

SFWMD DBHydro Database Access and Data Retrieval

Michael Breslin – Data Scientist – SFWMD

What is DBHydro?

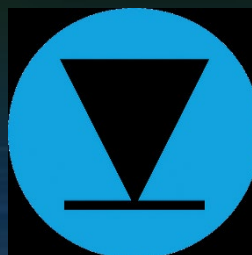
- District Corporate Environmental Database
- Multi-agency Data
- Examples of Data Available in DBHydro:

- Hydrologic
- Meteorological
- Water Quality
- Hydrogeologic

Flow



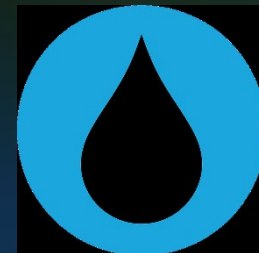
Stage



Weather



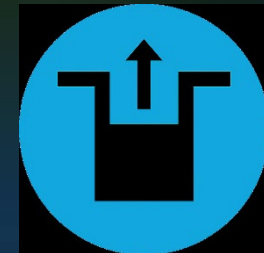
Rain



Grab

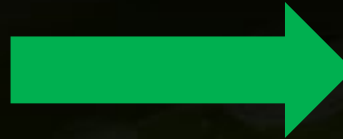


Well



What is DBHydro Insights?

DBHydro Browser



HYDROLOGIC, PHYSICAL, & OTHER TIME SERIES DATA

☐ Surface Water ...OR get this data one of these ways:
☐ Meteorological [by Station](#)
☐ Groundwater [by Site Name](#)
☐ WQ - [by Hydrologic Basin](#)
Sondes/Loads

[Get Data](#)

This data is also available via the web map

HYDROGEOLOGIC DATA


[Get Data](#)

This data is also available via the web map

WATER QUALITY DATA


[Get Sample Data](#)

This data is also available via the web map

GET DATA VIA WEB MAP 

OTHER

[DBHYDRO Insights \(New!\)](#)
[ET Data and Radar-Based Rainfall Data](#)
[Metadata/Reference Tables](#)
[Miscellaneous Items and Reports](#)

Q Lens Options ▾ Pages ▾ ♥ Favorites ▾ Search (2 characters min) filterBy ▾

Lake Okeechobee
12.27
ft-NGVD

Lake Istokpoga
39.14
ft-NGVD

Lake Tohopekaliga
52.64
ft-NGVD

East Tohopekaliga
55.88
ft-NGVD

Lake Kissimmee
ft-NGVD

filterBy ▾

Available Lens Options

Sites

Structures

Stormwater Treatment Areas


Watersheds

Data

System Coming Soon!

[Show Lens Descriptions](#)


DBHydro Insights Homepage


**DBHYDR***insights*


Q Lens Options ▾


Pages ▾


♥ Favorites ▾


 Search (2 characters min) filterBy ▾

**Lake Okeechobee**
12.27
ft-NGVD

**Lake Istokpoga**
39.14
ft-NGVD


**Lake Tohopekaliga**
52.64
ft-NGVD

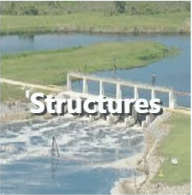
**East Tohopekaliga**
55.88
ft-NGVD


**Lake Kissimmee**
ft-NGVD


Search Insights (2 characters min) filterBy ▾


Available Lens Options

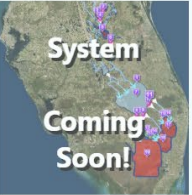
**Sites**

**Structures**

**Stormwater
Treatment
Areas**

**Watersheds**

**Data**

**System
Coming
Soon!**

[Show Lens Descriptions](#)

DBHydro Insights Homepage

The screenshot shows the DBHydro Insights homepage. The top navigation bar includes the SFWMD logo, the DBHYDRO insights logo, and links for Lens Options, Pages, and Favorites. A search bar with a question mark icon and a filterBy dropdown is also present. The main content area features three lake status cards: Lake Okeechobee (12.27 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). Below these are three featured sections: Sites, Watersheds, and Data. The Pages menu is open, displaying a list of links: SFWMD Home, User's Guide, What's New, FAQ, Reference Tables, Site Status, Discharge Calculator, STA Target Stage Report, ET Data and Radar-Based Rainfall Data, District Daily Rainfall Report, Water Quality OLECAS Report, Geospatial Open Data Portal, and Resiliency. A 'Coming Soon!' banner for the System is also visible.

