 2025](#)

### Data Entry Applications





# THE RECONNAISSANCE PROCESS



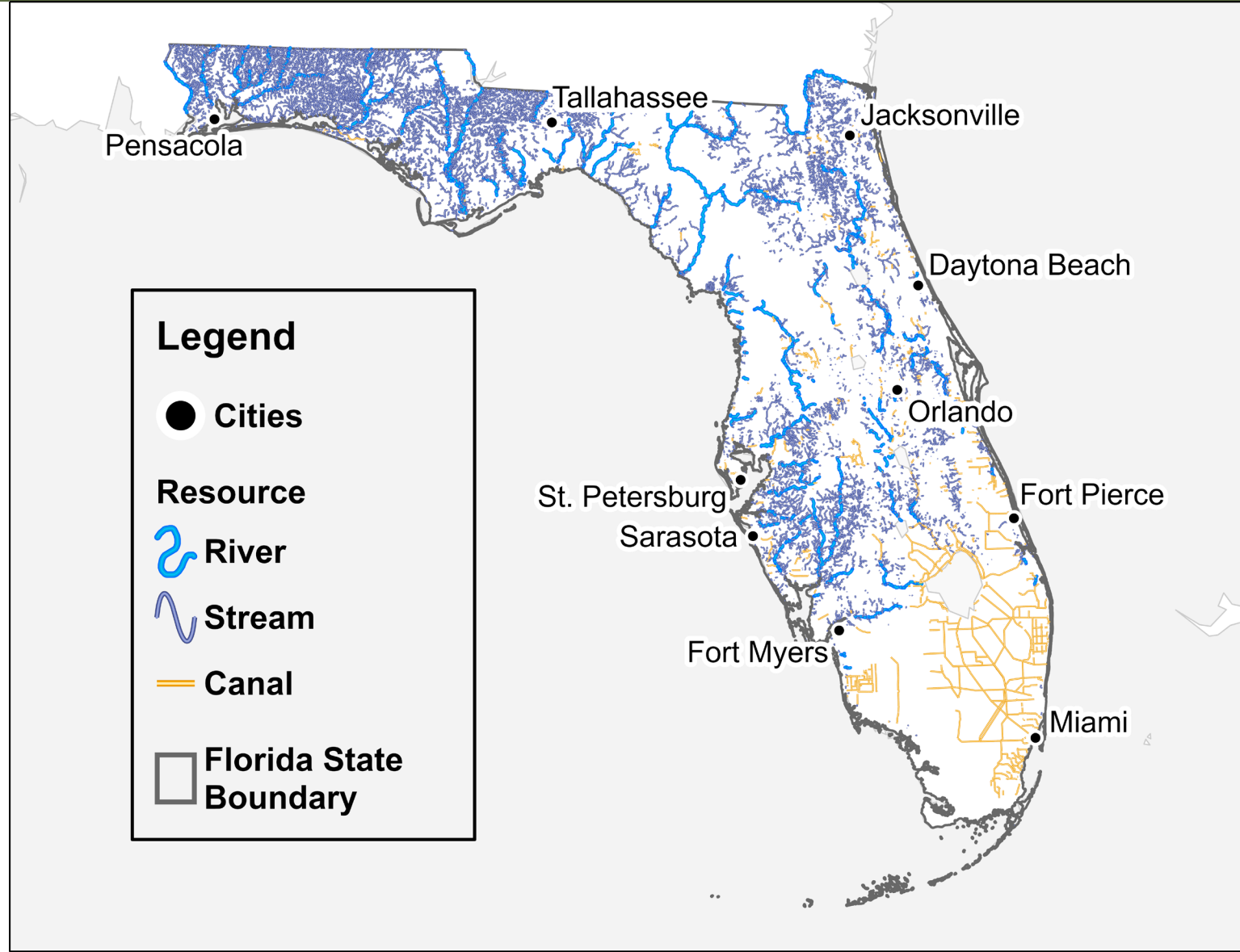
## Why conduct Reconnaissance (Recon)?

- Verify the correct resource is sampled.
- Ensure sampling can be performed safely.
- Assist resource analysts in improving coverage.





