SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

An Overview of SWFWMD's Available Monitoring Data and Maps

Springs Coast Management Committee

Sandie Will, P.G.
Data Collection Bureau Chief

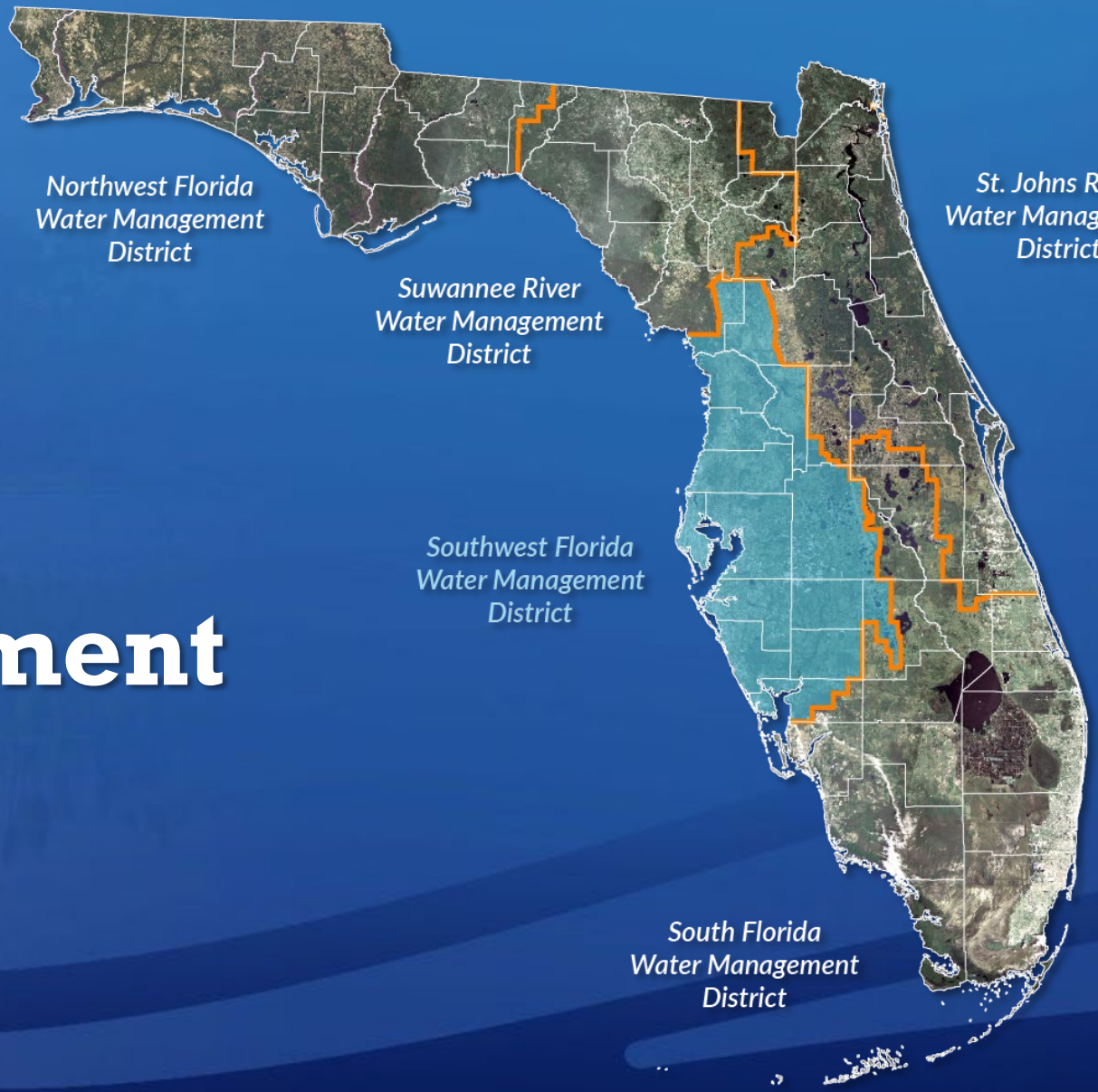
May 22, 2024

Southwest Florida
Water Management District

Presentation Agenda

- Brief overview of the:
  - District
  - Data Collection Bureau
  - Quality checks and data governance processes
  - Available data types
  - Websites used for data and map downloads
  - Contact information

Florida's Water Management Districts



Areas of Responsibility

Water Supply

Water Quality

Natural Systems

Flood Protection

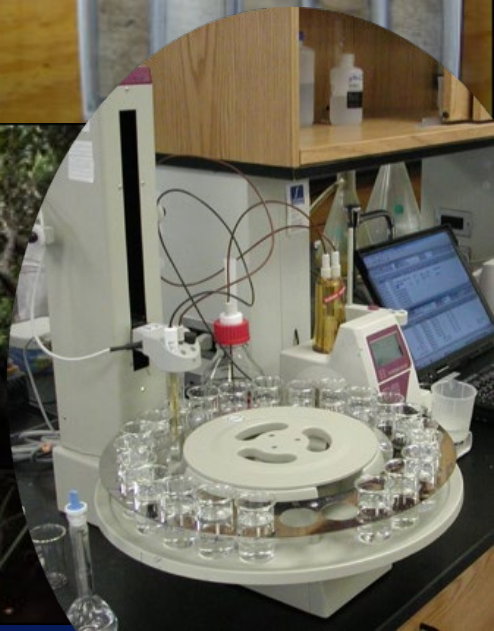
OUR MISSION

- Protect Water Resources
- Minimize Flood Risks
- Ensure the Public's Water Needs Are Met

Southwest Florida
Water Management District

Data Collection Bureau Overview

- Highly technical staff
- Responsible for:
  - Collecting data
  - Analyzing data
  - Storing data
  - Reporting data

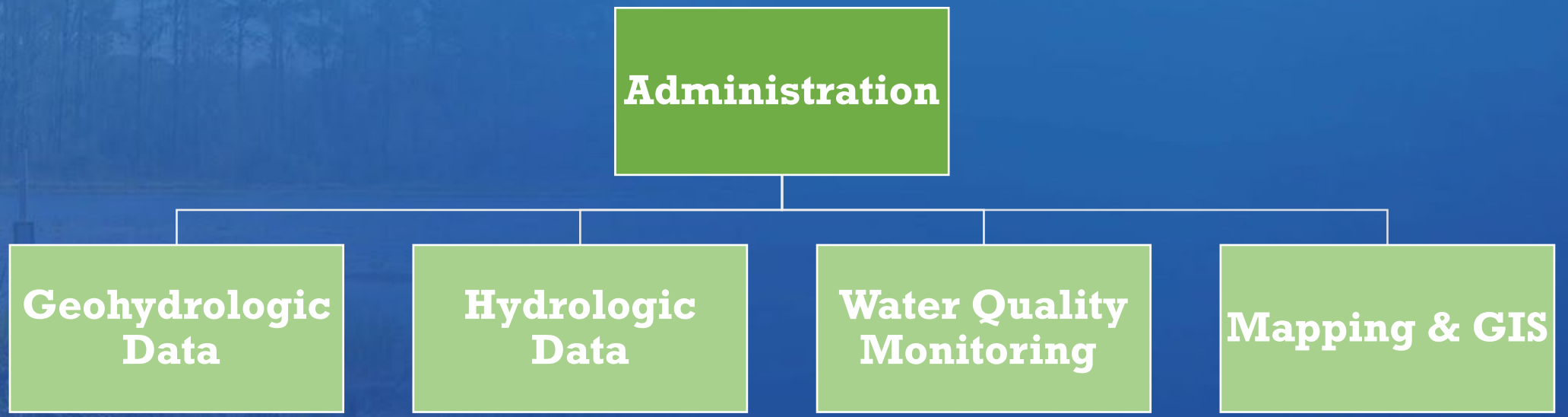


Southwest Florida Water Management District

Internal Checks & Balances

- QA/QC checks
- Audits/peer reviews
  - Laboratory
  - Field staff
  - Lithologic data
- Data Governance
- Water Resources Data Collection Assessment Process

Data Collection Bureau Overview



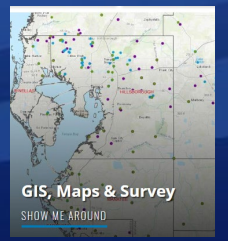
Data Collection Bureau Overview

Administration
Sandie Will, P.G.

- **Geohydrologic Data – Ted Gates, P.G.**
  - Coring
  - Well Construction
  - Aquifer Testing
- **Hydrologic Data – Tamera McBride, P.G.**
  - Water Levels
  - Rainfall
  - Evapotranspiration
- **Water Quality Monitoring – Catherine Wolden**
  - Field Parameters
  - Laboratory Analyses
- **Mapping & GIS – Corey Denninger**
  - GIS Layers/Maps
  - Aerial Imagery
  - Land Surveying

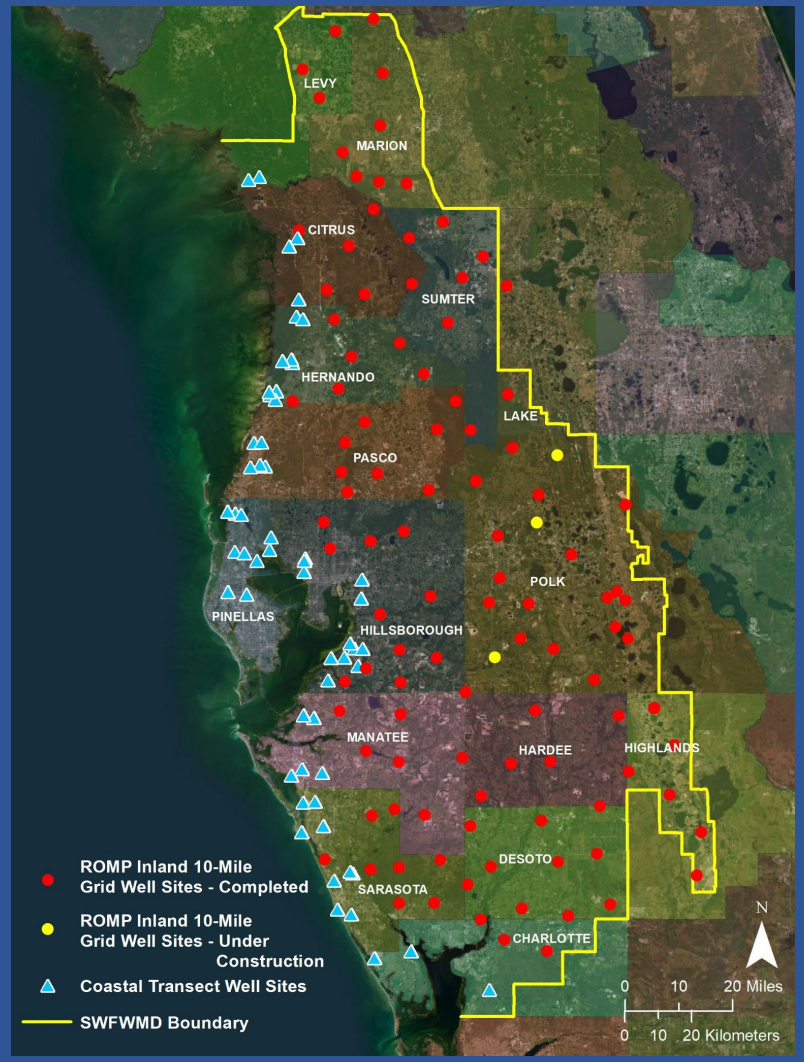
Southwest Florida Water Management District Geohydrologic Data Map Viewer