DBHYDRO insights

Search (2 characters min) filterBy

Lake Okeechobee
12.27
ft-NGVD

East Tohopekaliga
55.88
ft-NGVD

Lake Kissimmee
ft-NGVD

Sites

Watersheds

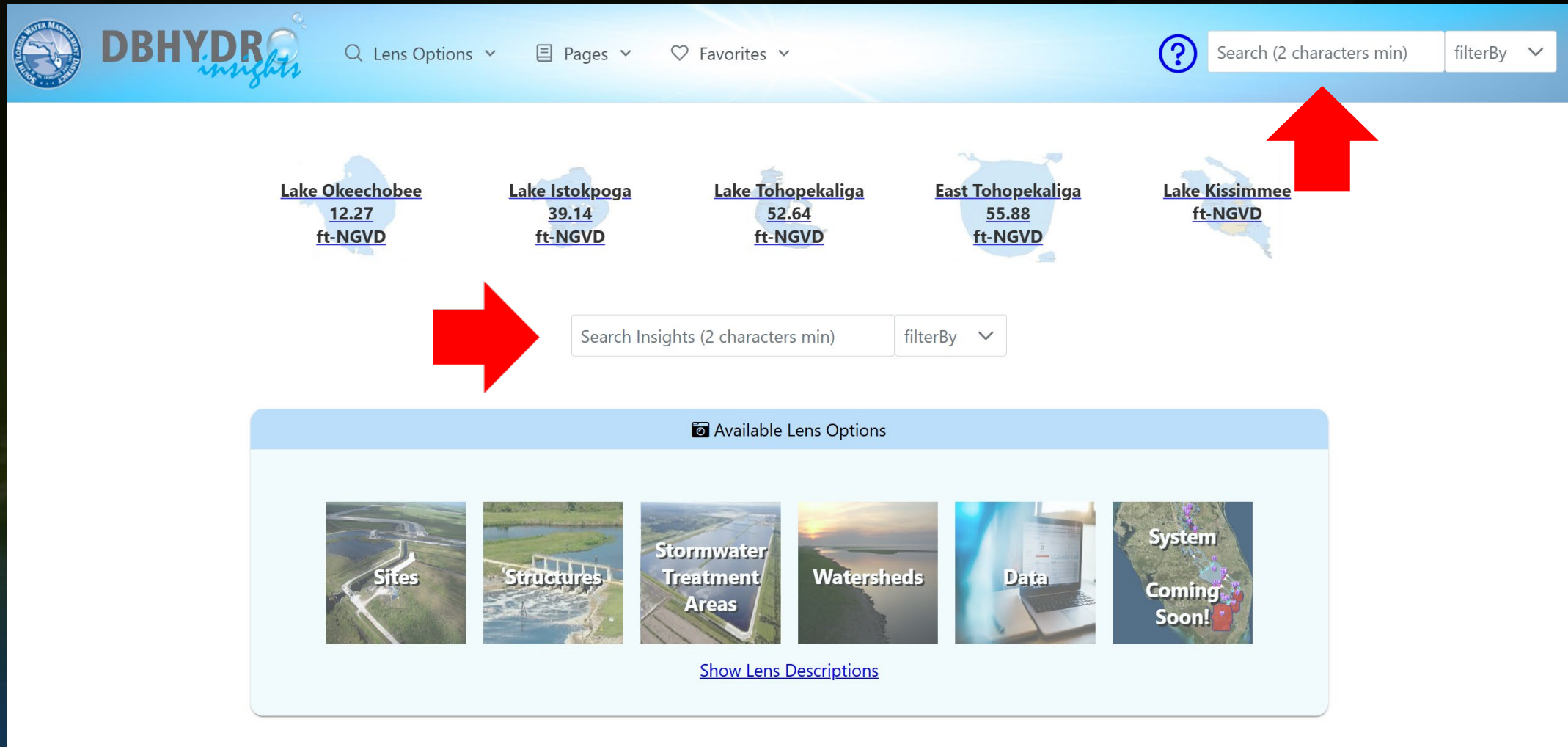
Data

System Coming Soon!

Pages

- SFWMD Home
- User's Guide
- What's New
- FAQ
- Reference Tables
- Site Status
- Discharge Calculator
- STA Target Stage Report
- ET Data and Radar-Based Rainfall Data
- District Daily Rainfall Report
- Water Quality OLECAS Report
- Geospatial Open Data Portal
- Resiliency

DBHydro Insights Homepage



The screenshot shows the DBHydro Insights homepage. At the top is a blue header with the SFWMD logo, the DBHYDRO insights logo, and navigation links for Lens Options, Pages, and Favorites. A search bar with a question mark icon and a filterBy dropdown is also present. Below the header, five lake cards are displayed, each with a map icon, the lake name, a numerical value, and the unit 'ft-NGVD'. A red arrow points to the Lake Kissimmee card. Below the lake cards is a search bar labeled 'Search Insights (2 characters min)' with a filterBy dropdown, and a red arrow points to it. At the bottom, a section titled 'Available Lens Options' contains six cards: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! A link 'Show Lens Descriptions' is located below these cards.