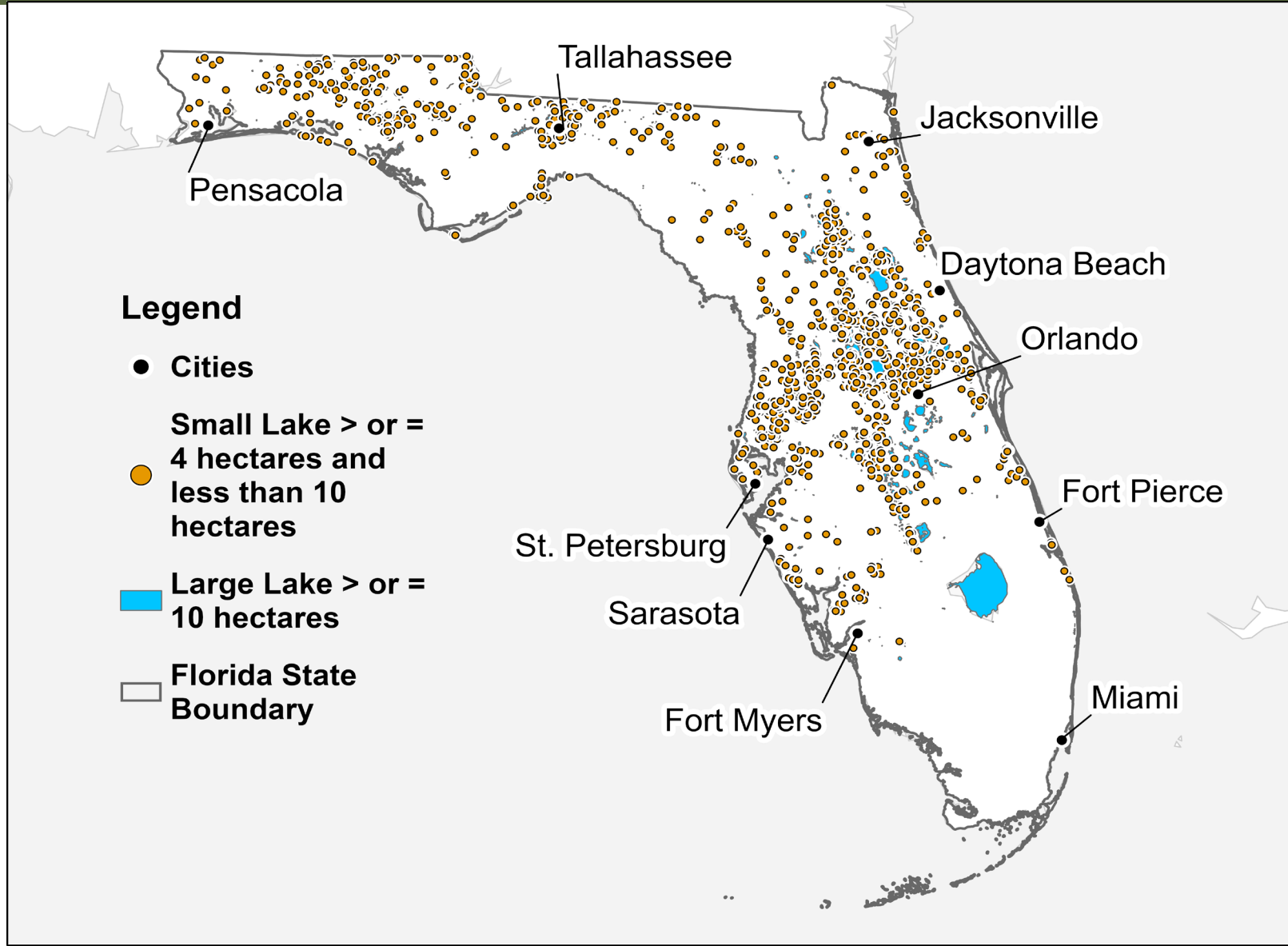
# STATUS FLOWING WATERS COVERAGE







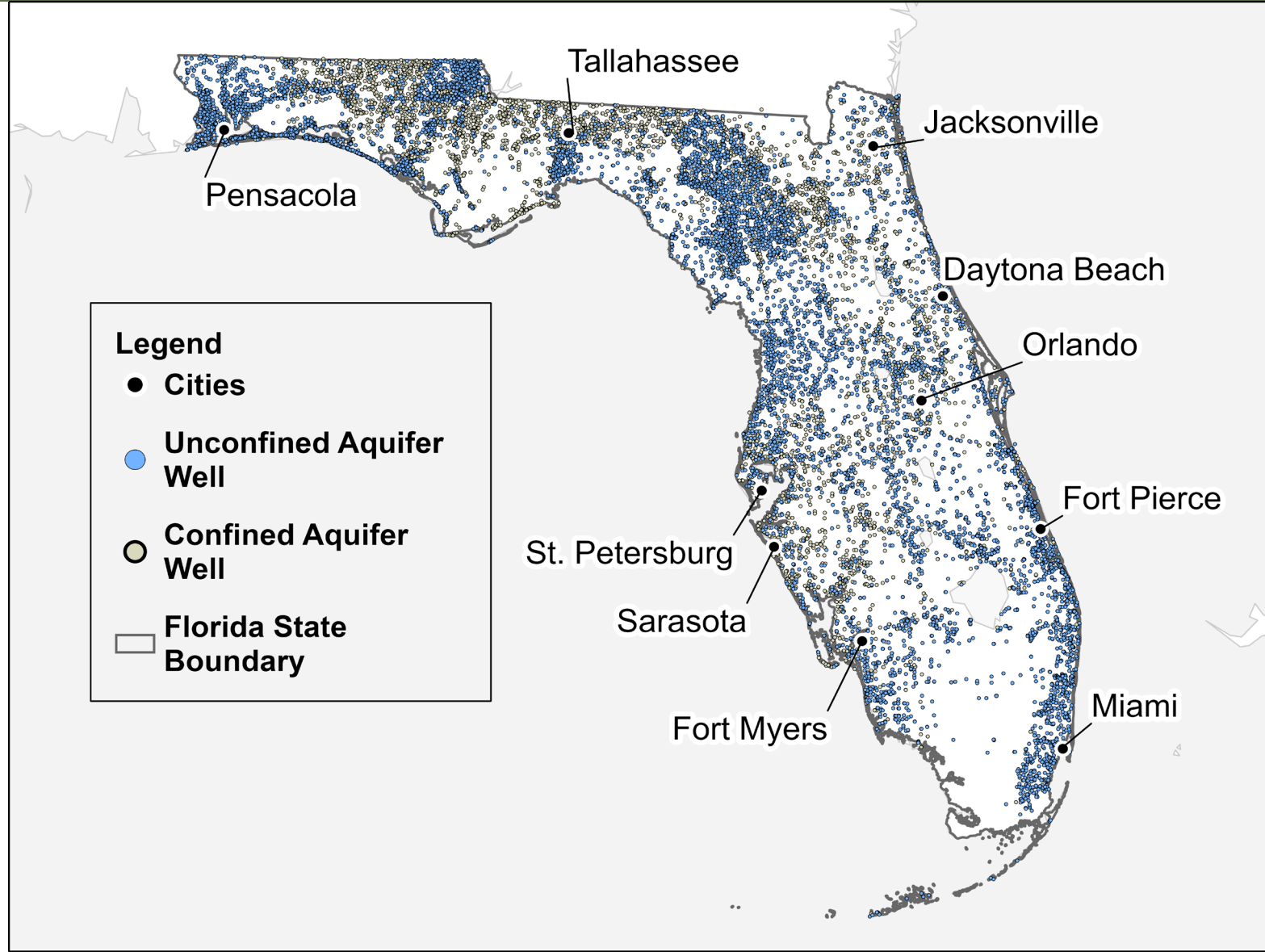
# STATUS LAKES COVERAGE







# STATUS WELLS COVERAGE





# RESOURCE ACRONYMS

- CN – Canals.
- SS – Streams.
- LR – Rivers.
- SL – Small Lakes.
- LL – Large Lakes.
- CA – Confined Aquifers.
- UA – Unconfined Aquifers.

ZONE 5      RIVER      CYCLE 17 (2023)

**Z5-LR-17001**

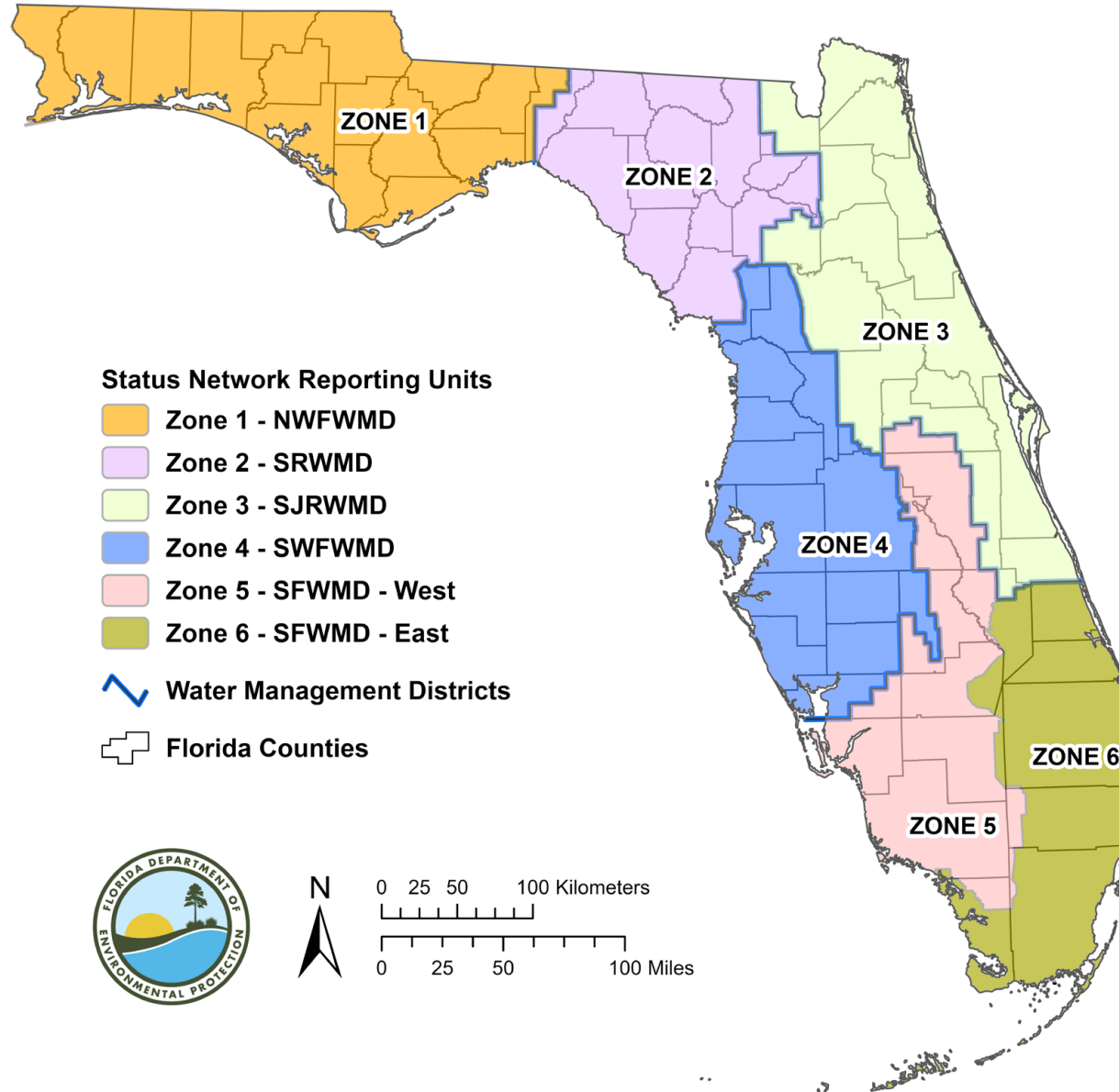
SAMPLE Number

A diagram illustrating the components of a sample ID. The ID "Z5-LR-17001" is shown in large, bold, black font. Above the ID, three labels with arrows point to specific parts: "ZONE 5" points to the "Z5", "RIVER" points to the "LR", and "CYCLE 17 (2023)" points to the "17". Below the ID, a label "SAMPLE Number" has an arrow pointing to the "001" at the end of the ID. The "17" in the ID is underlined.





# Watershed Monitoring Reporting Units







# PROCESS STEPS

Status Network Reconnaissance





# OFFICE RECON

- Office recon should be completed one month prior to the sampling index period.
- Get list of sites.
  - Generalized Water Information System (GWIS) Database Utilities.
- Launch Map Direct from GWIS Database Utilities to view sites.



# ACCESSING GWIS DATABASE UTILITIES

GWIS Database Utilities: <https://prodapps.dep.state.fl.us/gwis/>

External staff (e.g., NFWFMD).

- Tommy Adams, WMS Data Coordinator.
  - 850-245-8512.
  - [Thomas.L.Adams@FloridaDEP.gov](mailto:Thomas.L.Adams@FloridaDEP.gov).

DEP staff.

- Use DEP username and password.
- Contact Tommy Adams if you need permissions updated to enter recon information.