ENVIRONMENTAL DATA PORTAL



Southwest Florida Water Management District

District Monitor Well Networks

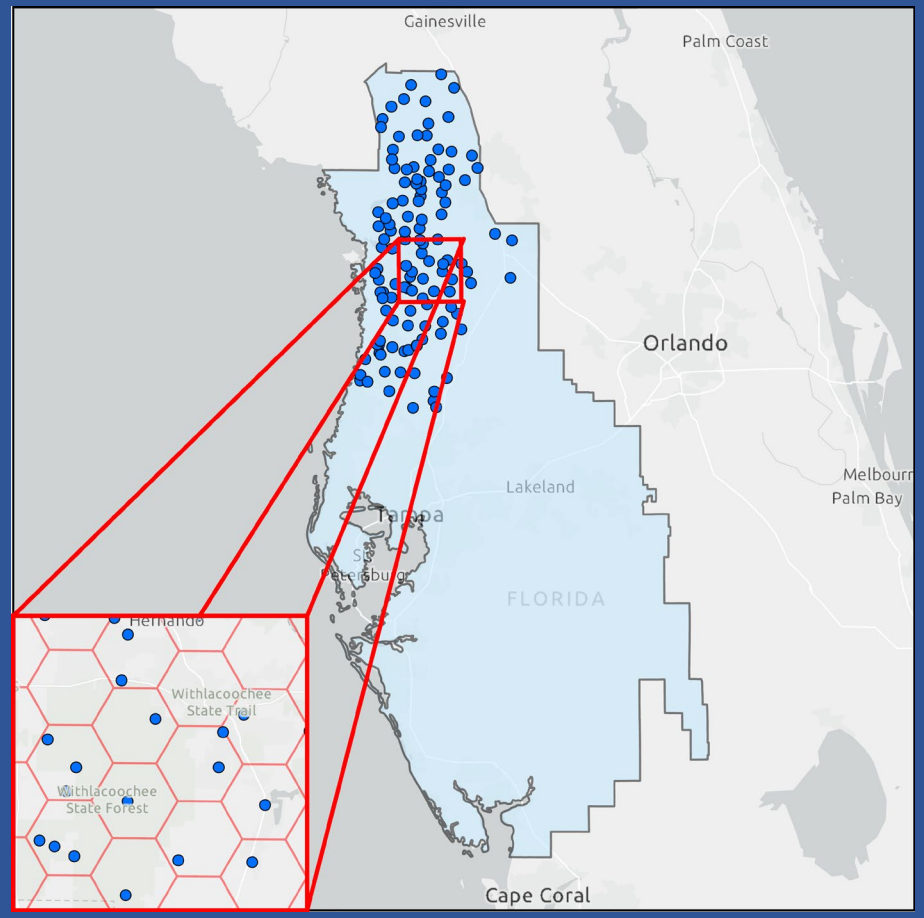


Well Names Include:

- Coastal Transect = TR
- Regional Observation Monitor-well Program = ROMP

Southwest Florida Water Management District

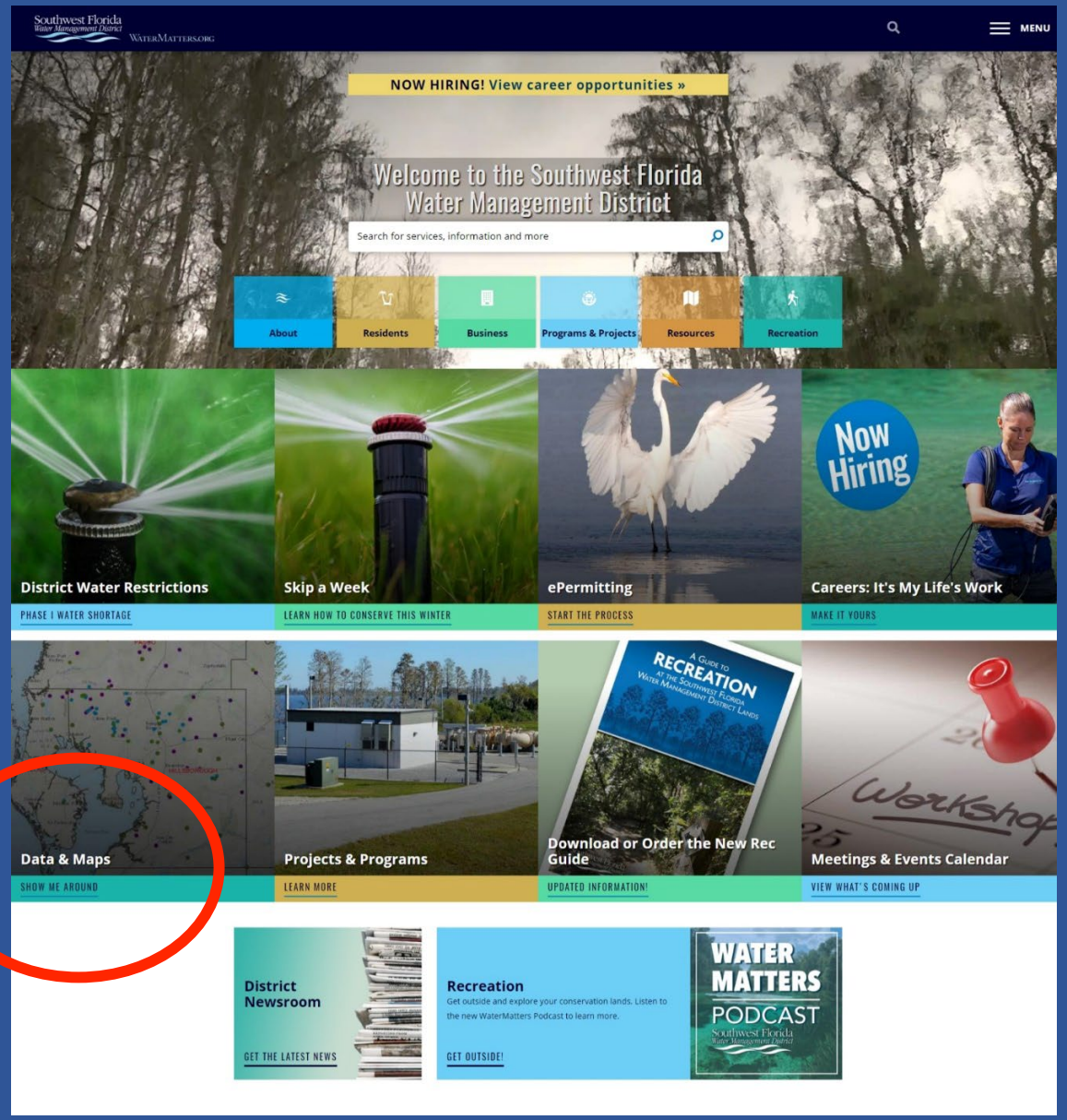
District Monitor Well Networks

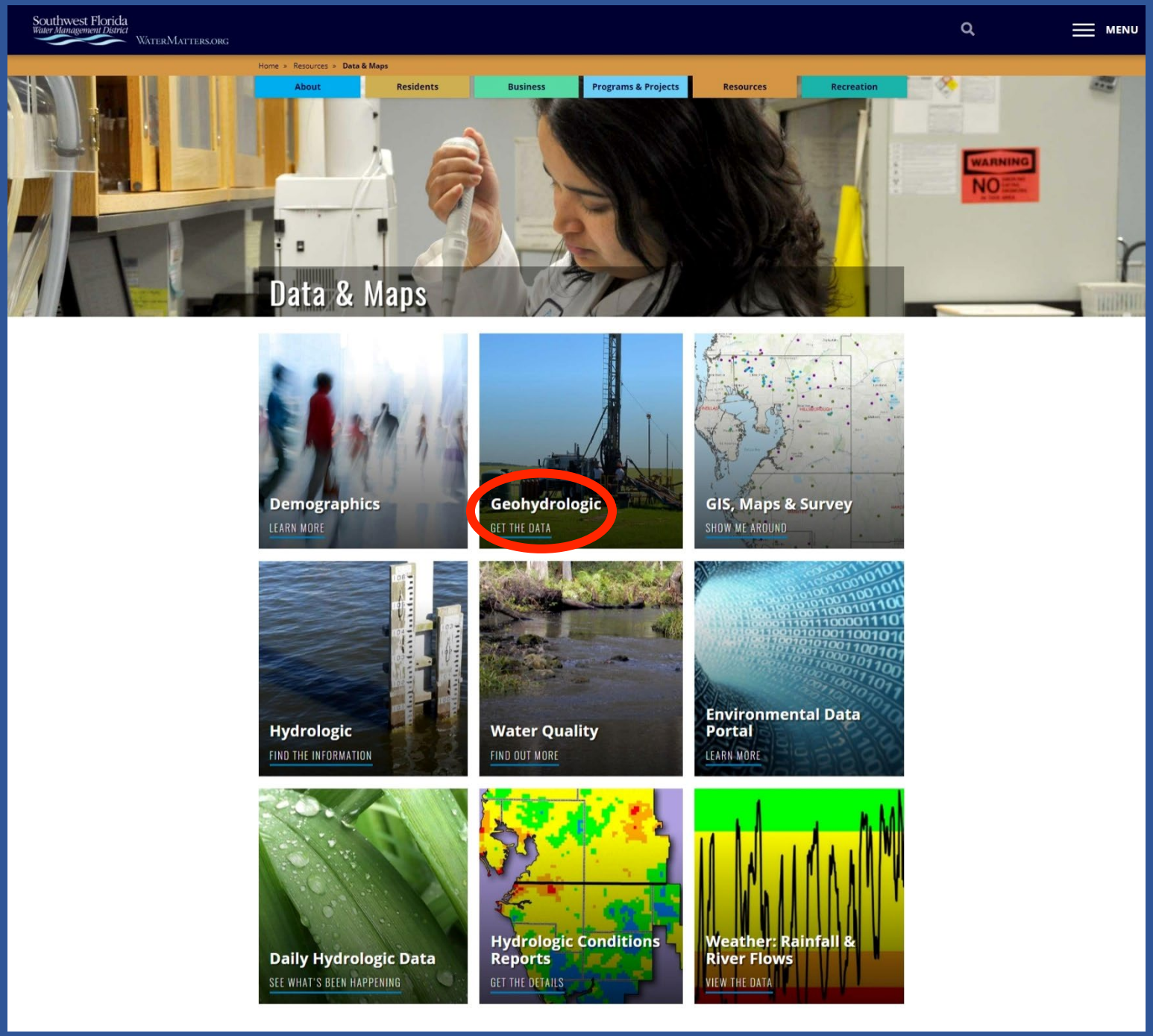


- Upper Floridan Aquifer Nutrient Monitoring Network (UFANMN)
- Network was statistically designed based on a grid system
- Names in database vary
- Includes District and residential wells
- Approximately 15 years of data

Southwest Florida Water Management District

SWFWMD's Main Page: watermatters.org

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consequential, or other damages, including loss of profit, arising out of the use or inability to use these data even if the District has been advised of the possibility of such damages.

Reports

The District issues reports after monitor well construction and aquifer testing. The reports are accessible from 1974 to present. New reports are added as they become available.

Recent Reports

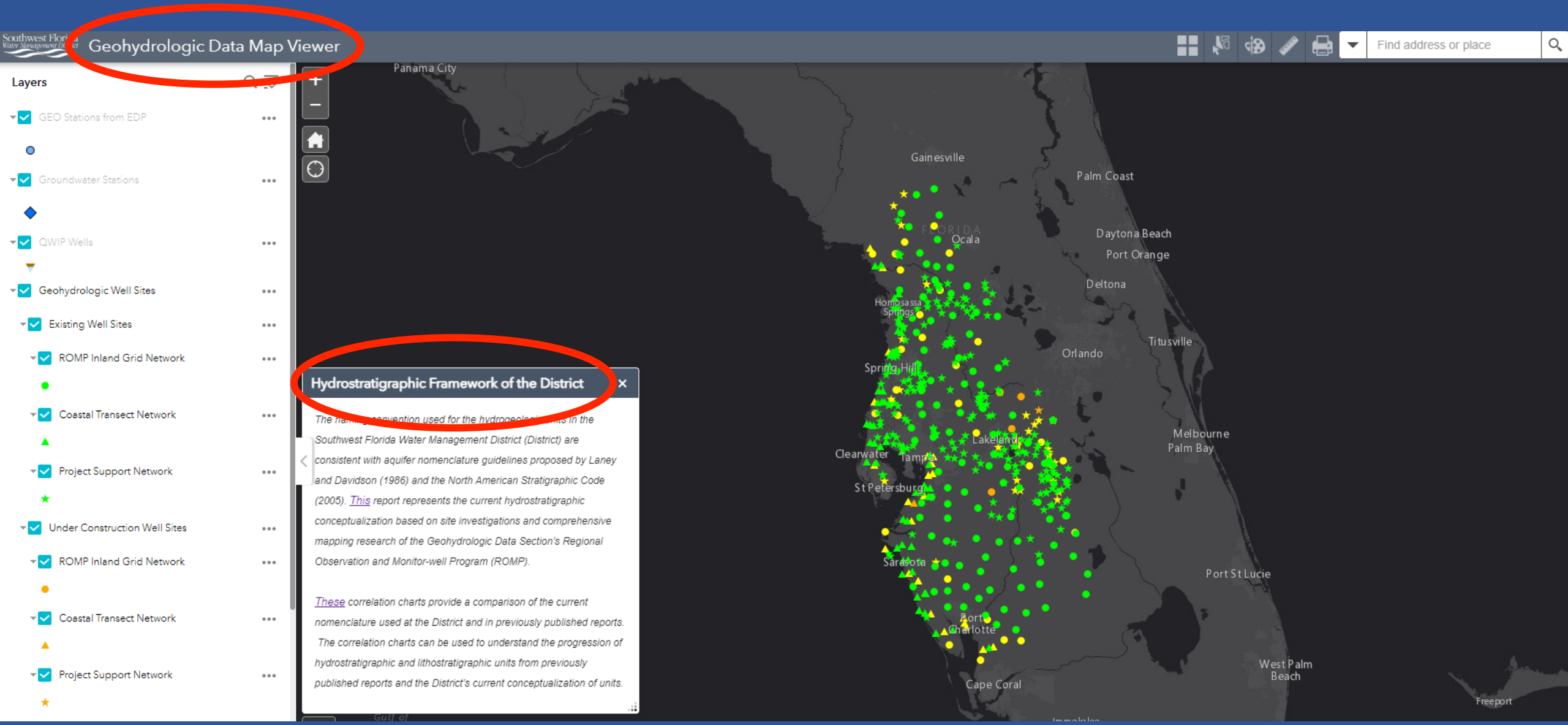
- Well Construction at the Lake Aurora Well Site in Polk County, Florida
- Well Construction at the Trout Lake Well Site in Polk County, Florida
- Hydrogeology, Water Quality, and Well Construction at the ROMP 38 – Parrish Well Site in Manatee County, Florida
- Well Construction and Water Quality at the ROMP TR 19-3A – Heather Well Site in Hernando County, Florida