DBHYDRO insights

Search (2 characters min) filterBy

[Lake Okeechobee](#)
12.27
ft-NGVD

[Lake Istokpoga](#)
39.14
ft-NGVD

[Lake Tohopekaliga](#)
52.64
ft-NGVD

[East Tohopekaliga](#)
55.88
ft-NGVD

[Lake Kissimmee](#)
ft-NGVD

Search Insights (2 characters min) filterBy

Available Lens Options

[Sites](#)

[Structures](#)

[Stormwater Treatment Areas](#)

[Watersheds](#)

[Data](#)

[System Coming Soon!](#)

[Show Lens Descriptions](#)

DBHydro Insights Homepage

The screenshot displays the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the DBHYDR insights logo. The top navigation bar includes a search bar with the text "Search (2 characters min)" and a "filterBy" dropdown. Below the search bar, there are three dropdown menus: "Lens Options", "Pages", and "Favorites". The "Lens Options" menu is open, showing a list of categories: Home, Site, Structure, STA, Watershed, and Data. The "Data" category is selected, and a sub-menu is open, listing "Hydrology & Continuous", "Field Sample Results (WQ)", "Hydrogeology", and "Map". A red arrow points to the "Map" option in this sub-menu. Below the navigation bar, there are four data cards for different lakes: Lake Istokpoga (39.14 ft-NGVD), Lake Tohopekaliga (52.64 ft-NGVD), East Tohopekaliga (55.88 ft-NGVD), and Lake Kissimmee (ft-NGVD). Each card features a map of the lake. Below the data cards, there is a section titled "Lens Options" with six tiles: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! A link "Show Lens Descriptions" is located below the tiles.

DBHYDR insights

Search (2 characters min) filterBy

Lens Options Pages Favorites

Home Site Structure STA Watershed Data

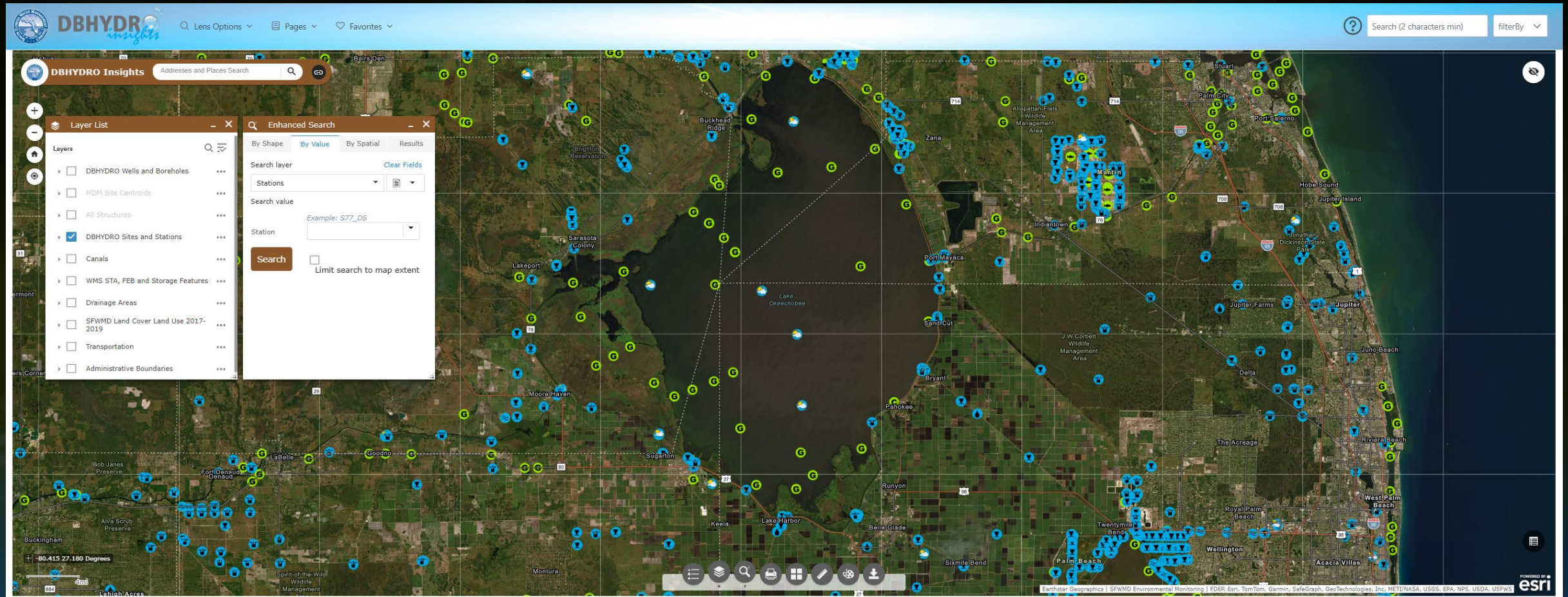
Hydrology & Continuous Field Sample Results (WQ) Hydrogeology Map

Lake Istokpoga 39.14 ft-NGVD Lake Tohopekaliga 52.64 ft-NGVD East Tohopekaliga 55.88 ft-NGVD Lake Kissimmee ft-NGVD