# RECON TRACKING

The screenshot shows the Recon Tracking web application. On the left is a dark sidebar with navigation links: Home, Recon Tracking, Existing Station, New SW Station, and New GW Station. A yellow arrow points to the "Recon Tracking" link. The main content area has a header "Recon Tracking" and several form fields: "Resource Type" (set to UNCONFINED AQUIFER), "Reporting Unit" (set to ZONE 4), and "Reporting Cycle" (set to 17). The "Site Location Range" field consists of two empty input boxes separated by a hyphen. A yellow arrow points to this field. Below the input boxes, red text provides instructions: "Leave empty to return all records if creating an export file. If creating a map for more than one site, limit range to less than 140 sites." At the bottom right are three buttons: "Reset Form", "View Results", and "CSV".

Recon Tracking

Resource Type: UNCONFINED AQUIFER ▼

Reporting Unit: ZONE 4 ▼

Reporting Cycle: 17 ▼

Site Location Range:  -

Leave empty to return all records if creating an export file.  
If creating a map for more than one site, limit range to less than 140 sites.

Reset Form View Results CSV

Leave "Site Location Range" blank to retrieve all sites in the Zone.



# RECON TRACKING

⏪

Home

Recon Tracking

Existing Station

New SW Station

New GW Station

Recon Tracking Results

Selection Criteria:

Resource Type = UNCONFINED AQUIFER; Reporting Unit = Zone 4; Reporting Cycle = 17;

Show Map

CSV

RANDOM SAMPLE LOCATION	LATITUDE	LONGITUDE	SAMPLEABLE	STATION ID
Z4-UA-17001	28° 22' 46.021"	81° 49' 25.014"	N/A	1074
Z4-UA-17002	27° 21' 58.97"	82° 0' 25.447"	N/A	7898
Z4-UA-17003	27° 53' 19.799"	82° 41' 50.113"	N/A	884





# RECON TRACKING

Key:	Sampleable	Sampled	Field Recon	Contact Owner	Excluded
Site Number	NAME	COUNTY	SAMPLED_DATE	Recon Notes	Access
Z4-SL-18001		CITRUS			
Z4-SL-18002	GLASS LAKE	HILLSBOROUGH			
Z4-SL-18003		HILLSBOROUGH		Streetview is blurry, but there should be a path. There is a lake office if neither of those work.	<b>Option 1:</b> 28 07 11.88, -82 30 30.65, <b>Option 2:</b> 28 07 04.35, -82 30 29.89, <b>Lake Office:</b> 28 07 04.58, -82 30 14.05
Z4-SL-18004		SARASOTA		Access off of Forbes Trail, in the Deer Prairie Creek Preserve. SWFWM key should work, if not talk to the office	27 06 28.43, -82 19 08.36
Z4-SL-18005		SUMTER		WETLAND	
Z4-SL-18006		PASCO		Point appears to be dry? Lake has been shrinking over time and as of June 2023 the point appears to be located in a dry	
Z4-SL-18007		HILLSBOROUGH		Contact Lakeview at Citrus Park. There is a sidewalk leading to a dock (long way to carry canoes) and possibly a spot at the end of a roundabout, depending on vegetation thickness	
Z4-SL-18008	LAKE CHILTON	HIGHLANDS		Easy access off of N Priestler Rd.	28 37 59.45, -81 33 27.64
Z4-SL-18009		PASCO		Might be able to drive behind construction site to access. If not, will	
Z4-SL-18010	EAST LAKE ELLIS	PASCO		Access from parking lot of Ukelele Brand's. Might need to talk to an	4805 Land O' Lakes Blvd Land O' Lakes, FL 34639
Z4-SL-18011	CRYSTAL LAKE	POLK		Should be able to access off the side of Hwy 27, behind billboard	28 09 36.75, -81 38 25.29
Z4-SL-18012		POLK		WETLAND	
Z4-SL-18013	MILLS SMOKEHOUSE POND	HERNANDO		Might just be a wetland, contact owner	
Z4-SL-18014		PASCO		WETLAND	
Z4-SL-18015	LAKE SILVER	HILLSBOROUGH		Mostly houses, some businesses. May be able to access behind Midflorida Credit Union	
Z4-SL-18016		HIGHLANDS		Private, will need to contact homeowners	
Z4-SL-18017	LITTLE CLEARWATER LAKE	MARION		Deep in agricultural property, will need to contact	
Z4-SL-18018		PASCO		Deep in Starkey, but should be able to access through trails. Should contact park to be sure.	
Z4-SL-18019	LAKE WASTENA	HILLSBOROUGH		Only private access, contact	
Z4-SL-18020		SARASOTA		In the Lincer Preserve. Looks very difficult to access, probably requires offroading. May be able to access off of Border Road. In the floodzone of Myakka River so do not do right after heavy rains.	Boarder Road Entrance: 27 07 21.39, -82 20 34.00 Possible Trail?: 27 07 21.37, -82 19 32.06
Z4-SL-18021	BIRD ISLAND LAKES	PASCO		DRY AS A BONE	
Z4-SL-18022	COOL KELL LAKE	HILLSBOROUGH		Accessible behind stormwater pond	28 09 57.86, -82 27 02.09
Z4-SL-18023		HERNANDO		Looks like a wetland	
Z4-SL-18024		POLK		Private, will need to contact homeowners	

- Open comma-separated values (CSV) file with Excel.
- Document recon progress.
- Project manager will review your comments and exclusions.



# TEAMWORK

- You may be part of a recon team for a specific resource.
  - Communicate with each team member.
  - Track completion of assigned tasks.
  - Work efficiently.



# STATUS NETWORK RECON

- Presents unique challenges for site access logistics and obtaining permission from property owners.
  - Sites often have not been previously visited.
  - Sites are only sampled once.





# OFFICE RECON FOR SURFACE WATER

Target  
Population?

Site Accessible?

Site Wet?

Owner  
contacted?

Owner gave  
permission to  
access site?

If **no** to any question, then  
complete GWIS  
exclusions/comments.

Go to the site.



# OFFICE RECON FOR GROUNDWATER

Target  
Population?

Well Accessible?

Well owner  
contacted?

Permission  
granted?

Sampling point  
available prior to  
softener / chlorinator /  
or filter?

If **no** to any question, then  
complete GWIS  
exclusions/comments.

Go to the site!



# STATUS NETWORK RECON

## FIND YOUR SITE AND ITS OWNER

- Open Map Direct from GWIS Database Utilities.
  - Previously sampled sites.
  - Cadastral layer.
    - Property owner information.
- Search for property owner contact information.
  - Spokeo.
  - Sunbiz.
  - Internet search.
  - Large landowners.





# RECON WITH MAP DIRECT

◀◀

Home

Recon Tracking

Existing Station

New SW Station

New GW Station

Recon Tracking Results

Selection Criteria:

Resource Type = SMALL LAKE; Reporting Unit = Zone 4; Reporting Cycle = 17;

Show Map

CSV

RANDOM SAMPLE LOCATION	LATITUDE	LONGITUDE	SAMPLEABLE	STATION ID
Z4-SL-17001	27° 39' 27.4122009"	81° 28' 58.6825981"	YES	
Z4-SL-17002	28° 9' 17.698"	81° 36'	NO	



# RECON WITH MAP DIRECT



Sampled stations (GWIS) layer contains previous sampling locations.





# RECON WITH MAP DIRECT

Cadastral layer  
contains  
property owner  
information.

Map Direct: Generalized Water Information System

Search Box 125 feet wide at  
28.74657646 x -81.92606802  
28°44'47.6753" x -81°55'33.8449"

Drop Marker What's nearby?