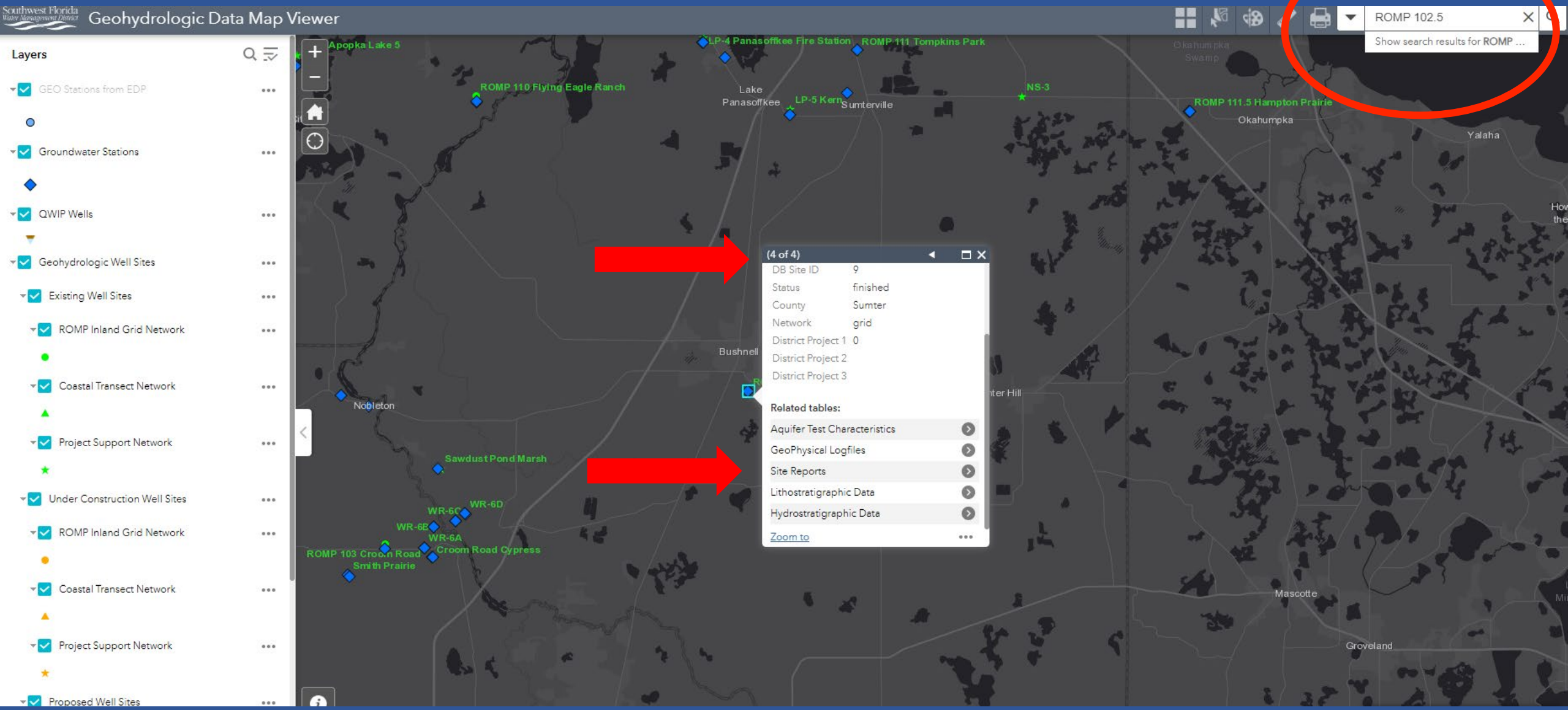
Geohydrologic Data Interactive Map »

View an interactive map of all Geohydrologic Data well sites, links to associated well site reports, lithologic core descriptions, geophysical logs, lithostratigraphic units, hydrostratigraphic units, and aquifer test characteristics for select well sites.

Stratigraphic Correlation Charts »

The naming convention used for the hydrogeologic units in the Southwest Florida Water Management District (District) are consistent with aquifer nomenclature guidelines proposed by Laney and Davidson (1986) and the North American Stratigraphic Code (2005). These correlation charts provide a comparison of the current nomenclature used at the District and in previously published reports. The correlation charts can be used to understand the progression of hydrostratigraphic and


Southwest Florida Water Management District
Geohydrologic Data Map Viewer
Find address or place
Layers
GEO Stations from EDP
Groundwater Stations
QWIP Wells
Geohydrologic Well Sites
Existing Well Sites
ROMP Inland Grid Network
Coastal Transect Network
Project Support Network
Under Construction Well Sites
ROMP Inland Grid Network
Coastal Transect Network
Project Support Network
Hydrostratigraphic Framework of the District
The framework convention used for the hydrogeologic units in the Southwest Florida Water Management District (District) are consistent with aquifer nomenclature guidelines proposed by Laney and Davidson (1986) and the North American Stratigraphic Code (2005). This report represents the current hydrostratigraphic conceptualization based on site investigations and comprehensive mapping research of the Geohydrologic Data Section's Regional Observation and Monitor-well Program (ROMP).
These correlation charts provide a comparison of the current nomenclature used at the District and in previously published reports. The correlation charts can be used to understand the progression of hydrostratigraphic and lithostratigraphic units from previously published reports and the District's current conceptualization of units.
Panama City
Gainesville
Palm Coast
FLORIDA
Ocala
Daytona Beach
Port Orange
Deltona
Homosassa Springs
Titusville
Orlando
Spring Hill
Melbourne
Palm Bay
Lakeland
Clearwater
Tampa
St Petersburg
Sarasota
Port St Lucie
Port Charlotte
West Palm Beach
Cape Coral
Freeport


Southwest Florida Water Management District
Geohydrologic Data Map Viewer
ROMP 102.5
Show search results for ROMP ...
Layers
GEO Stations from EDP
Groundwater Stations
QWIP Wells
Geohydrologic Well Sites
Existing Well Sites
ROMP Inland Grid Network
Coastal Transect Network
Project Support Network
Under Construction Well Sites
ROMP Inland Grid Network
Coastal Transect Network
Project Support Network
Proposed Well Sites
Apopka Lake 5
LP-4 Panasoffkee Fire Station
ROMP 111 Tompkins Park
ROMP 110 Flying Eagle Ranch
Lake Panasoffkee
LP-5 Kern
Sumterville
NS-3
ROMP 111.5 Hampton Prairie
Okahumpka
Okahumpka Swamp
Yalaha
Bushnell
Nobleton
Sawdust Pond Marsh
WR-6C
WR-6D
WR-6E
WR-6A
ROMP 103 Croom Road
Croom Road Cypress
Smith Prairie
Mascotte
Groveland
(4 of 4)
DB Site ID 9
Status finished
County Sumter
Network grid
District Project 1 0
District Project 2
District Project 3
Related tables:
Aquifer Test Characteristics
GeoPhysical Logfiles
Site Reports
Lithostratigraphic Data
Hydrostratigraphic Data
Zoom to

Data Collection Bureau Overview

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  - Well Construction
  - Aquifer Testing
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  - Water Levels
  - Rainfall
  - Evapotranspiration
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  - Land Surveying

Southwest Florida Water Management District Geohydrologic Data Map Viewer

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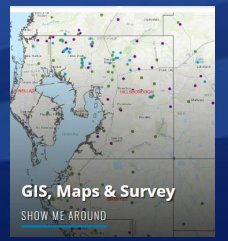
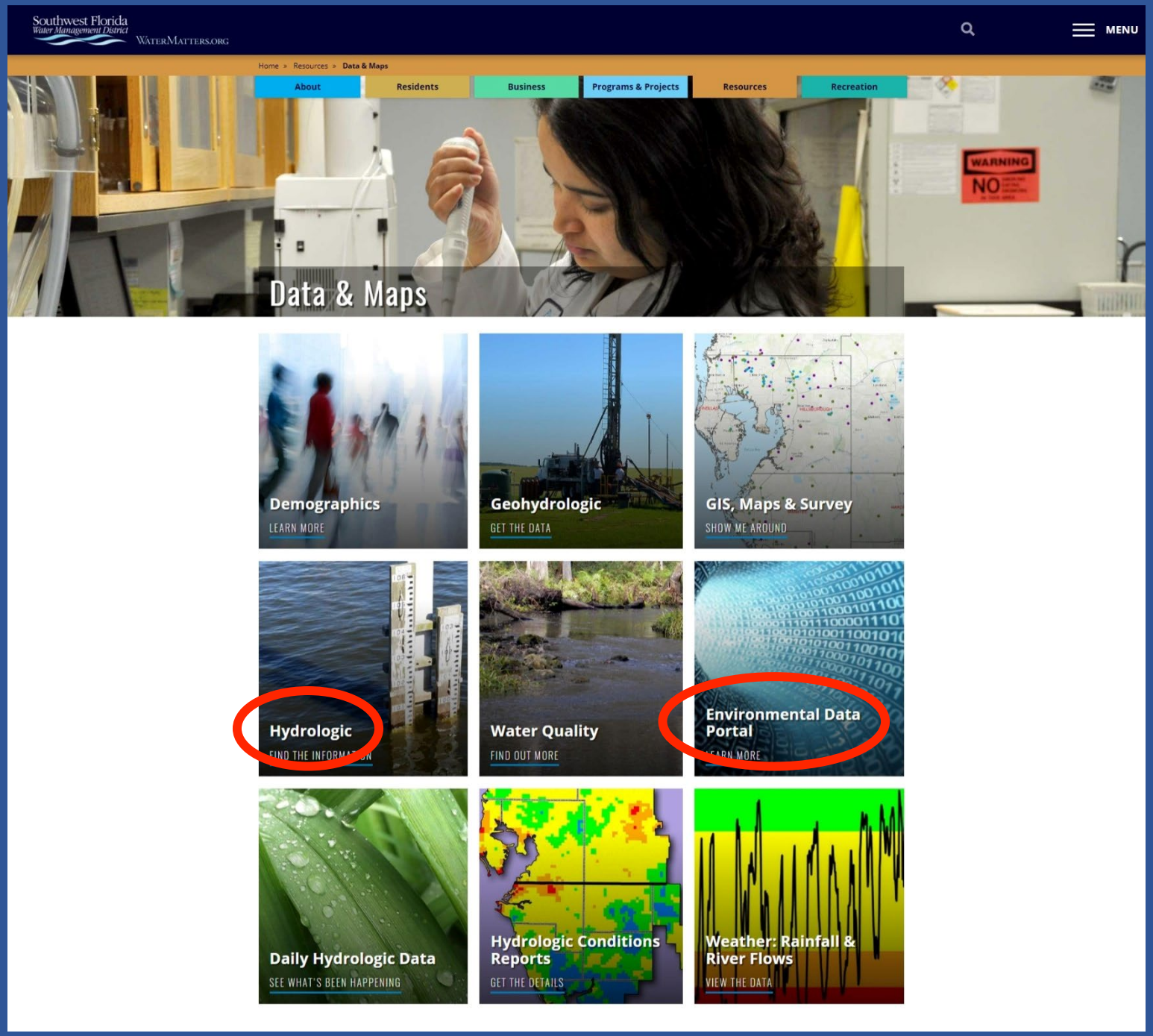