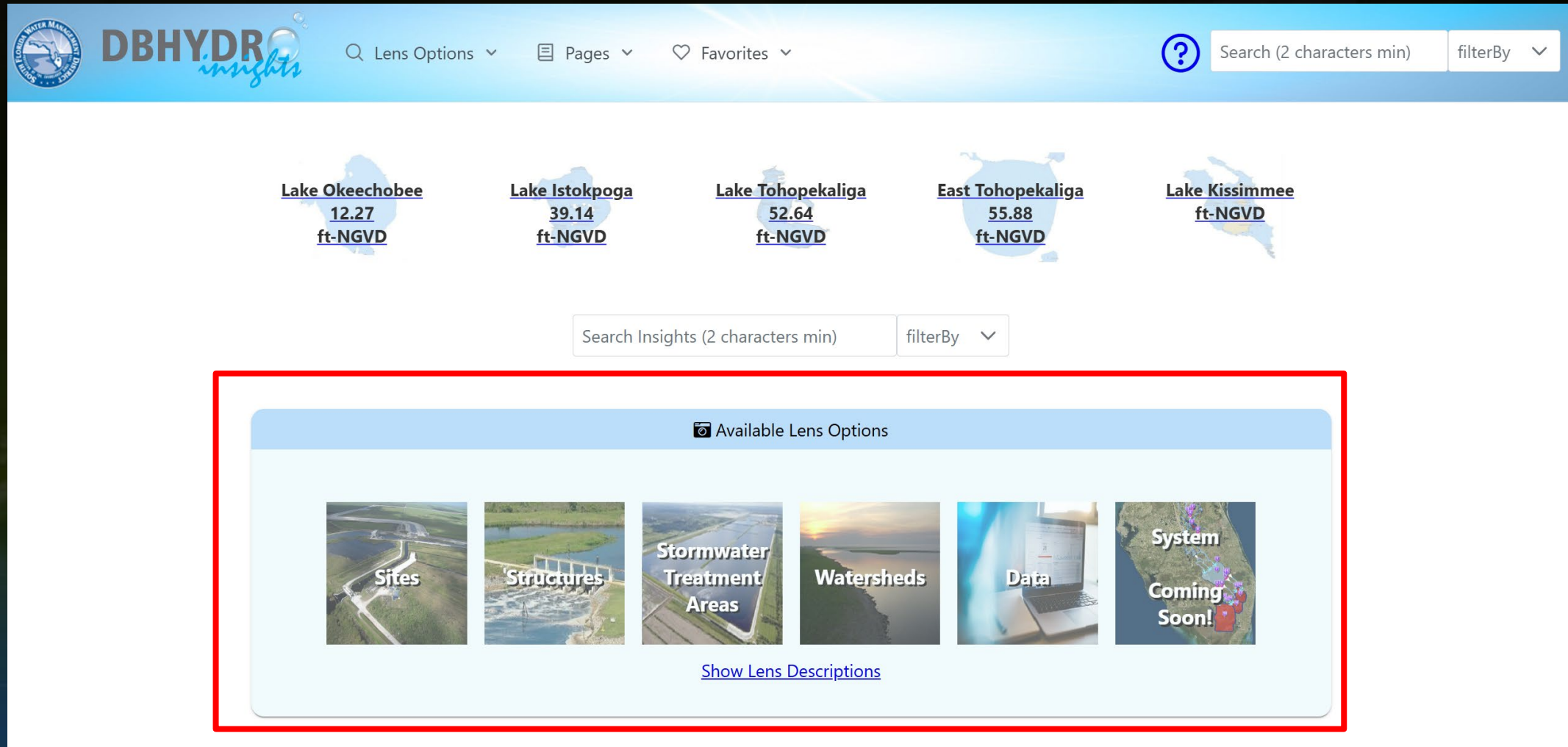
Sites Structures Stormwater Treatment Areas Watersheds Data System Coming Soon!

Show Lens Descriptions

DBHydro Insights Homepage



DBHydro Insights Homepage



The screenshot shows the DBHydro Insights homepage. At the top is a blue header with the SFWMD logo, the DBHYDRO insights logo, and navigation links for Lens Options, Pages, and Favorites. A search bar and a filterBy dropdown are also present. Below the header, five lake cards are displayed, each with a map outline and elevation data. A second search bar and filterBy dropdown are located below the lake cards. A red rectangle highlights a section titled 'Available Lens Options' which contains six image-based buttons: Sites, Structures, Stormwater Treatment Areas, Watersheds, Data, and System Coming Soon! A link to 'Show Lens Descriptions' is positioned below these buttons.

DBHYDRO insights

Search (2 characters min) filterBy

Lake Okeechobee 12.27 ft-NGVD

Lake Istokpoga 39.14 ft-NGVD

Lake Tohopekaliga 52.64 ft-NGVD

East Tohopekaliga 55.88 ft-NGVD

Lake Kissimmee ft-NGVD

Search Insights (2 characters min) filterBy

Available Lens Options

Sites Structures Stormwater Treatment Areas Watersheds Data System Coming Soon!