Zoom To this selected feature Clear Print Table Download Format

Cadastral Property Appraiser Parcels - Cadastral 2020 (Property Appraiser Parcels) Public View

172024000200000100  
PARCEL ID

CITY OF LEESBURG  
OWN NAME

C45-000-448-8645-5  
STATE PAR ID

1600 COUNTY ROAD 470  
LEESBURG FL, FL 34748  
PHY Address

172024000200000100	PARCELNO
N 3/4 OF E 1/2 N'LY OF TURNPIKE	S LEGAL

Nearby Zoom Pan Remove

--Show County--

County Road 470

Z3-CA-15016

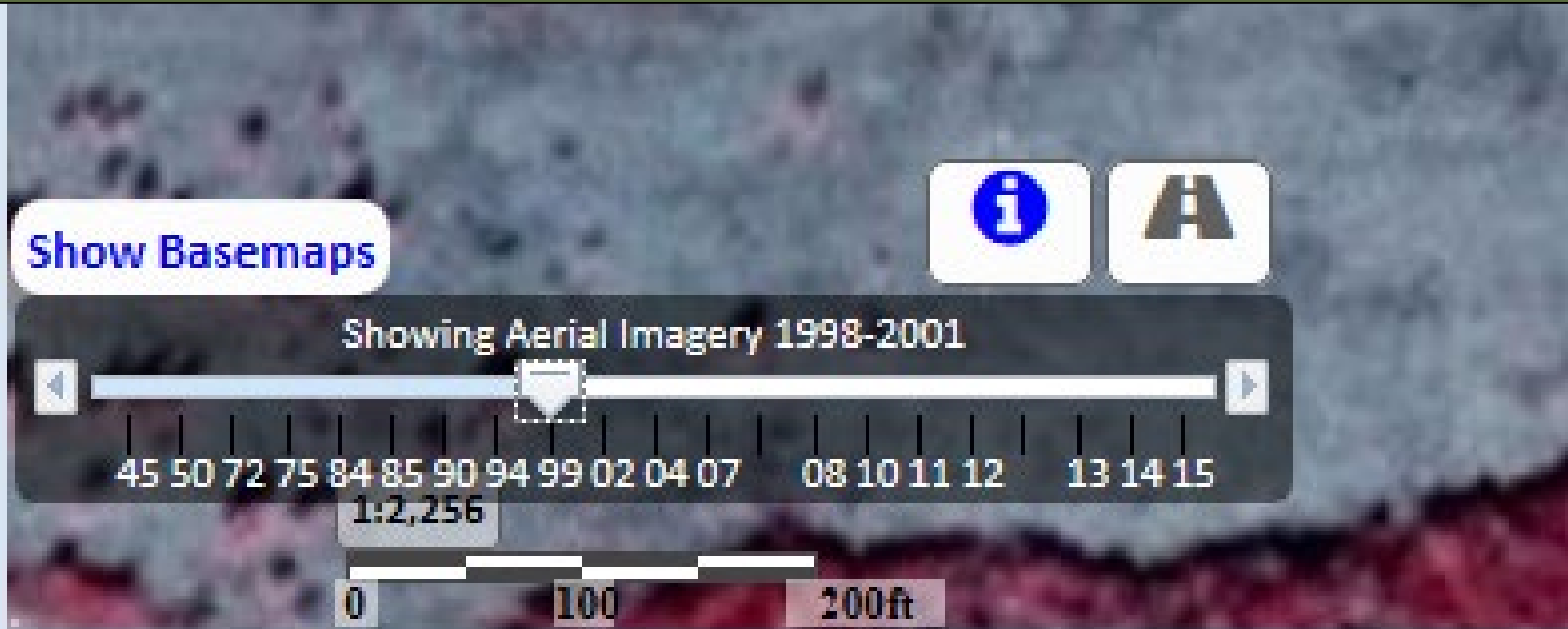
1:9,027

0 300 600ft





# RECON WITH MAP DIRECT



Use imagery slider to review available historic aerial photo layers.





# MAP DIRECT HELP PAGES

Click “What’s New” to find out what is updated in Map Direct.

Map Direct: Generalized Water Information System

Click the “?” icon.

Help and Contact

 **Florida Department of Environmental Protection**  Map Direct v7.210311

[More Information about Generalized Water Information System \(GWIS\) Map](#)

Click links below to open help documents.

- [What's New?](#) [PDF]
- [Quick Start Guide](#) [PDF]
- [Guide to Navigation](#) [PDF]
- [Guide to Searching](#) [PDF]
- [Guide to Search Results](#) [PDF]
- [Guide to Map Layers](#) [PDF]
- [Guide to Sharing & Printing](#) [PDF]
- [Guide to the Area of Interest Report](#) [PDF]
- [Guide to Drawing](#) [PDF]

Visit Us at [Florida Department of Environmental Protection](#)  
[Map Direct Disclaimer](#) | Powered by [ESRI](#) | [Data Download Website](#)  
[Contact Us](#)

Click on this link to view ArcGIS online page regarding GWIS Focus.



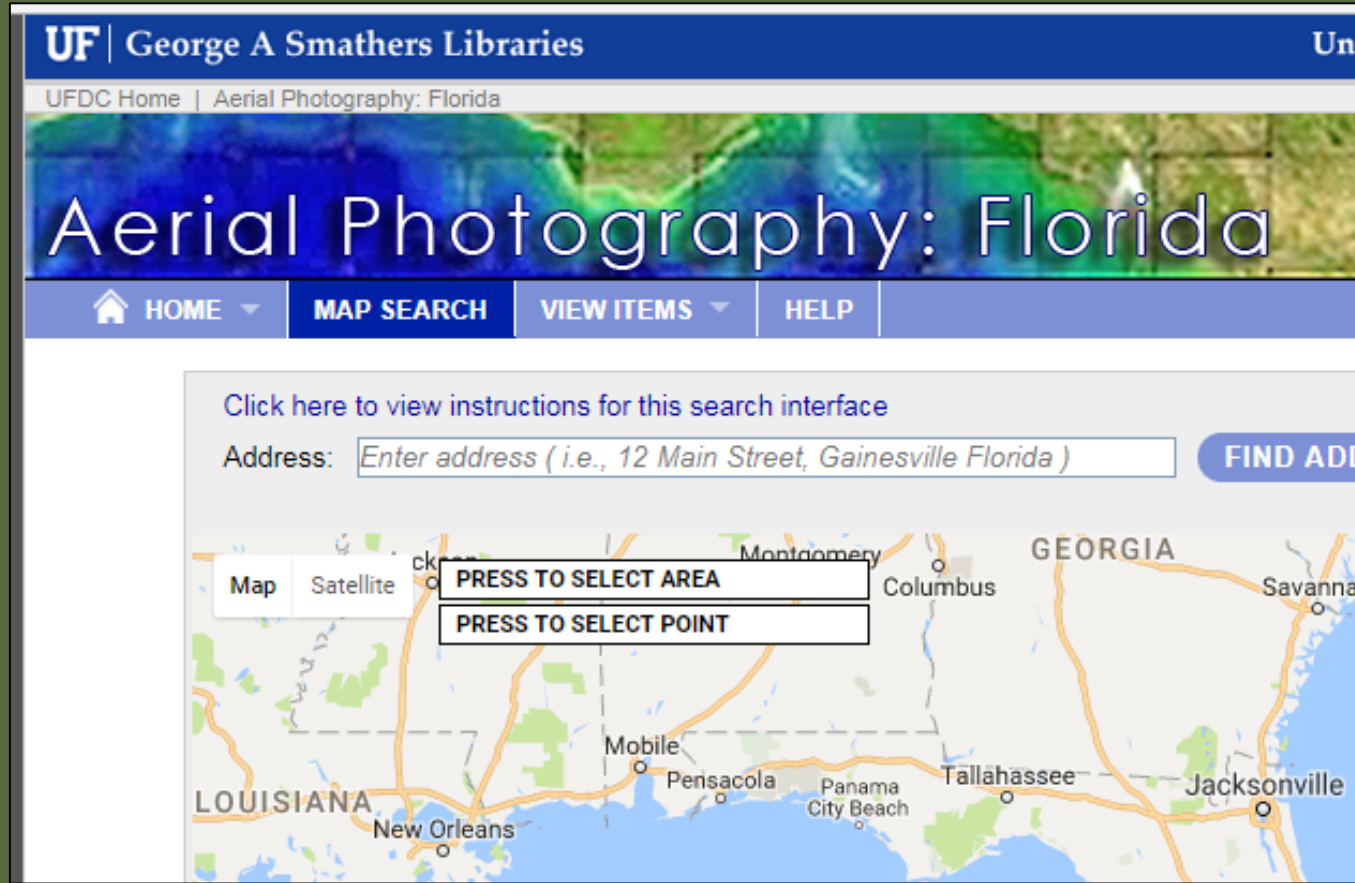
# WATERSHED MONITORING INFORMATION CENTER

- Map Direct resources.
- Custom files for Status Network Recon.
- Learn and customize Map Direct handout.





# ADDITIONAL RECON RESOURCES



Historical aerial photographs are available at the George A. Smathers library (UF).



# ADDITIONAL RECON RESOURCES

## HISTORICAL DATA FOR WELLS

- Well drilling reports.
- Well owner.
- Previous photos of the well.
  - Check sampled stations layers.
- Check with the water management district, U.S. Geological Survey, wastewater treatment and/or water treatment facilities.
- Review Recon Manual: Appendix B: Aquifers and Ground Water Programs.



# STATUS NETWORK RECON

## FIND YOUR SITE AND ITS OWNER

- Open Map Direct from GWIS Database Utilities.
  - Previously sampled sites.
  - Cadastral layer.
    - Property owner information.
- Search for property owner contact information.
  - Spokeo.
  - Sunbiz.
  - Internet search.
  - Large landowners.



# PROPERTY OWNER INFORMATION

## SPOKEO

- Provides past phone numbers, addresses and relatives' names.
- Please contact Ken Weaver for access and username.
  - [Kenneth.Weaver@FloridaDEP.gov](mailto:Kenneth.Weaver@FloridaDEP.gov)
  - 850-245-7609.
- DEP pays per search to use this service.