Southwest Florida Water Management District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Southwest Florida Water Management District

Environmental Data Portal | Water Data Viewer (External)

Station Overview | Advanced Search | User Instructions | District Data | Contact Us

Station Overview

Map | Table

Export | Search

Filter

1,957 / 11,011 Stations

Clear filter

Resource Type

Groundwater (1,

Station Type

Well (1,957)

Station Status

Active (1,957)

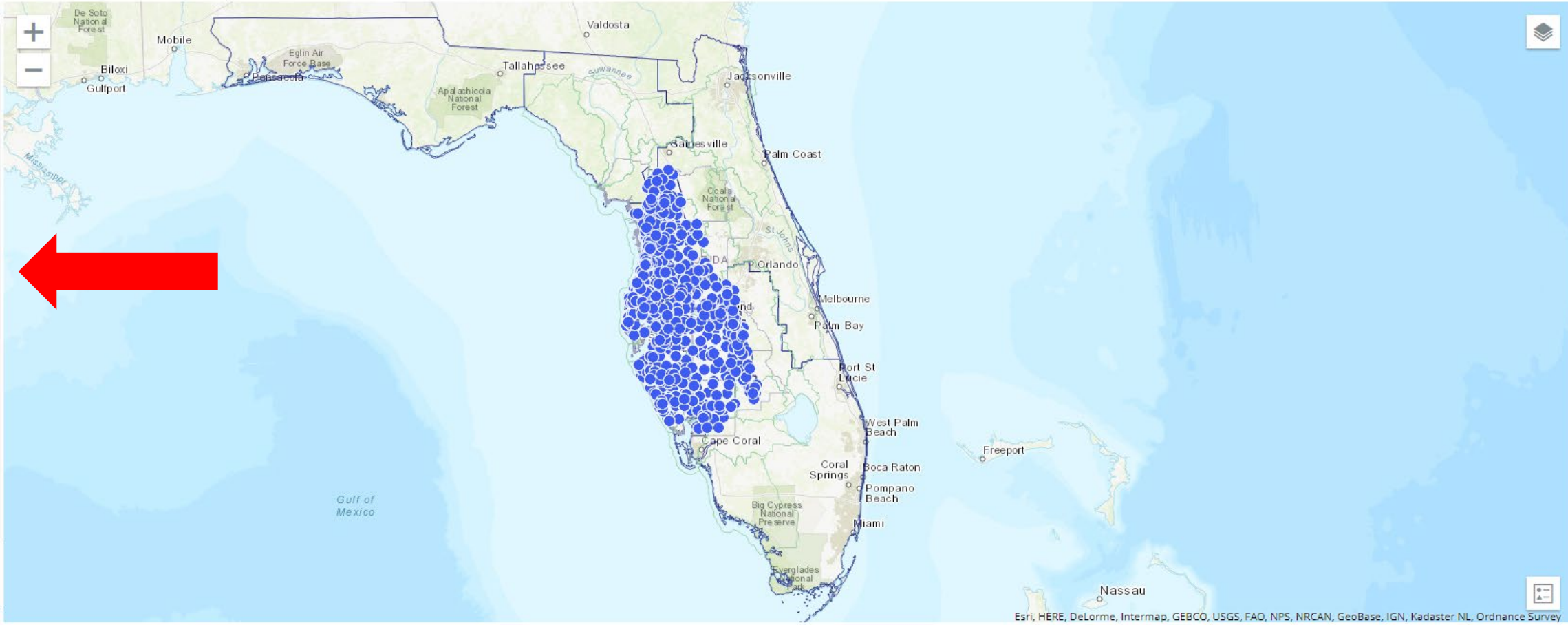
Primary Hydrostratigraphy

All

Project Number

All

Station Parameter Name



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Filter

1,957 / 11,011 Stations

Clear filter

Resource Type: Groundwater (1,

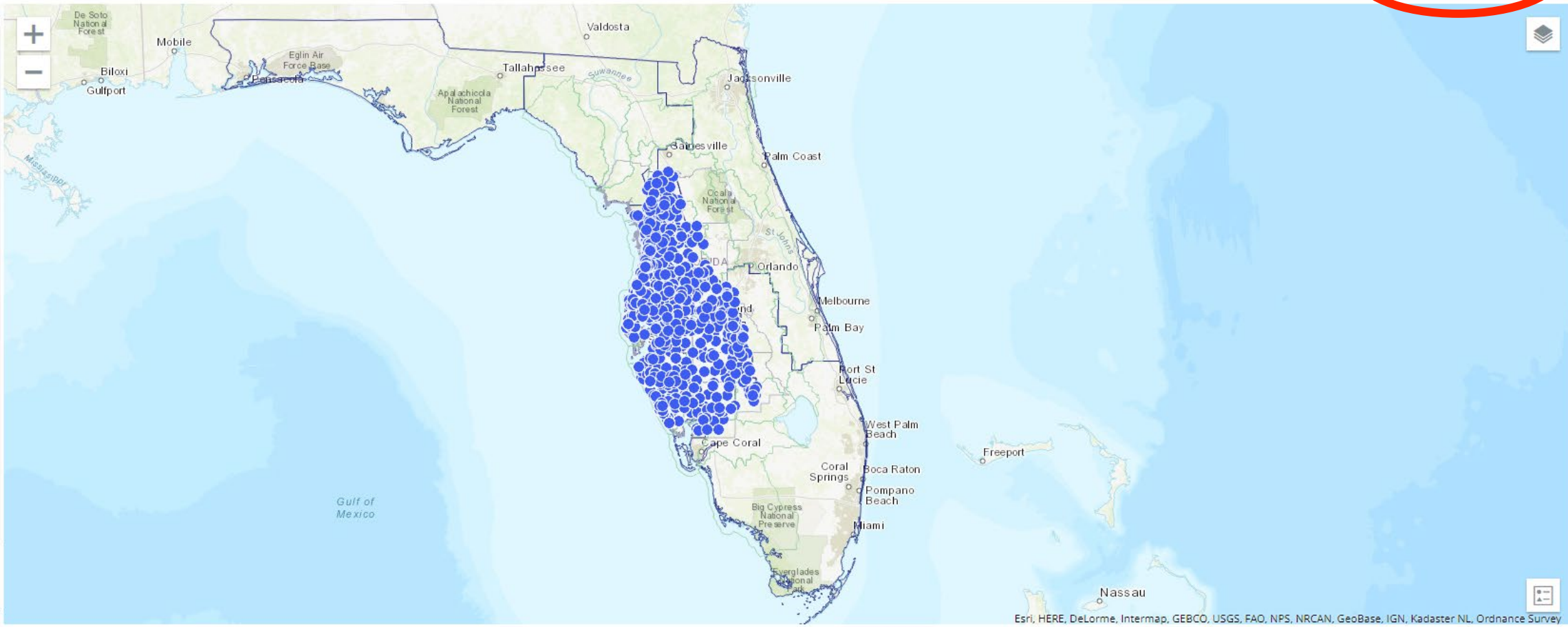
Station Type: Well (1,957)

Station Status: Active (1,957)

Primary Hydrostratigraphy: All

Project Number: All

Station Parameter Name



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1,957 / 11,011 Stations

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Resource Type
Groundwater (1,

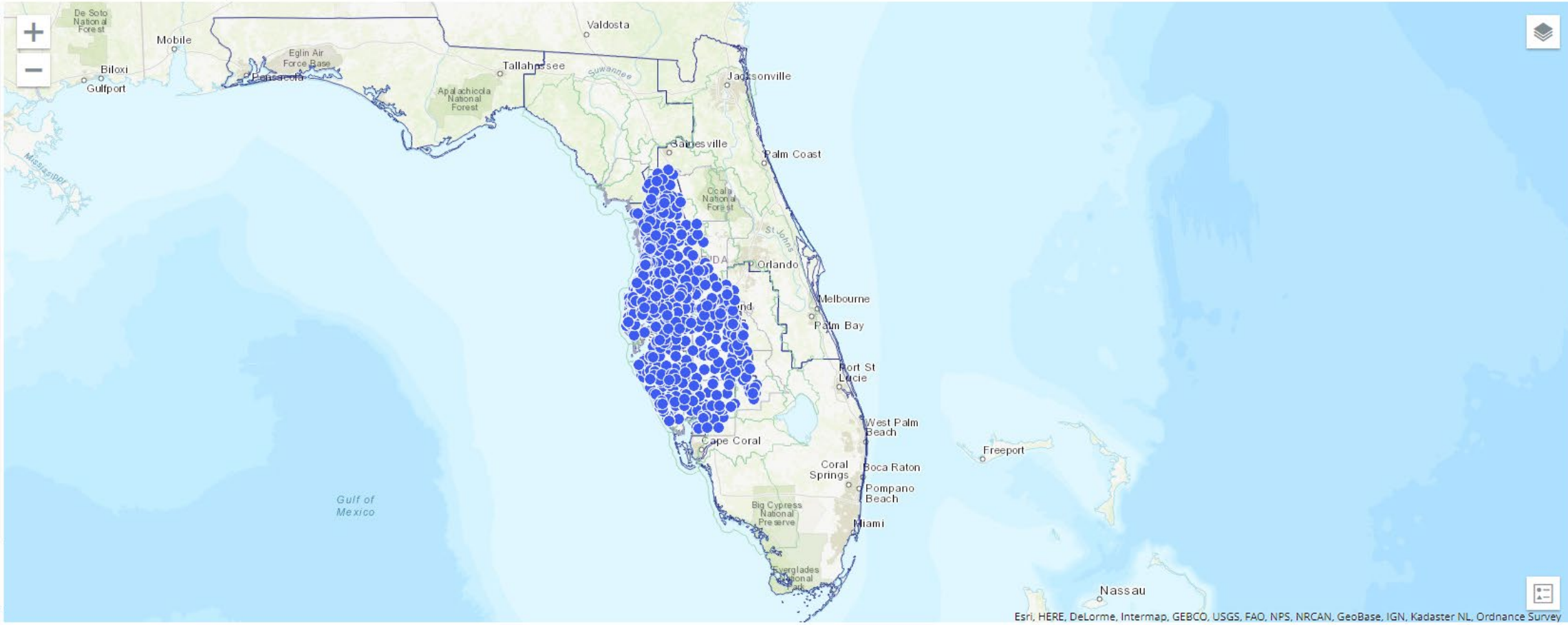
Station Type
Well (1,957)

Station Status
Active (1,957)