[Show Lens Descriptions](#)

DBHydro Insights Homepage

The screenshot displays the DBHydro Insights homepage. At the top left is the South Florida Water Management District logo and the "DBHYDR insights" branding. The top navigation bar includes "Lens Options", "Pages", and "Favorites" dropdowns, a search bar with the placeholder "Search (2 characters min)", and a "filterBy" dropdown. A dropdown menu for "Lens Options" is open, listing "Home", "Site", "Structure", "STA", "Watershed", "Data", and "Map". The "Data" option is highlighted with a red box, and a red arrow points from it to the "Data" card in the main content area. The main content area features four cards for different locations: "Lake Istokpoga" (39.14 ft-NGVD), "Lake Tohopekaliga" (52.64 ft-NGVD), "East Tohopekaliga" (55.88 ft-NGVD), and "Lake Kissimmee" (ft-NGVD). Below these is a row of six cards: "Sites", "Structures", "Stormwater Treatment Areas", "Watersheds", "Data", and "System Coming Soon!". A "Show Lens Descriptions" link is at the bottom.

DBHYDR insights

Search (2 characters min) filterBy

Home
Site
Structure
STA
Watershed
Data
Map

Lake Istokpoga 39.14 ft-NGVD
Lake Tohopekaliga 52.64 ft-NGVD
East Tohopekaliga 55.88 ft-NGVD
Lake Kissimmee ft-NGVD

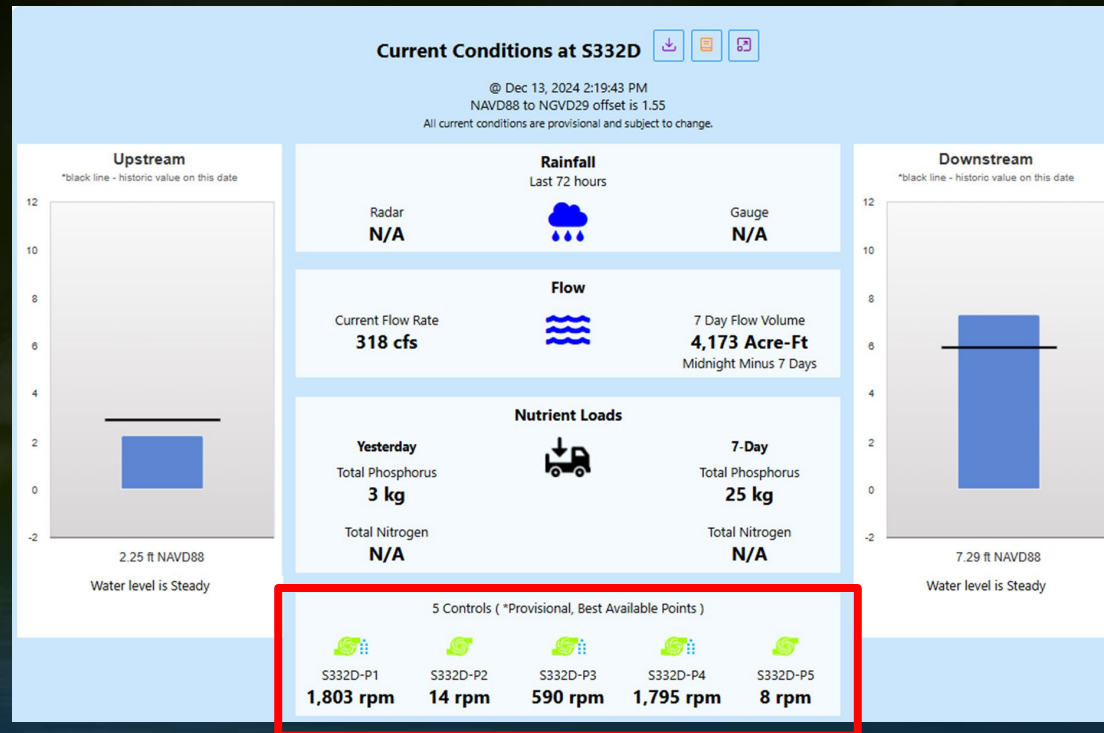
Sites
Structures
Stormwater Treatment Areas
Watersheds
Data
System Coming Soon!