# PROPERTY OWNER INFORMATION

## SPOKEO

[SEE UPDATES NOW](#)

### Michael Askew Eckles, Age 42

Who was born in May 1978, lives in Tallahassee, FL and is also known as Micheal A Eckles or Michael Scott Eckles.

[GET UPDATES](#)[DOWNLOAD PDF](#) | [SHARE](#) | [MORE](#) ...

#### OVERVIEW

- **Contact** (5)
- **Locations** (6)
- **Family** (5)
- **Court**
- **Personal** (9)
- **Social** (2)
- **Wealth** (2)
- **Work**

#### CONTACT



850-228-7145

[...](#)

TALLAHASSEE, FL • AT&T Mobility

Found in 5 data sources 4 years ago



912-226-6055

[...](#)

SAVANNAH, GA • Bandwidth.com

Found in 2 data sources 11 years ago



229-226-6055

[...](#)

THOMASVILLE, GA • AT&T Southeast

Found in 2 data sources 4 years ago



meckles2@hotmail.com

HOTMAIL • 0 social profiles

Found in 2 data sources 3 years ago



michaeeckles@gmail.com

GMAIL • 0 social profiles

Found in 4 data sources 5 years ago



# PROPERTY OWNER INFORMATION

## SPOKEO

Will need to  
refine searches.

SPOKEO

John Smith

Alabama (3704)

Alaska (404)

Arizona (3423)

Arkansas (2158)

California (17576)

Colorado (3031)

Connecticut (2493)

Delaware (754)

District of Columbia (655)

Florida (13549)

SHOW ALL 52 LOCATIONS

Refine Your Search Results

RESIDES IN SAINT CHARLES, MO

Lived In Panama City FL, Panama City Beach FL, Canton GA, Woodstock GA

Related To Brandy Smith, Jeremy Smith, Nancy Smith, Jason Smith, Jordan Smith

Includes Profile Address(6) Phone(2)

John Clare Smith, 85

RESIDES IN DELTON, MI

Lived In Battle Creek MI, Augusta MI, Bellevue MI

Related To Minnie Smith, Courtney Smith, Clinton Smith, Graham Smith, Carole Smith

Also known as Johnc Smith, J Smith

Includes Profile Address(6) Phone(6) Email(5)

John A Smith, 69

RESIDES IN SAYREVILLE, NJ

Lived In Springfield PA, Clifton Heights PA, Lansdowne PA, Stratford NJ

Related To Diane Smith, Virginia Smith, Matthew Smith, Judith Smith, Dawn Smith

Includes Profile Address(8) Phone(2)

John E Smith, 75

RESIDES IN PETERSBURG, WV

Related To Faith Smith, William Smith, Connie Smith, Norma Smith, Valerie Smith

Includes Profile Address(5) Phone(4)



# PROPERTY OWNER INFORMATION

## SPOKEO



GET

## Spokeo. Know More.

NAME EMAIL PHONE ADDRESS

Enter a Name, Phone Number, Address or Email

SEARCH NOW

Search by name, phone, address, or email to confidentially lookup information about people you know such as yourself, friends, family, acquaintances, and old classmates.





# PROPERTY OWNER INFORMATION

## SUNBIZ

- State of Florida official business entity index and commercial activity website.
- Look up Limited Liability Companies (LLCs) and other business entities often used by large landowners.

<https://dos.myflorida.com/sunbiz/search/>





# PROPERTY OWNER INFORMATION

## SUNBIZ

### Lakeland Sands, LLC.

- Large Landowner.
- Owner is Bill Gates.
- Sunbiz shows a lawyer (ESQ) as the LLC contact.

#### **Detail by Entity Name**

Foreign Limited Liability Company  
LAKELAND SANDS, LLC

#### **Filing Information**

<b>Document Number</b>	M20000000208
<b>FEI/EIN Number</b>	N/A
<b>Date Filed</b>	01/06/2020
<b>State</b>	DE
<b>Status</b>	ACTIVE
<b>Last Event</b>	LC STMNT OF RA/RO CHG
<b>Event Date Filed</b>	05/12/2020
<b>Event Effective Date</b>	NONE

#### **Principal Address**

8789 PENROSE LANE  
SUITE 400  
LENEXA, KS 66219

Changed: 01/15/2021

#### **Mailing Address**

8789 PENROSE LANE  
SUITE 400  
LENEXA, KS 66219

Changed: 01/15/2021

#### **Registered Agent Name & Address**

WHARTON, JOHN L, ESQ  
215 S MONROE ST  
DEAN. MEAD & DUNBAR  
STE 815  
TALLAHASSEE, FL 32301



# PROPERTY OWNER INFORMATION

## LARGE LANDOWNERS

- Many properties are owned by irrevocable trusts.
  - Often managed by other companies.
- Helpful to keep a list of land management companies for areas visited frequently.
- Some large landowners will allow sampling for some resources, but not others.
  - Confirm restrictions at least once per year.



# OFFICE RECON FOR SURFACE WATER

Target  
Population?

Site Accessible?

Site Wet?

Owner  
contacted?

Owner gave  
permission to  
access site?

If no to any question, then  
complete GWIS  
exclusions/comments.

Go to the site!



# OFFICE RECON FOR GROUNDWATER

Target  
Population?

Well Accessible?

Well owner  
contacted?

Permission  
granted?

Sampling point  
available prior to  
softener / chlorinator /  
or filter?

If no to any question, then  
complete GWIS  
exclusions/comments.

Go to the site!





# EXCLUSIONS

Status Network Reconnaissance





# EXCLUSION CATEGORIES

## RANKED BY IMPORTANCE

- **Wrong Resource**
  - Highest priority.
  - Likely not available for selection in future cycles.
  - For anything deemed not a water of the state, contact your manager.
- **Otherwise Unsampleable.**
  - Depends on comments and exclusion criteria.
- **No Permission From Owner.**
  - Likely to be included in next cycle.
- **Unable to Access.**
  - Likely to be included in the next cycle.
- **Dry**
  - Likely to be included in the next cycle.