Primary Hydrostratigraphy
All

Project Number
All

Station Parameter Name



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Map | Table

Export | ROMP 102.5

Filter

11,011 / 11,011 Stations

Clear filter

Resource Type: All

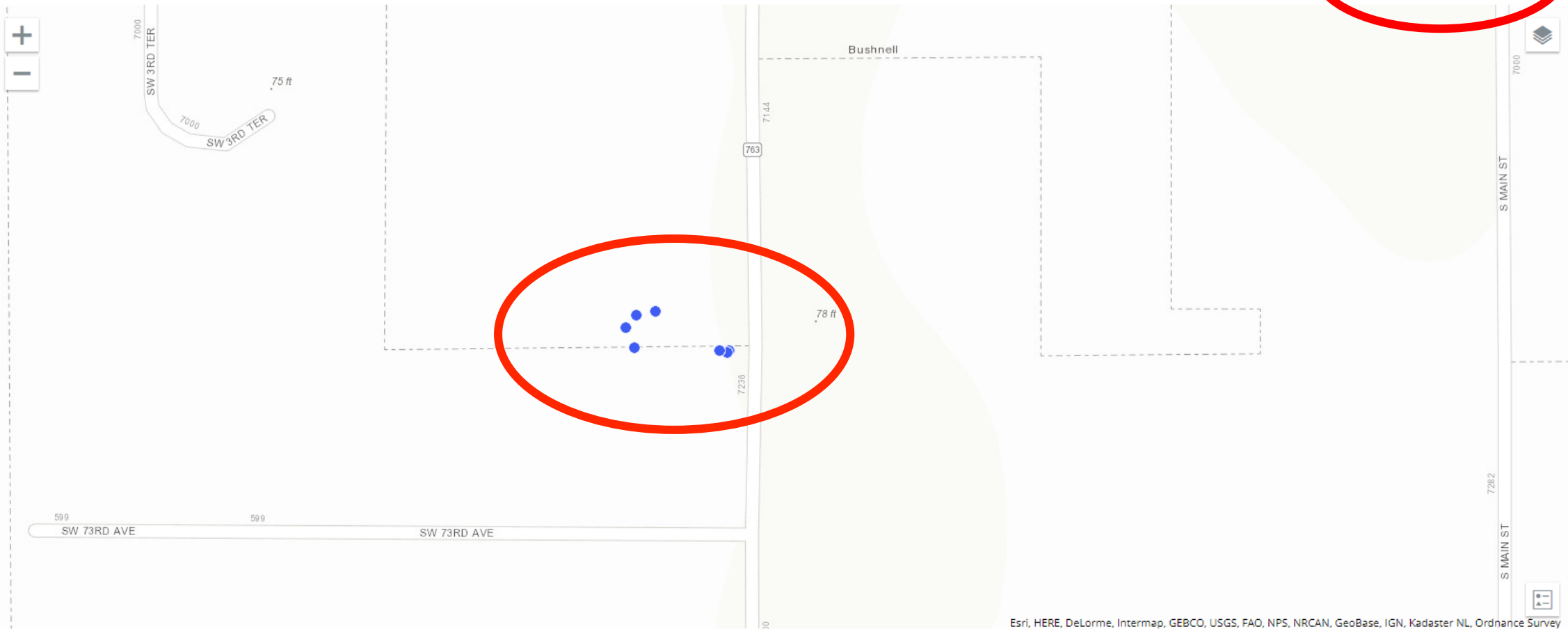
Station Type: All

Station Status: All

Primary Hydrostratigraphy: All

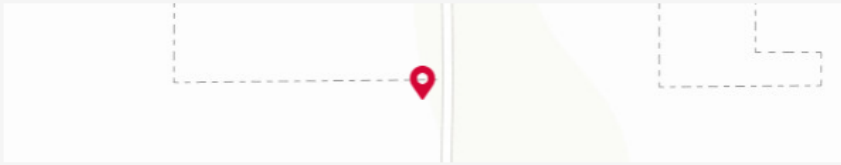
Project Number: All

Station Parameter Name



ROMP 102.5 U Fldn Aq Monitor

Station Number:	738457	Latitude:	28.65031	WCP#:	806610
Resource Type:	Groundwater	Longitude:	-82.10869	WUP#:	0
Station Type:	Well	USGS ID:	283901082063102		



Hydrology | Water Quality

Selection | Graph

Search

Multiple Timeseries

Water elevation

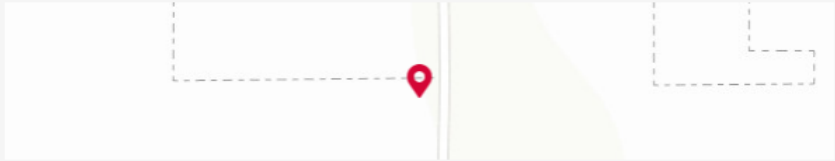
	Station Parameter Name	Time Series Name	Unit Name	From	To
☑	WL	District Daily Maximum NAVD 88	foot	08/08/2011 12:00:00 AM	01/29/2024 12:00:00 AM
☐	WL	District Daily Maximum NGVD 29	foot	08/08/2011 12:00:00 AM	01/29/2024 12:00:00 AM

All time stamps in time zone: ES

Environmental Data Portal | Water Data Viewer (External)

ROMP 102.5 U Fldn Aq Monitor

Station Number:	738457	Latitude:	28.65031	WCP#:	806610
Resource Type:	Groundwater	Longitude:	-82.10869	WUP#:	0
Station Type:	Well	USGS ID:	283901082063102		



Hydrology | Water Quality

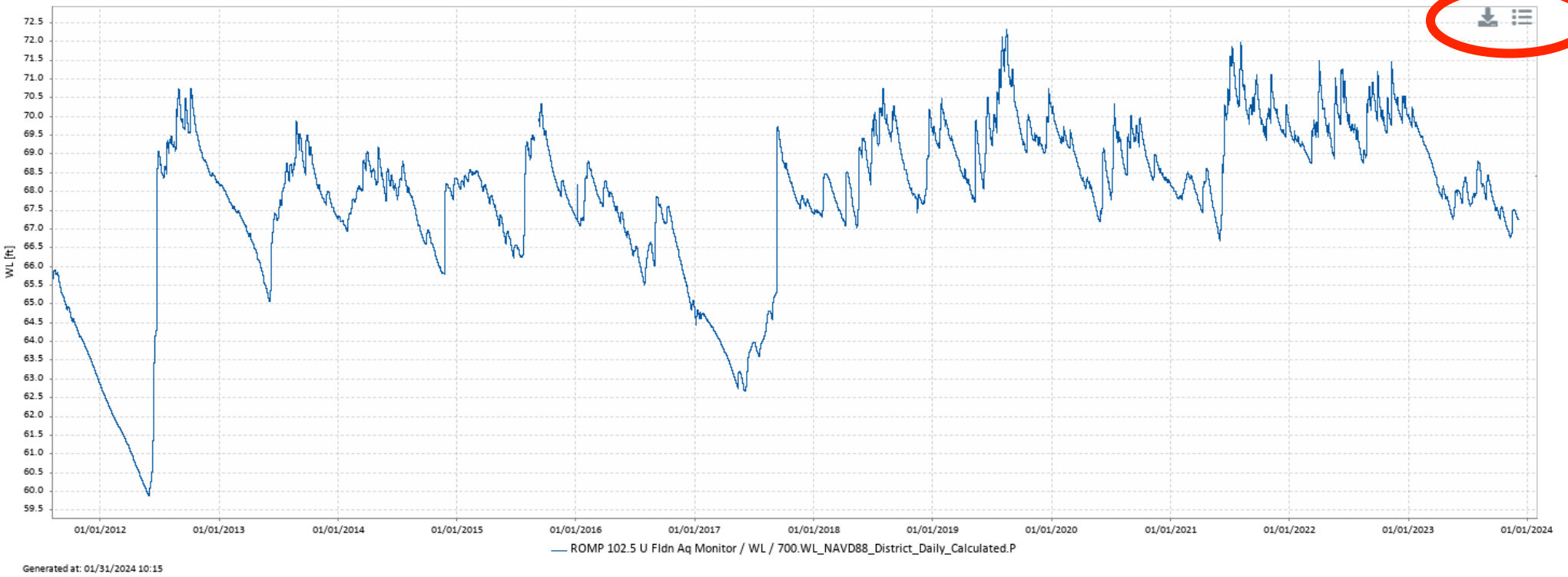
Selection | Graph

Multiple Timeseries

Water elevation

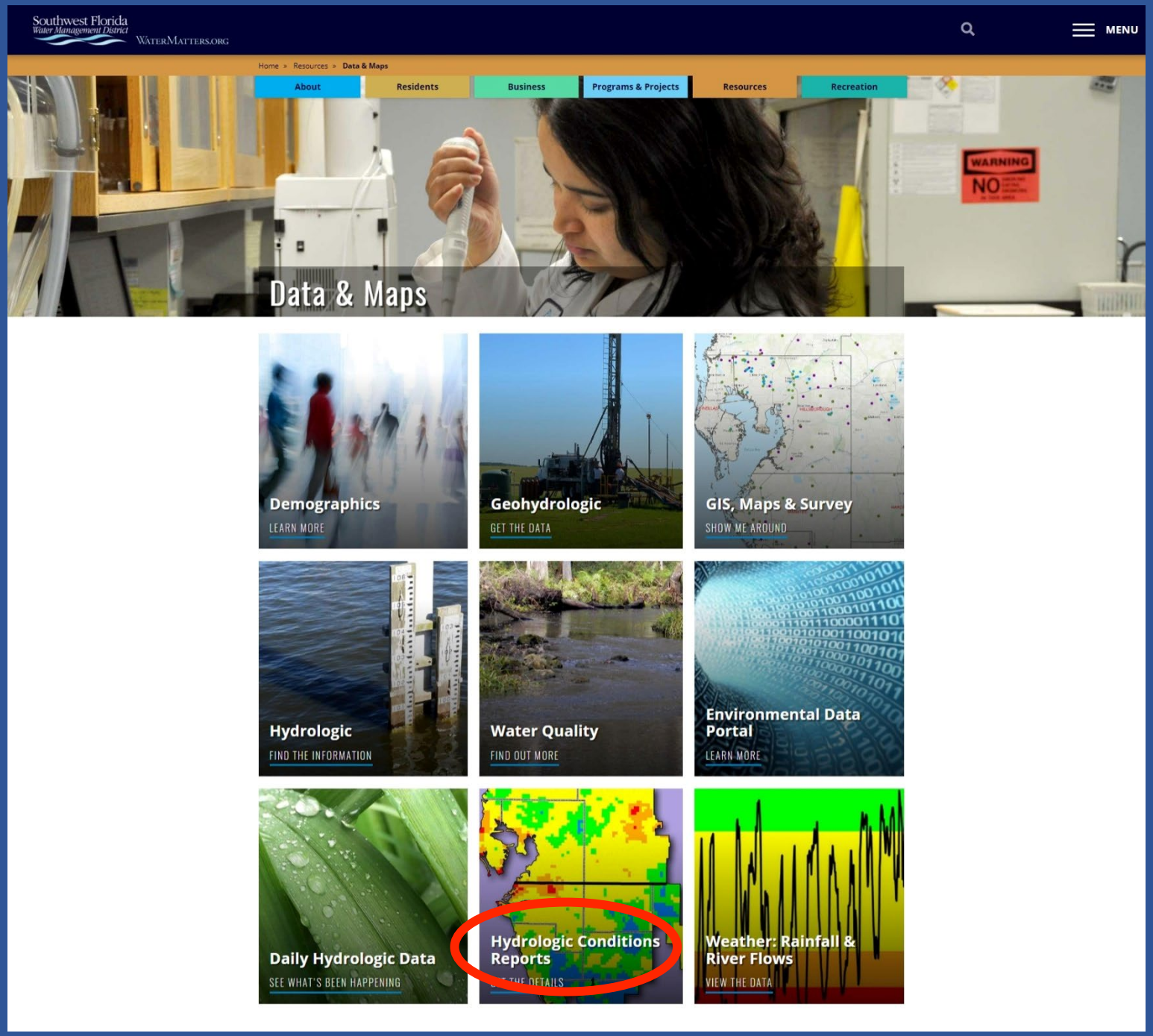
3 d | 10 d | 1 m | 3 m | 1 y | --

08/07/2011 — 01/29/2024



Generated at: 01/31/2024 10:15

All time stamps in time zone: ES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Hydrologic Conditions Reports

The Hydrologic Conditions Report provides an excellent historical record for long-term local and regional hydrologic analysis.

The Hydrologic Conditions Report is generated monthly and provides an analytical summary of regional and temporal variations in the hydrologic conditions for planning and regulatory purposes. In addition, it provides an excellent historical record for long-term local and regional hydrologic analysis.

Data collected are used by the regulatory, technical, and analytical sections of the District. Data recently collected and maintained by the section include: station and basin rainfall totals, stream and spring discharge measurements, and surface and ground water levels. Frequency of data collection ranges from hourly to monthly readings. All data collected are processed and analyzed, then uploaded into the Water Management Data Base for general access by the District. The Water Management Data Base is also periodically augmented from the United States Geological Survey's hydrologic data network.