Show Lens Descriptions

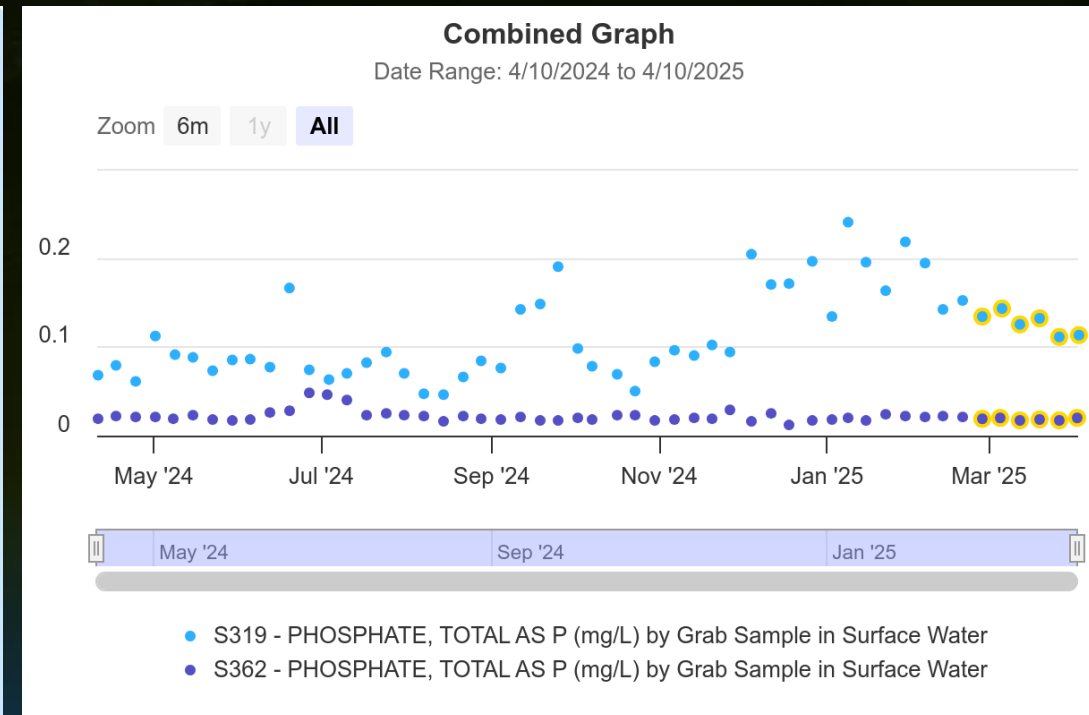
Lenses in DBHydro Insights

**Sites****Structures****Data**

Current Conditions from the Site/Structure Lens



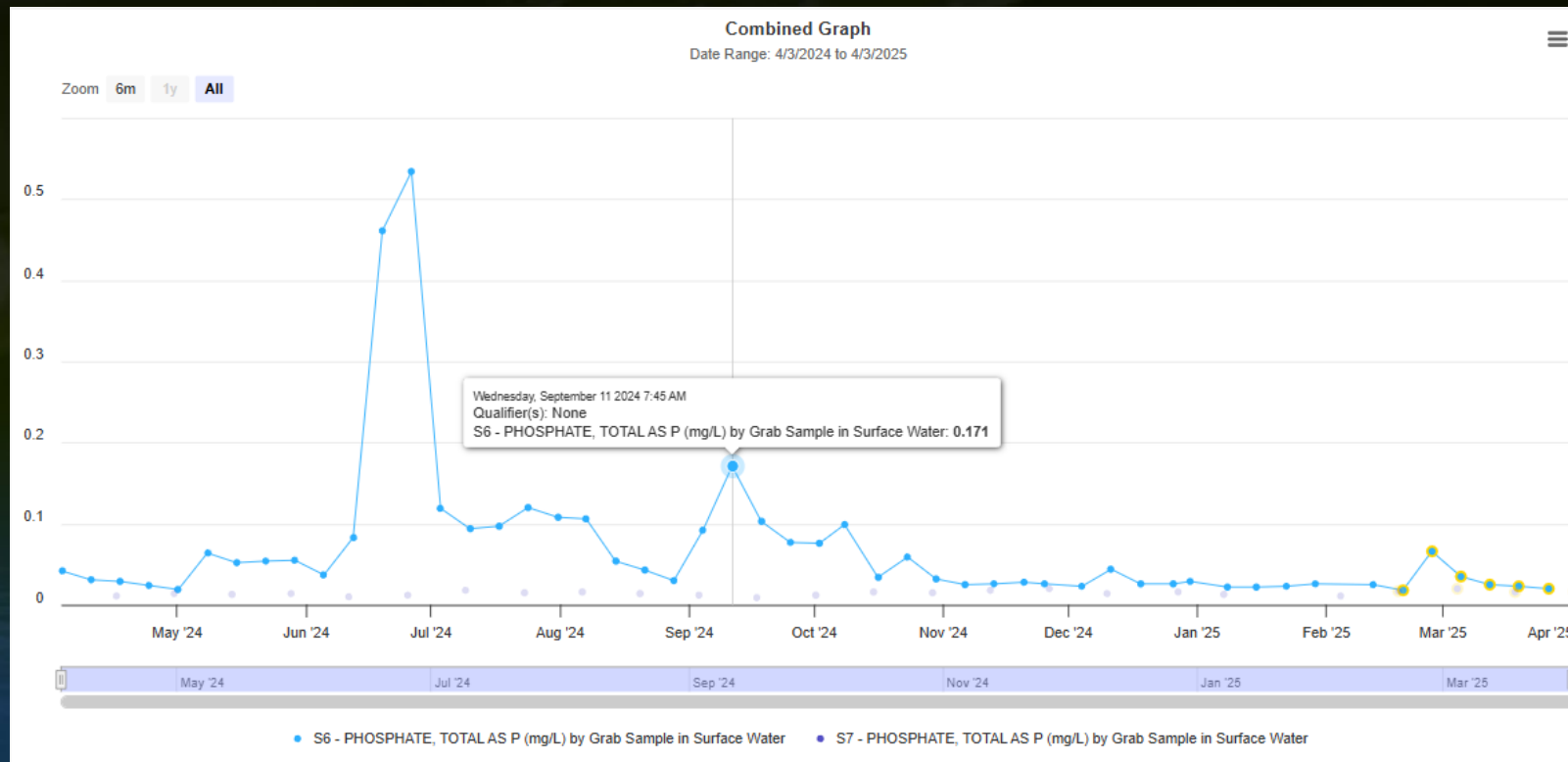
Combined Graph of Stage from Data Lens



Data Lens

➤ Interactive Visualizations:

Explore datasets through charts, graphs, and maps for deeper insights.



Data Lens

➤ Customizable Filters:

Refine data by parameters, date ranges, locations, or attributes.

➤ Sort and re-order columns

Water Qua

▼ Filter Criteria (7)

This section shows a summary of your selected filters. Use left hand side filters to refine results summary




Date Range: 365days

Stations: S319 (X)

Parameters: 25 (X) 9 (X) 7 (X)

Methods: ACF (X) G (X)

▼ List of Datasets Found - 4

Hide  Download Dataset List  Reference Tables 

<input type="checkbox"/>	↑ 1 Project	↑ 2 Station	↑ 3 Parameter Desc	↑ 4 Matrix
<input type="checkbox"/>	ST1E	S319	PHOSPHATE, TOTAL AS P	SW
<input type="checkbox"/>	ST1E	S319	PHOSPHATE, TOTAL AS P	SW
<input type="checkbox"/>	ST1E	S319	SP CONDUCTIVITY, FIELD	SW
<input type="checkbox"/>	ST1E	S319	Temperature	SW

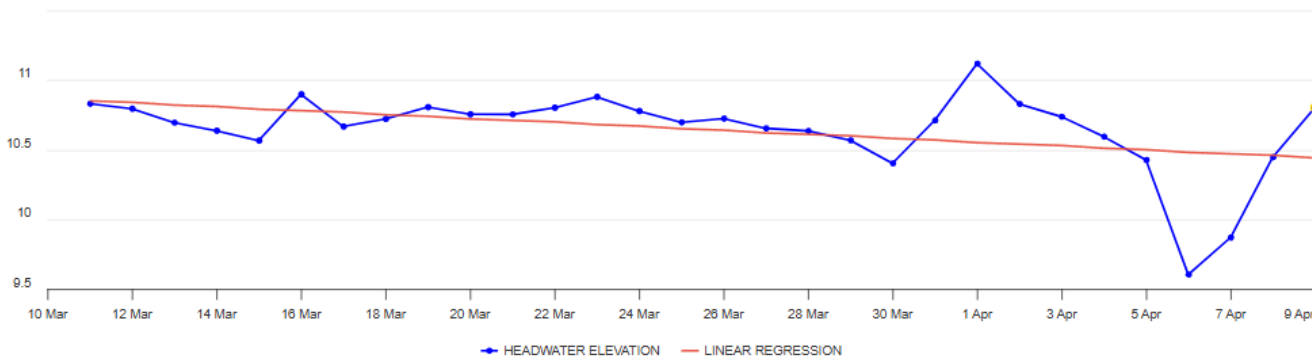
Showing 1 to 4 of 4 << <

Data Lens

Values highlighted in yellow or dashes indicate provisional data
Rainfall provisional data plotted as lighter shade of blue

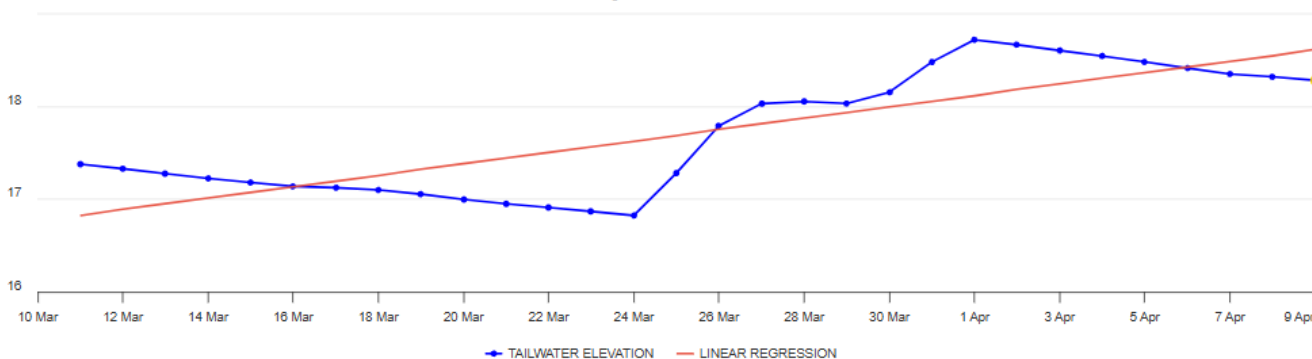
S319_H - Telemetry (Radio Network) Mean Daily water level (ft - NAVD88)