# EXAMPLE WRONG RESOURCE







# EXAMPLE

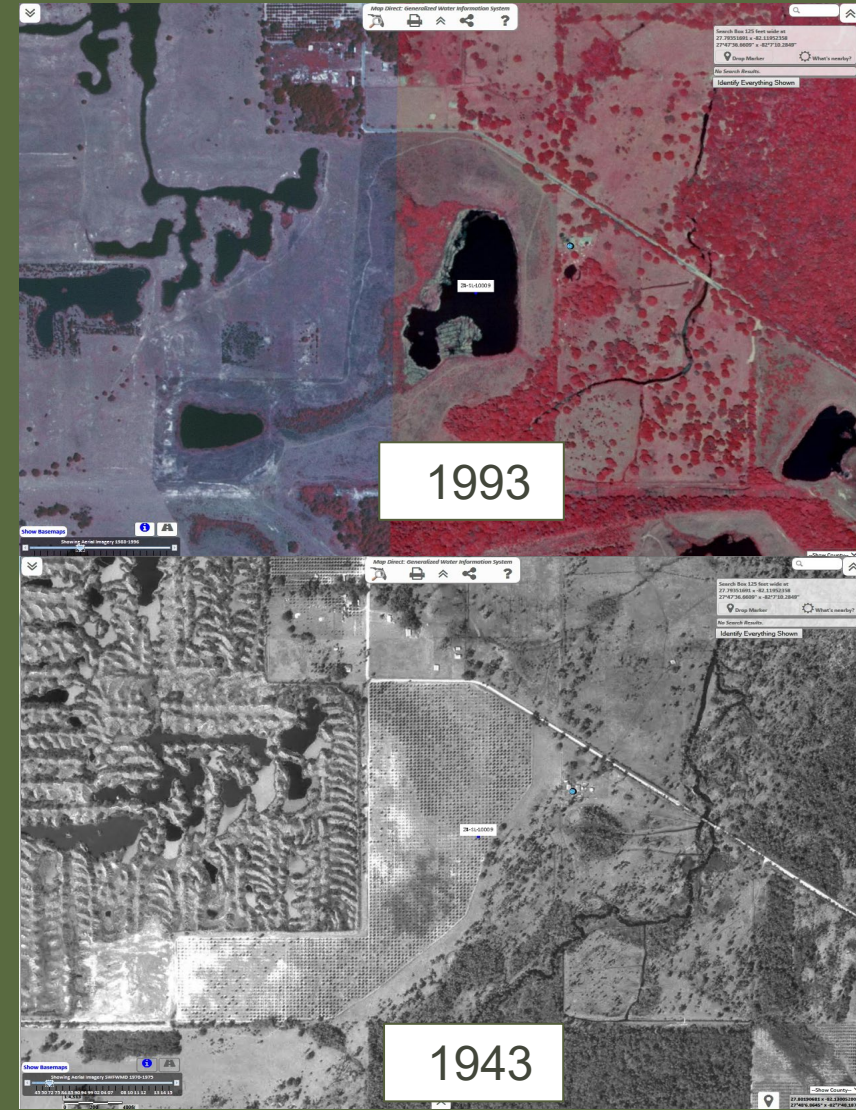
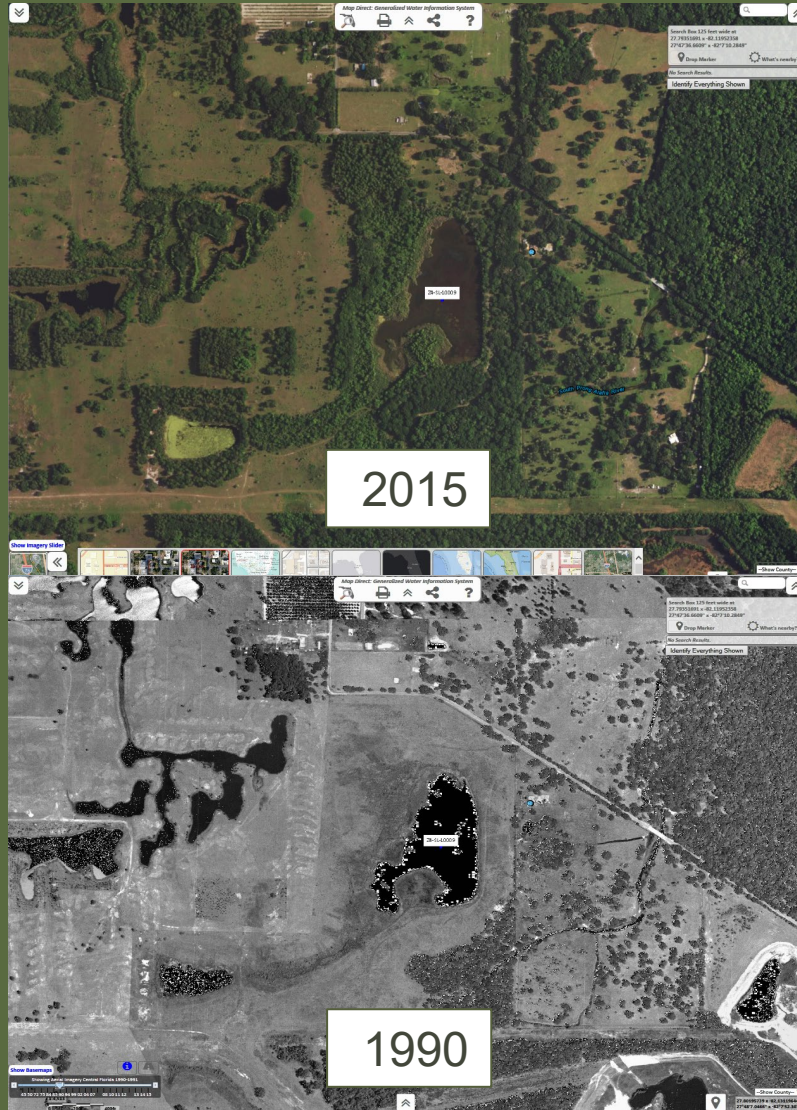
## NATURAL OR MAN MADE