Reports

- December 2023 Hydrologic Conditions Report
- November 2023 Hydrologic Conditions Report
- October 2023 Hydrologic Conditions Report
- September 2023 Hydrologic Conditions Report

Weather & Hydrology »

Weather: Rainfall and River Flow »

Hydrologic Conditions Reports

Hydrologic Data »

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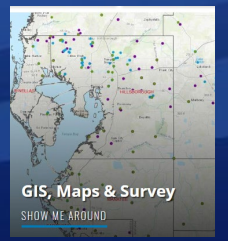

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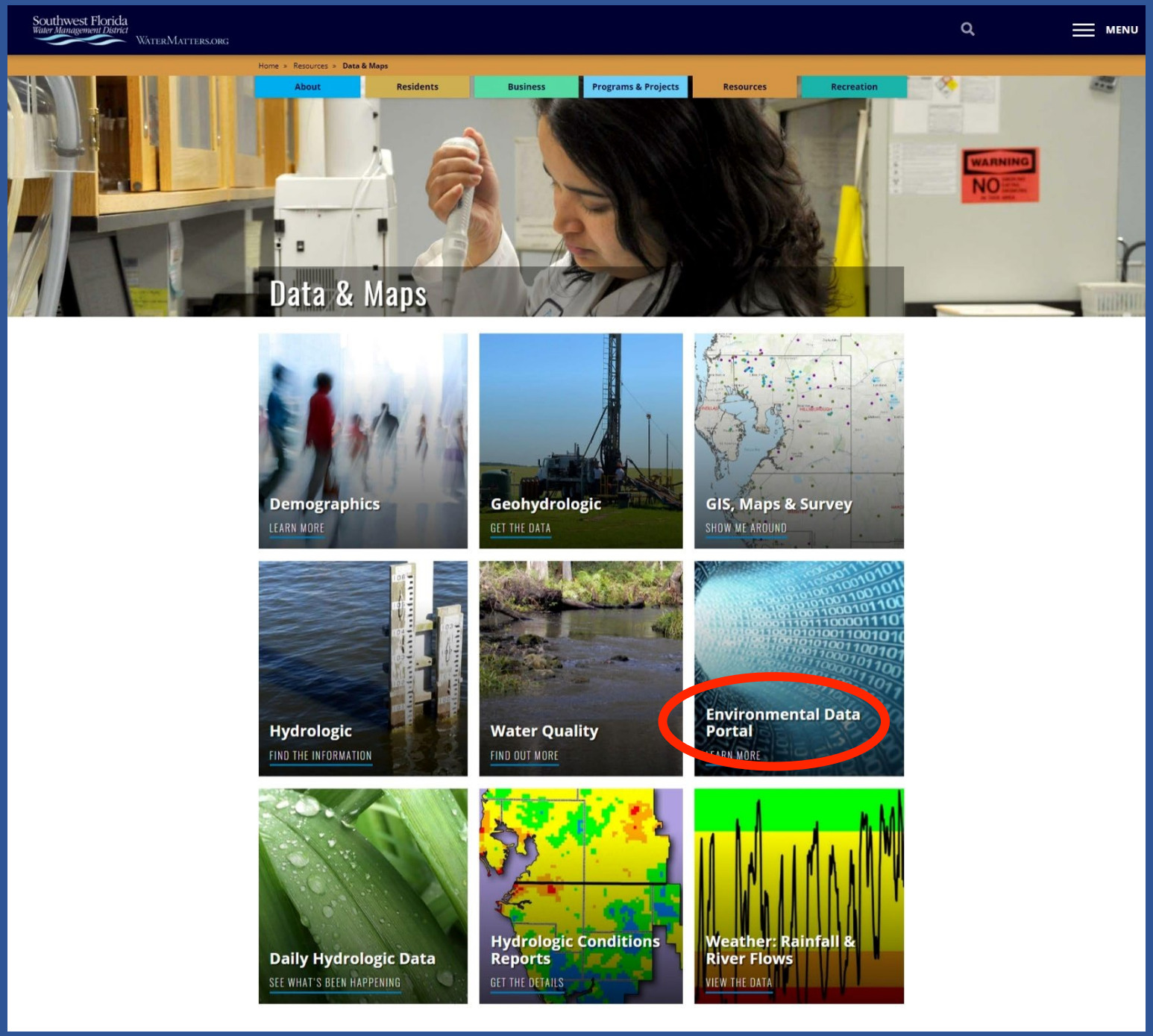
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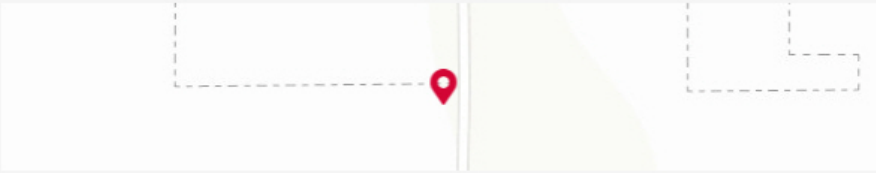
ROMP 102.5 L Fldn Aq (bl MCU I) Monitor

Station Number: 771460
Resource Type: Groundwater
Station Type: Well
Latitude: 28.65031
Longitude: -82.10864
USGS ID: 283901082063101
WCP#: 804576
WUP#: 0



Hydrology | Water Quality

Selection | Graph

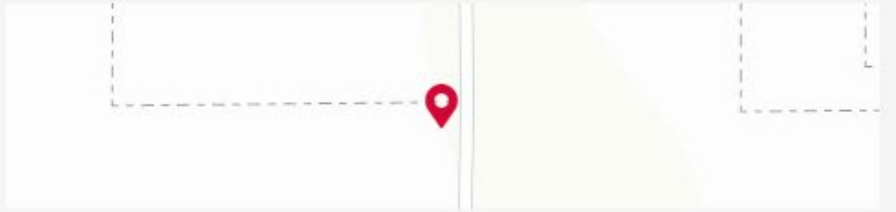
Search

- Multiple Parameters
- Alkalinity (Total)
- Aluminum (Dissolved)
- Ammonia (N) (Total)
- Boron (Dissolved)
- Calcium (Dissolved)
- Carbon- Total Organic (Total)
- Chloride (Dissolved)
- Color (Dissolved)
- Depth to Water (from mpe) (Total)
- Dissolved Oxygen (Total)
- Dissolved Oxygen Percent Saturation
- Fluoride (Dissolved)

Station Parameter Name	Time Series Name	Unit Name	From	To
WL	District Daily Maximum NAVD 88	foot	08/08/2011 1:00:00 AM	05/08/2024 1:00:00 AM
WL	District Daily Maximum NGVD 29	foot	08/08/2011 1:00:00 AM	05/08/2024 1:00:00 AM

ROMP 102.5 L Fldn Aq (bl MCU I) Monitor

Station Number:	771460	**Latitude:**	28.65031	**WCP#:**	804576
Resource Type:	Groundwater	**Longitude:**	-82.10864	**WUP#:**	0
Station Type:	Well	**USGS ID:**	283901082063101		



Hydrology | **Water Quality**

Chloride (Dissolved)

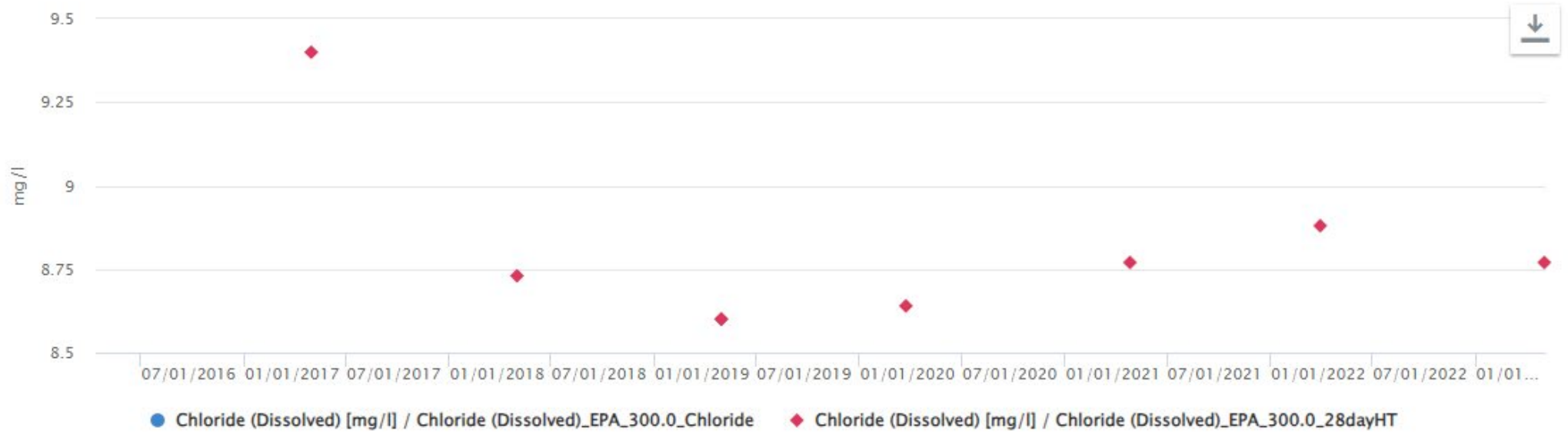
Multiple Parameters

- Alkalinity (Total)
- Aluminum (Dissolved)
- Ammonia (N) (Total)
- Boron (Dissolved)
- Calcium (Dissolved)
- Carbon- Total Organic (Total)
- **Chloride (Dissolved)**
- Color (Dissolved)
- Depth to Water (from mpe) (Total)

3 d | 10 d | 1 m | 3 m | 1 y | ∞

04/11/2016 – 05/04/2023

Graph | Table

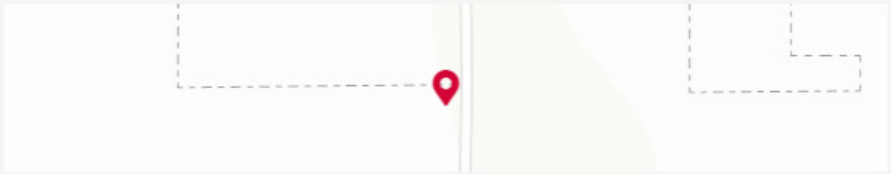


ROMP 102.5 L Fldn Aq (bl MCU I) Monitor

Station Number: 771460
Resource Type: Groundwater
Station Type: Well

Latitude: 28.65031
Longitude: -82.10864
USGS ID: 283901082063101

WCP#: 804576
WUP#: 0



Hydrology | **Water Quality**

Chloride (Dissolved)

Multiple Parameters

- Alkalinity (Total)
- Aluminum (Dissolved)
- Ammonia (N) (Total)
- Boron (Dissolved)
- Calcium (Dissolved)
- Carbon- Total Organic (Total)
- **Chloride (Dissolved)**
- Color (Dissolved)
- Depth to Water (from mpe) (Total)
- Dissolved Oxygen (Total)
- Dissolved Oxygen Percent Saturation
- Fluoride (Dissolved)

3 d | 10 d | 1 m | 3 m | 1 y | --

04/11/2016 – 05/04/2023

Graph | Table

Timestamp	Chloride (Dissolve...	Station Name	Station Number	Project Number	Parameter Type L...	Unit Symbol	Sample ID	Sample Depth
05/04/2023 9:45 AM	8.77	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201179313	554.0
03/30/2022 6:50 AM	8.88	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201141085	554.0
04/27/2021 5:40 AM	8.77	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201104451	554.0
03/23/2020 9:35 AM	8.64	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201067665	554.0
04/29/2019 10:30 ...	8.6	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201028460	554.0
04/29/2019 10:30 ...	8.6	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	201028461	554.0
05/02/2018 8:50 AM	8.73	ROMP 102.5 L Fld...	771460	P078	Chloride (Dissolved)	mg/l	200987428	554.0
05/01/2017 5:55 AM	9.4	ROMP 102.5 L Fld...	771460	P087	Chloride (Dissolved)	mg/l	200951454	554.0

Southwest Florida Water Management District

Environmental Data Portal | Water Data Viewer (External)

Station Overview | Advanced Search | User Instructions | District Data | Contact Us

Station Overview

Map | Table

Export | Search

Filter

11,018 / 11,018 Stations

Clear filter

Resource Type: All

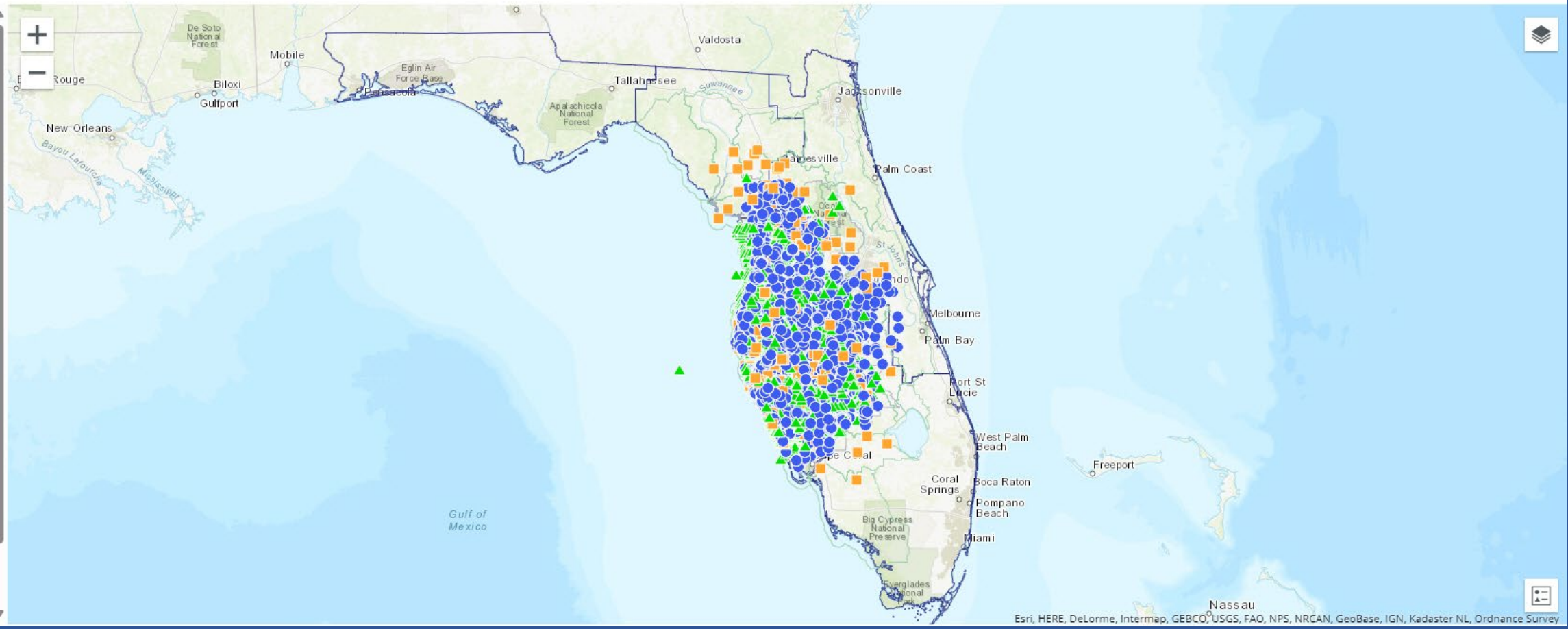
Station Type: All

Station Status: All

Primary Hydrostratigraphy: All

Project Number: All

Station Parameter Name



Advanced Metadata Retrieval
All station metadata for one or more stations in one file.

Time-Series Data Retrieval
Preview/download data for multiple station and time-series parameters.

Water-Quality Data Retrieval
Preview/download discrete water-quality samples for multiple stations.

URL Generator
Choose options to generate custom URLs to use in scripts or browsers.

Geohydrologic Data Viewer
Access ROMP reports, discrete water-level and water-quality data links to EDP, hydrostratigraphy and lithostratigraphy, FGS logs, geophysical logs, and aquifer test results.

Please review the **Frequently Asked Questions** for more information. Assistance is always available from Data Collection Bureau staff by using the e-mail link in the **Contact Information** box to the right.

New & Improved Map Viewers

The District has launched the new *Groundwater Quality Status and Trends Viewer*. With close to 500 stations belonging to five different groundwater quality projects, the viewer conveys 10 years of data allowing users to see the most current trends in groundwater. The viewer continuously updates with data available in the Environmental Data Portal (EDP). **Visit the Groundwater Quality Status and Trends Viewer »**

For users interested in hydrologic data, the *Last-Recorded Water Level and Rainfall* and *Near-Real-Time Water Level and Rainfall* map viewers are available in the **Interactive Map Gallery »**

for any direct, indirect, incidental, special, consequential, or other damages, including loss of profit, arising out of the use or inability to use these data even if the District has been advised of the possibility of such damages.

Southwest Florida Water Management District Groundwater Quality Viewer

Groundwater Quality Status and Trends

municipal groundwater withdrawals. The network is also designed to monitor up-coning of sulfate rich waters in coastal areas and limited inland areas.

Water Use Permitting Groundwater Quality Monitoring Network

The Water Use Permitting Groundwater Quality Monitoring Network (WUPNET), located in the Southern Water Use Caution Area (SWUCA), was developed to upgrade the quality of data obtained from permitted irrigation and public supply wells. This network provides a continuous, reliable data collection effort which will assist with water resource management decisions.

Inland Floridan Aquifer System Monitoring Network

The Inland Floridan Aquifer System Monitoring Network (IFASMN) involves the collection and analysis of groundwater samples within the boundaries of the Central Florida Water Initiative (CFWI). These counties include all of Sumter, Hardee and Desoto Counties, as well as parts of Marion, Polk, Lake and Highlands Counties.

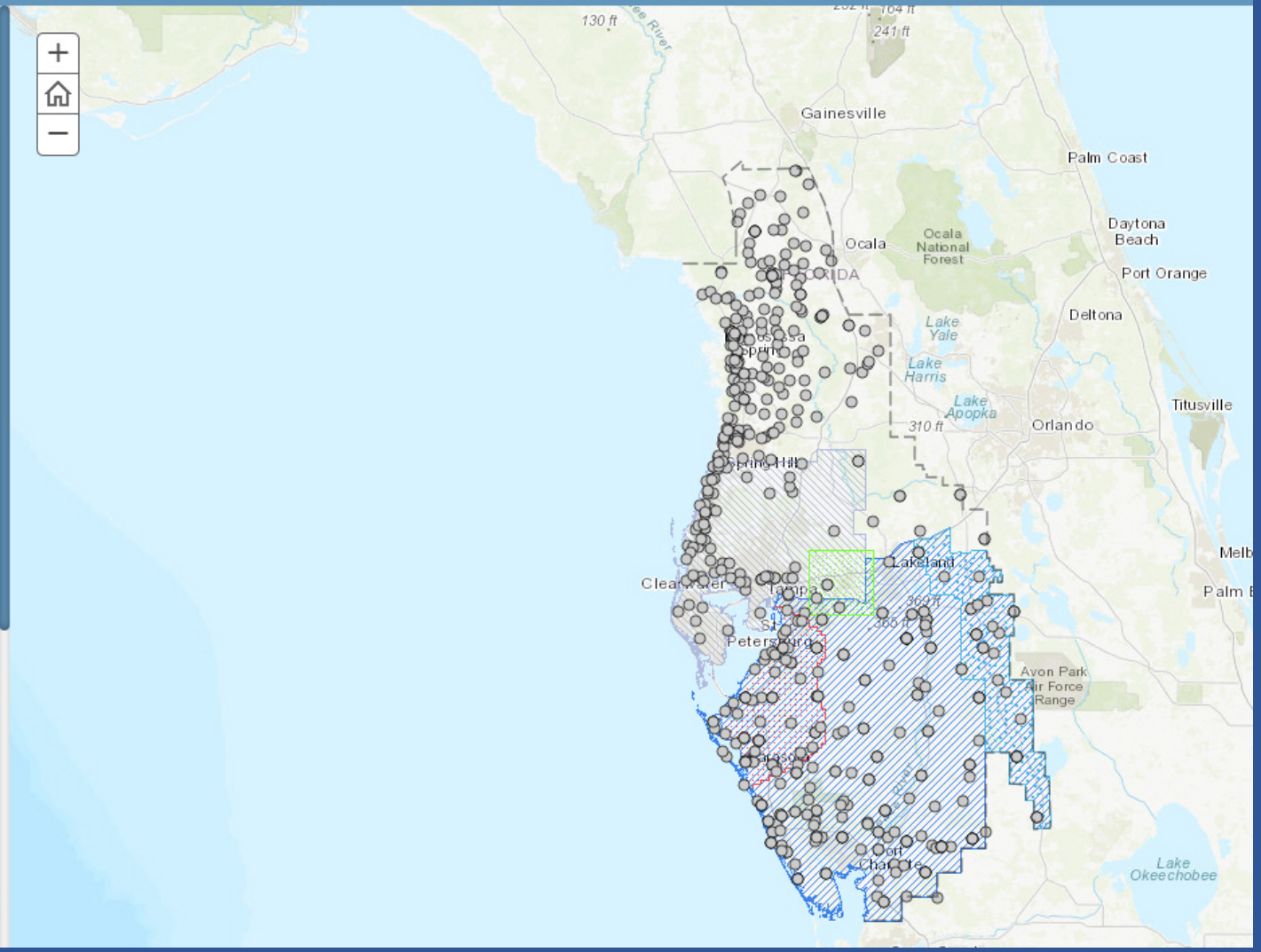
Springs Water Quality Network

Increasing nitrate levels in both inland and coastal-area springs within the District are of great concern because these springs contribute large quantities of water to local spring runs and rivers that drain into the Gulf of Mexico. Increased nitrate levels have the potential to affect aquatic ecosystems by stimulating the growth of nuisance aquatic vegetation. In addition, increasing nitrates in springs are indicative of increasing nitrate levels in the groundwater of inland areas where the spring water originates. The primary goal of the Springs Water Quality Network is to track nitrate concentrations with the long-term goal of establishing a nitrate management plan in the spring recharge [illegible]

Upper Floridan Aquifer Nutrient Monitoring Network

The Upper Floridan Aquifer Nutrient Monitoring Network (UFANMN) are used to track regional trends of nitrates in the Upper Floridan Aquifer system, within the highly vulnerable areas of the Coastal Springs recharge basins.

If you wish to view detailed data for a station, please click here. Otherwise, if you have any questions please contact us!



Southwest Florida Water Management District Groundwater Quality Viewer

Southwest Florida Water Management District

Dissolved Magnesium

Dissolved Potassium

Dissolved Sodium

Dissolved Sulfate

Total Nitrate and Nitrite

Nitrite and nitrate are inorganic forms of nitrogen that can appear in groundwater as the result of leaching of fertilizers and other nitrogenous compounds through the soil.