# EXAMPLE REVIEW AERIAL IMAGERY

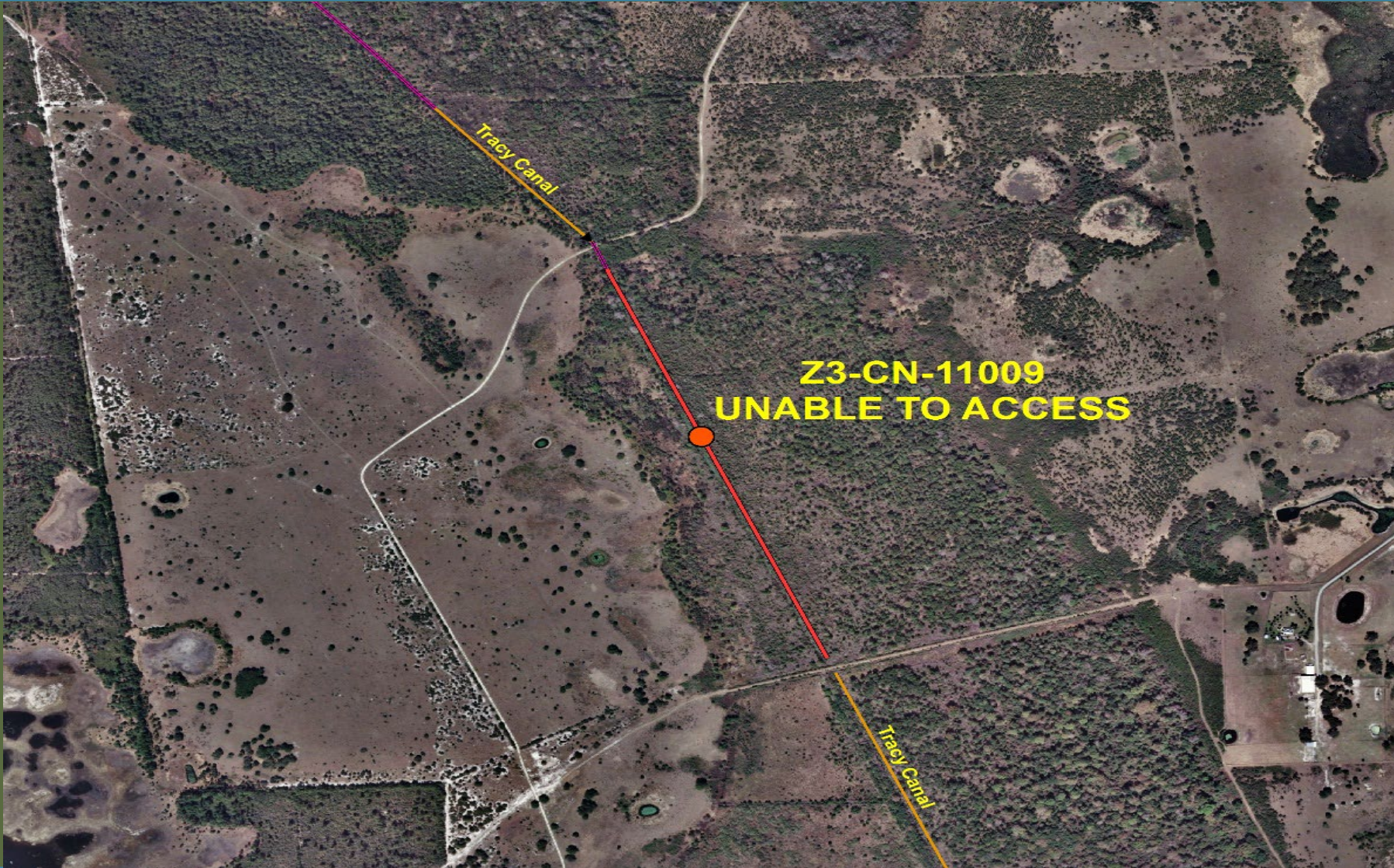






# EXAMPLE

## UNABLE TO ACCESS







# EXAMPLE

## UNABLE TO ACCESS







# EXAMPLE

## OTHERWISE UNSAMPLEABLE

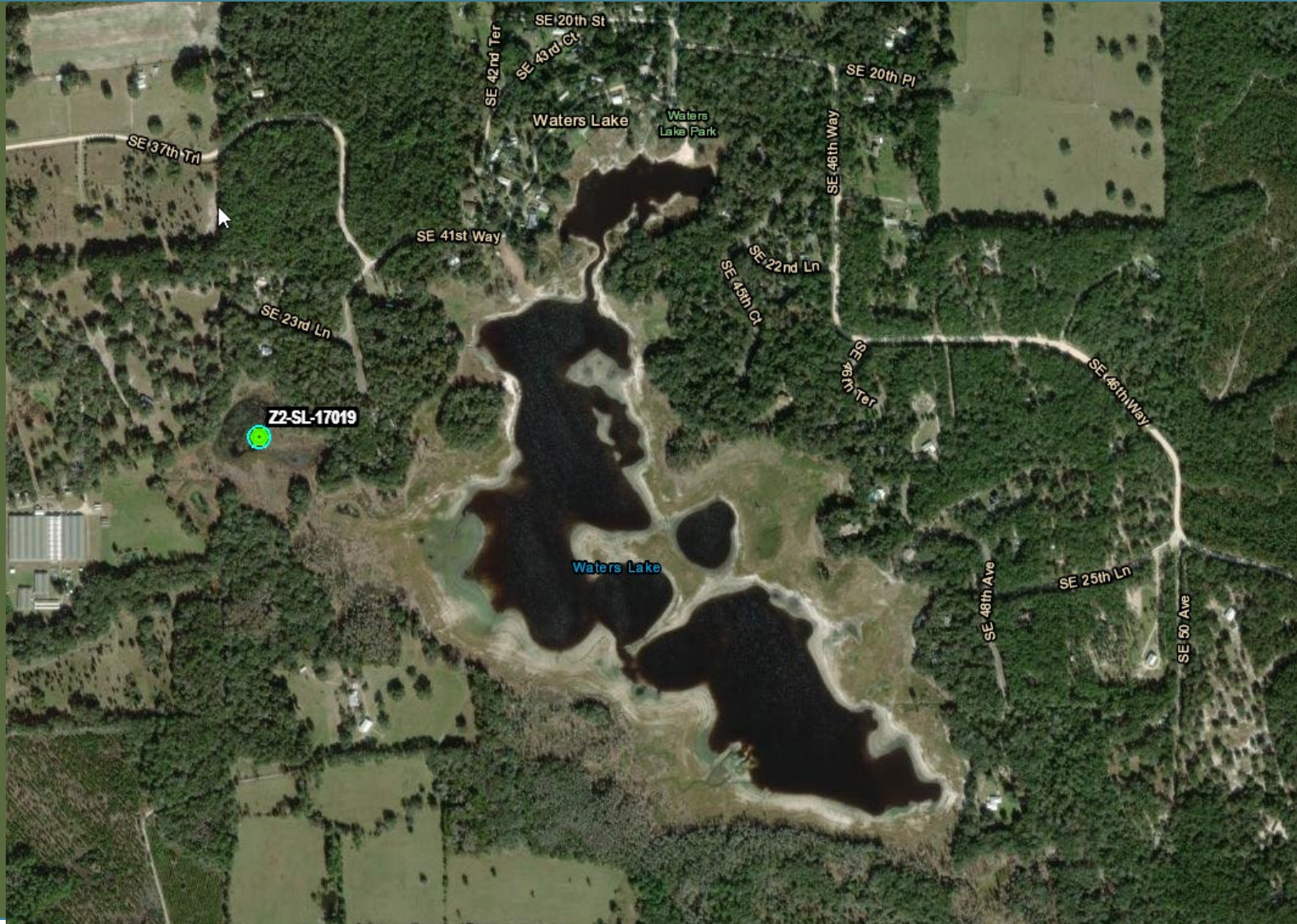


Photo source: Solent News.