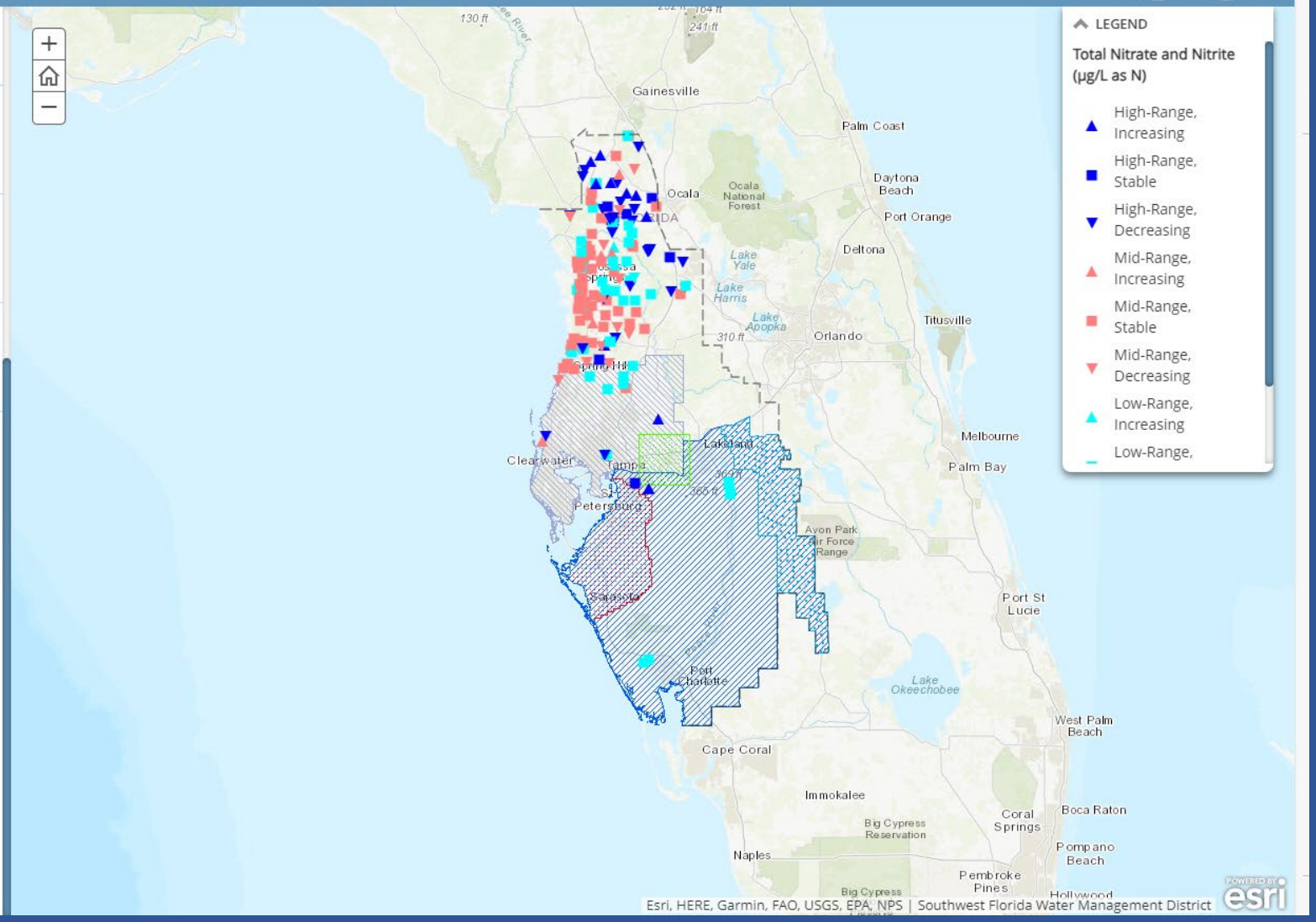
Colors on the map indicate status

- : low (0th - 25th percentile)
- : medium (25th - 75th percentile)
- : high (75th - 100th percentile)

Note that these values are low, medium, or high relative to each other, not to a specific water quality standard.

Symbols on the map indicate trends over the past 10 years

- ▲: increasing
- ▼: decreasing
- ■: stable (no detectable change)
- ●: not enough data to evaluate a trend



Laboratory Data

- Laboratory Parameters
  - Nutrients (Nitrates, Phosphates)
  - Trace metals (Aluminum, Iron)
  - Major ions (Calcium, Chlorides, Sulfates)
  - Physical Properties (Color, Turbidity)
  - Chlorophyll
- Field Parameters
  - pH
  - Specific conductance
  - Temperature
  - Dissolved oxygen
  - Turbidity

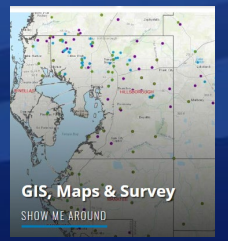
Data Collection Bureau Overview

Administration

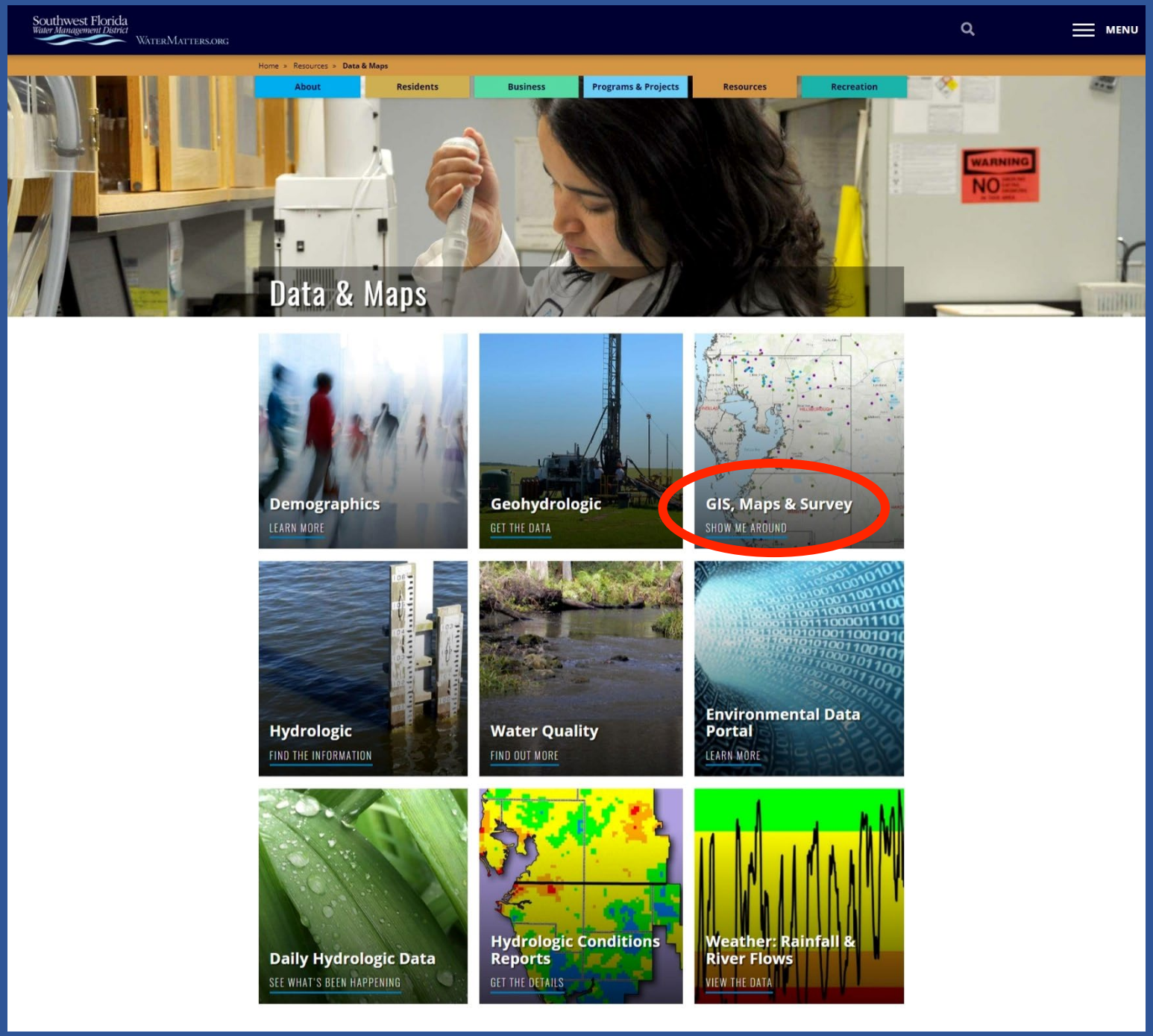
- **Geohydrologic Data**
  - Coring
  - Well Construction
  - Aquifer Testing
- **Hydrologic Data**
  - Water Levels
  - Rainfall
  - Evapotranspiration
- **Water Quality Monitoring**
  - Field Parameters
  - Laboratory Analyses
- **Mapping & GIS**
  - GIS Layers/Maps
  - Aerial Imagery
  - Land Surveying

Southwest Florida Water Management District Geohydrologic Data Map Viewer

ENVIRONMENTAL DATA PORTAL



Southwest Florida Water Management District


Southwest Florida Water Management District
WaterMatters.org
MENU
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SEE WHAT'S BEEN HAPPENING
Hydrologic Conditions Reports
GET THE DETAILS
Weather: Rainfall & River Flows
VIEW THE DATA

GIS, Maps & Survey

Interactive Map Gallery

The District's new map gallery contains dynamic interactive maps created by District staff. This gallery contains general purpose and District-specific maps. VIEW MAP GALLERY »

Aerial Photography

The District provides an extensive collection of digital aerial photos (DOQQ: Digital Orthophoto Quarter Quadrangle) available through the Florida Images Inventory. VIEW IMAGERY »

District Maps and District Service Office Locations

Our service office addresses and District maps pertaining to watersheds, planning regions and water restrictions, plus links to Google location maps. VIEW MAPS »

GIS Data

The GIS Open Data portal allows consumers to interact with data through charts, tables, and maps. The information can be of value to many governmental agencies, private businesses and the public. Use of these data require a general understanding of GIS. The data can be downloaded into spreadsheet format, KML, or shapefile. The Open Data site works best with either Firefox or Chrome and is available from 6 a.m. to 10 p.m. GO TO OPEN DATA PORTAL »

Survey Benchmarks

Data & Maps Sections

- Demographics »
- Geohydrologic »
- GIS, Maps & Survey
- Hydrologic »
- Water Quality »

Contact Us

If you have questions about District data or maps, email Data.Maps@WaterMatters.org.

Disclaimer: The user assumes the entire risk related to its use of these data. The Southwest Florida Water Management District provides these data on an "as is" basis and specifically disclaims any warranty, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular use. The entire risk as to quality and performance is with the user. In no event will the District or its staff be liable for any direct, indirect, incidental, special, consequential, or other

Interactive Map Gallery

Hover over one of the interactive maps below for a detailed description, instructions and access to the application.

Geohydrologic Data Map Vie...

Permits - ERP Mapping Applic...

Permits - WUP Mapping Appli...

Permits - WCP Mapping Appli...

Water Quality Collection Sites

Last-Recorded Value for Hydr...

Near-Real-Time Hydrologic D...

Which District Am I In?

General Mapping Application

Data & Maps

- Demographics »
- Geohydrologic »
- GIS, Maps & Survey »
- Hydrologic »
- Water Quality »

Contact Us

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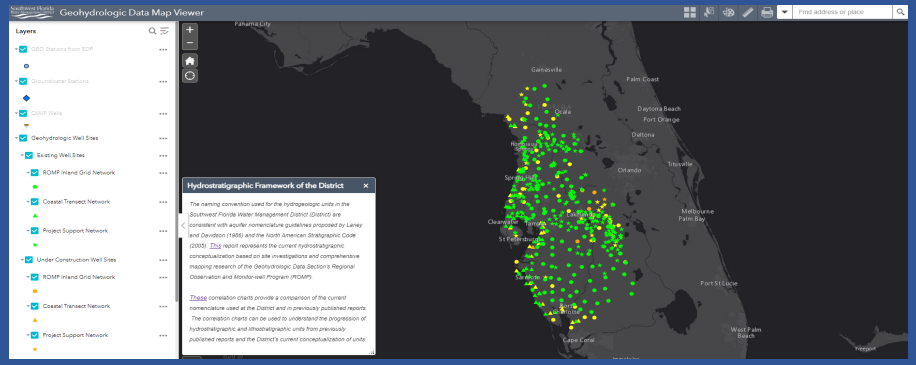
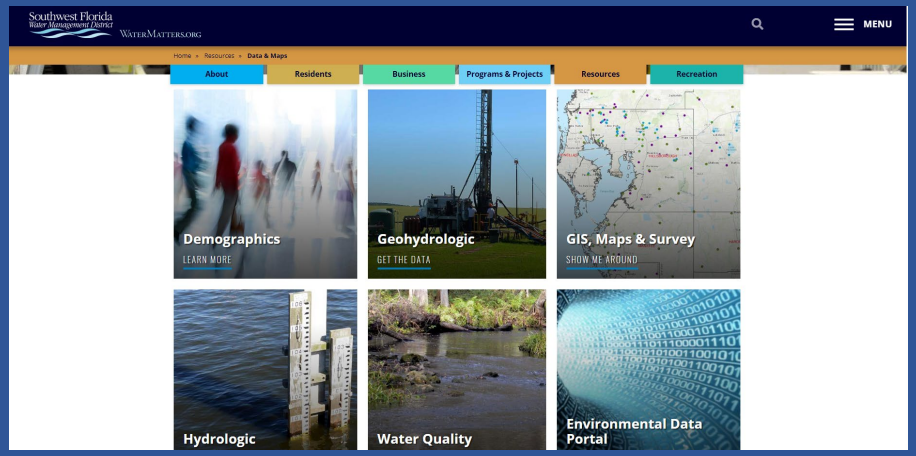
Summary of Available Data Types

- Geohydrologic Data Map Viewer
  - Hydrogeologic
- Environmental Data Portal
  - Hydrologic
  - Water quality
- Maps & Survey Elevations
  - Data & Maps webpage

Watermatters.org/data & maps





Southwest Florida Water Management District

Inquiries

- Email: Data.Maps@WaterMatters.org

Questions