# EXAMPLE UNSURE

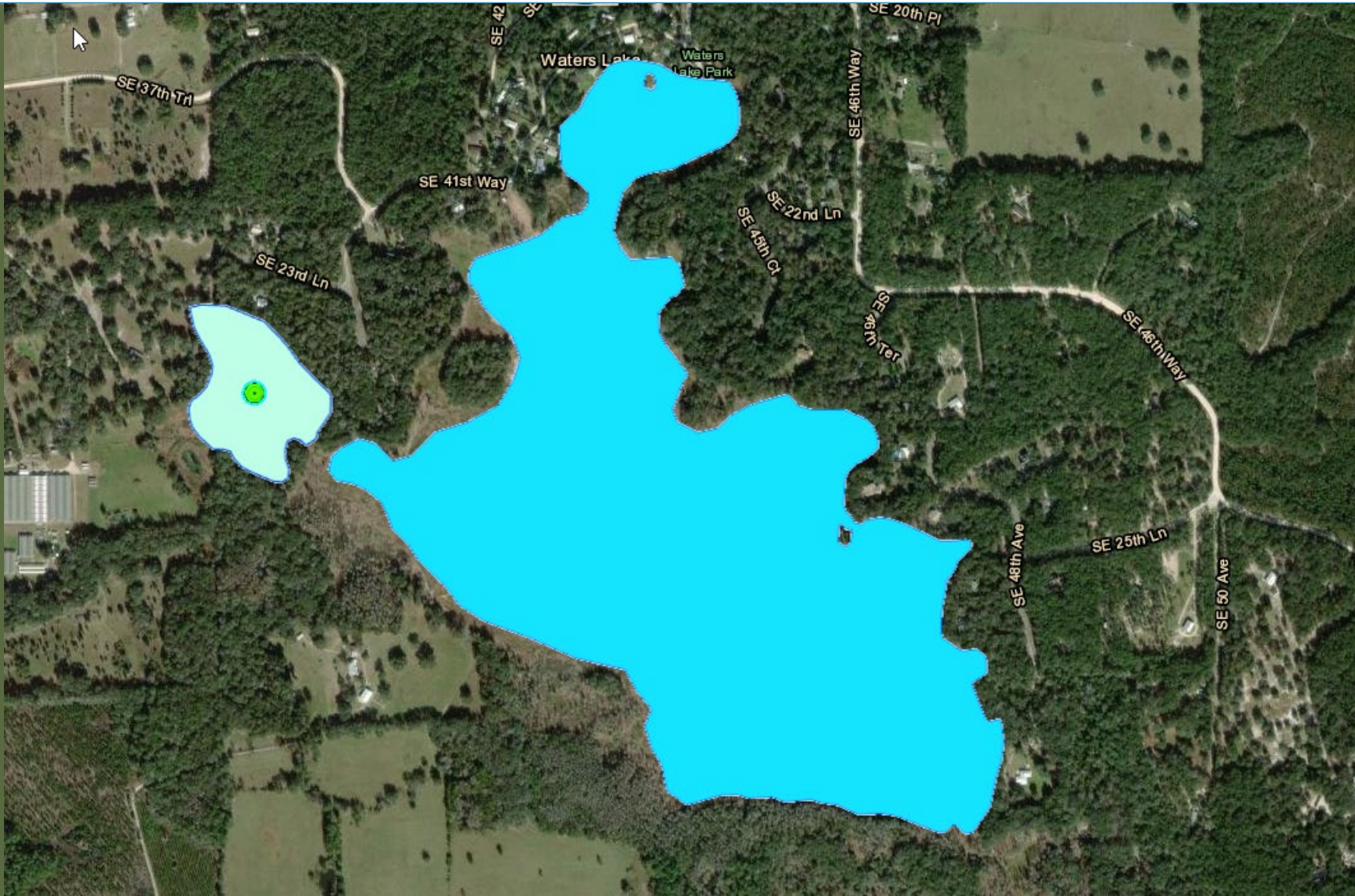






# EXAMPLE

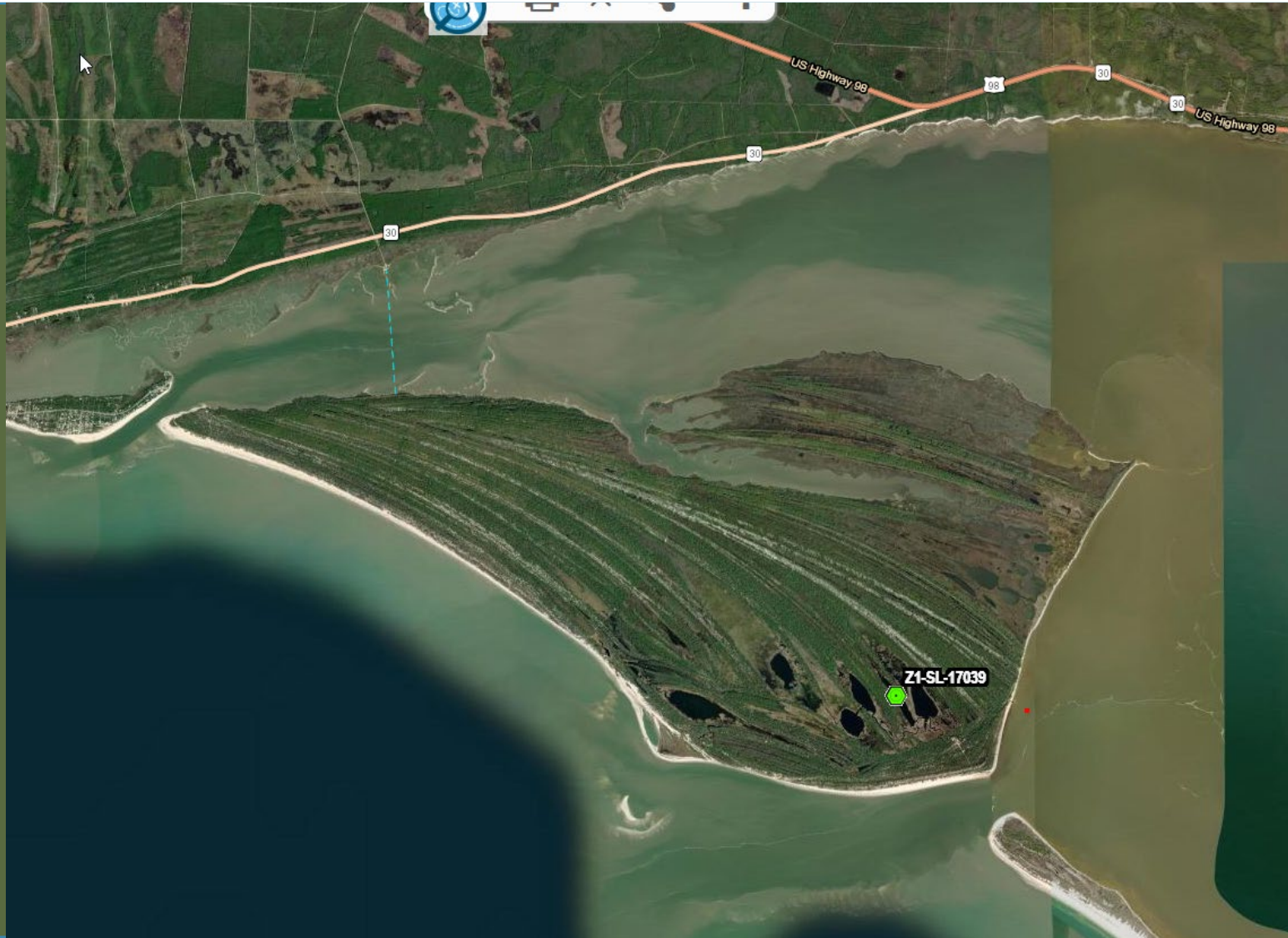
## UNSURE







# EXAMPLE UNSURE





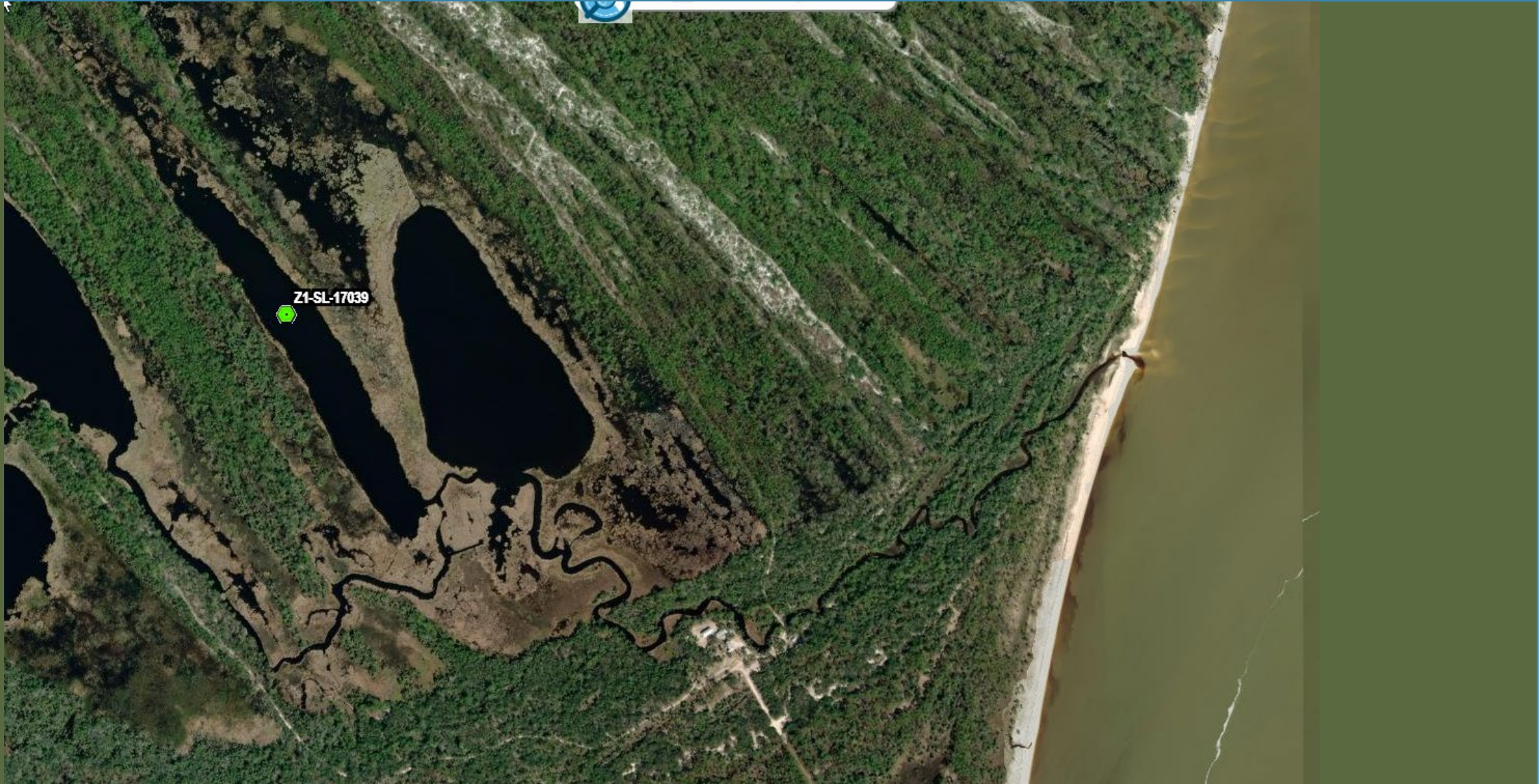
# EXAMPLE UNSURE







# EXAMPLE UNSURE







# MINIMUM STATION DATA REQUIRED FOR A WELL

If data are unavailable or the well lacks these minimum requirements, exclude as Otherwise Unsampleable/Required Physical or Geological Information Not Available.

- Station name.
- County.
- Agency.
- Waterbody name.
- Water resource.
- Latitude.
- Longitude.
- Location method.
- Locational datum.
- Casing diameter.
- Casing material.
- Casing depth.
- Total depth.
- All contact information.





# DOCUMENTATION

Status Network Reconnaissance





# RECON DOCUMENTATION

## ENTER RECON INFO INTO GWIS DATABASE UTILITIES

- Ability to sample.
  - “CAN BE SAMPLED”, yes or no.
- If excluded.
  - Select Exclusion Category and Criteria.
  - Add Detailed Comments.
    - Include initials and date.
    - Indicate how decision was made.
      - Office or field recon.
    - Reason why a resource is excluded.



# RECON DOCUMENTATION

## ADDITIONAL REMINDERS

- Keep notes on access, ownership and sampleability.
- Submit recon documentation to project manager two weeks before the primary sampling period begins.
- Remember to add required comments for exclusions to provide feedback to project manager and GIS analyst.
- Contact your project manager with any questions or concerns.



# RECON DOCUMENTATION

⏪

Home

Recon Tracking

Existing Station

New SW Station

New GW Station

Site Recon Information

PK RANDOM SAMPLE

LOCATION: Z6-CN-16005

Station ID: NA

Waterbody Name:

County: HENDRY

WMD: SOUTH FLORIDA WMD

Random Latitude: 26° 26' 3.40145"

Random Longitude: 80° 56' 48.7"

Is Z6-CN-16005 sampleable?: Yes ☐ No ☐ NA ☒ (To change Exclusion Category or Exclusion Criteria, p

Exclusion Category: OTHERWISE UNSAMPLEABLE ▾

Exclusion Criteria: UNSAFE SAMPLING CONDITIONS

Was Z6-CN-16005 sampled?:

Comments: S Fischer (11/23/2021) Unable to get equipment to random sample location due to water control structure nearby (unsafe to navigate waterway) ↵

SaveResetShow Map

Please provide name and recon date in comment.





# RECON DOCUMENTATION

## SAMPLING ORDER

- Primary sites must be evaluated first.
  - Sampled in any order.
  - Surface Water 1 – 15.
  - Groundwater 1 – 20.
- Alternate sites must be evaluated in consecutive order.
  - Sampled in any order, but no gaps in evaluation.
  - Surface Water 16 – 150.
  - Groundwater 16 – 200.





# PUBLIC INTERACTION

Status Network Reconnaissance





# PUBLIC INTERACTIONS

- Bring copies of the Status and Trend brochure with you on field visits.
  - Recon and sampling.
- Be prepared to ask questions when meeting a contact.
  - Keys to access gates.
  - Hazards/concerns.
  - Expected time on/off property.
- Be courteous and get to the point with any questions.
- Be prepared to hear “no.”
- Always thank the contact for allowing access to property.





# THANK YOU

**Lana Kolonay**

Division of Environmental Assessment and Restoration  
Florida Department of Environmental Protection

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