Date Range: 3/11/2025 to 4/11/2025



S319_T - Telemetry (Radio Network) Mean Daily water level (ft - NAVD88)

Date Range: 3/11/2025 to 4/11/2025



Multiple Charting Options:

- Multiple Time Series On the Same Graph
- Simple
 - Single Charts
 - Stacked Charts

Data Lens

➤ **Export Options: Download visualizations or filtered datasets (CSV, PNG, etc.)**

Choose Output Options

*Maximum of 250,000 data points at this time
Row count for current selection(s): 76

Report Type:

Timeseries

▼

Report Format:

File

▼

Date Range:

Past 365 Days

▼

Get Data

Print chart

Download PNG image

Download JPEG image

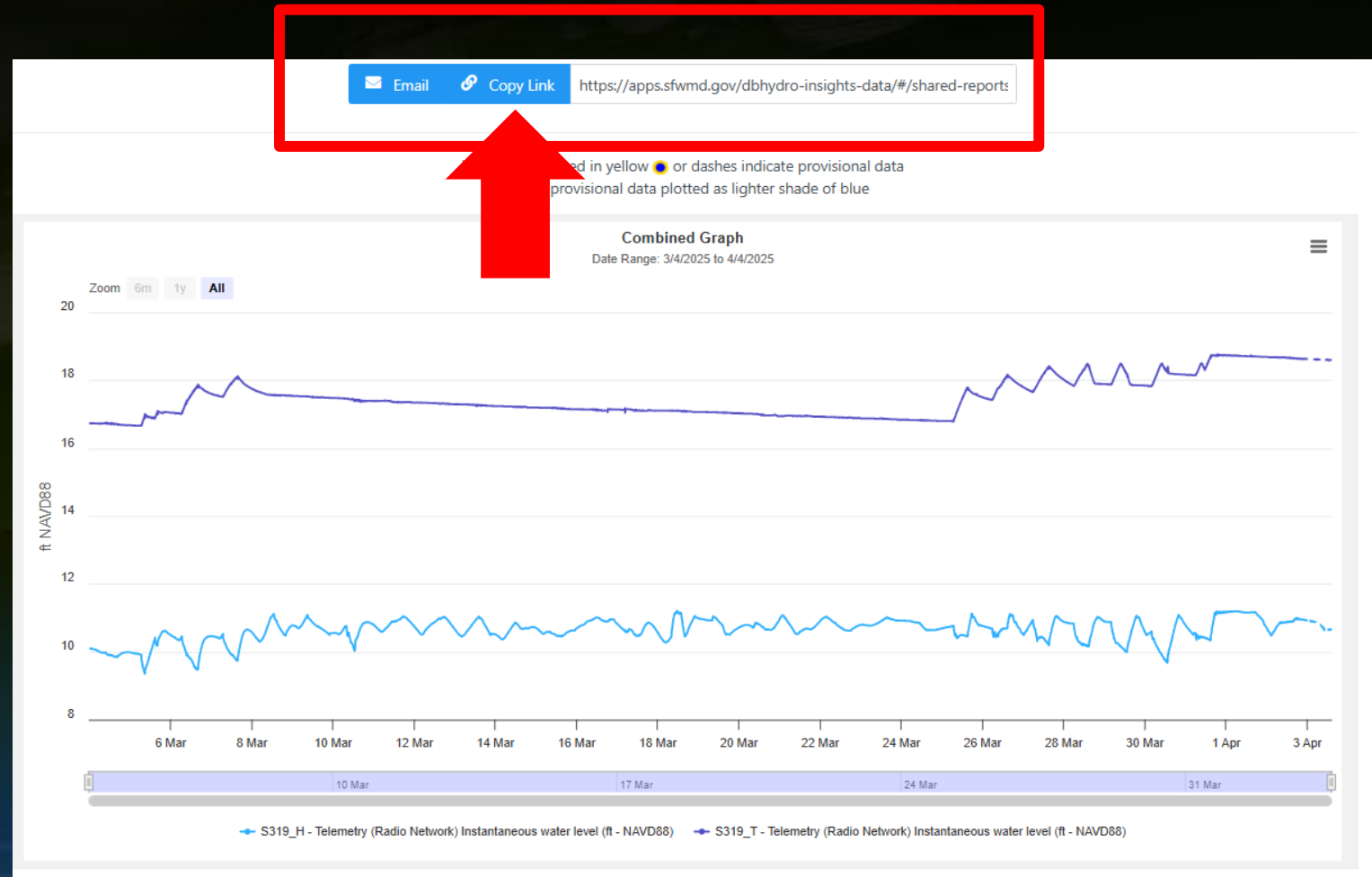
Download PDF document

Download CSV

Download XLS

Data Lens

- **URL Creation:**
Generate dynamic, shareable URLs that reflect current views.
- Copy URL to Desktop
 - Add URL to Bookmarks
 - Share URL through email

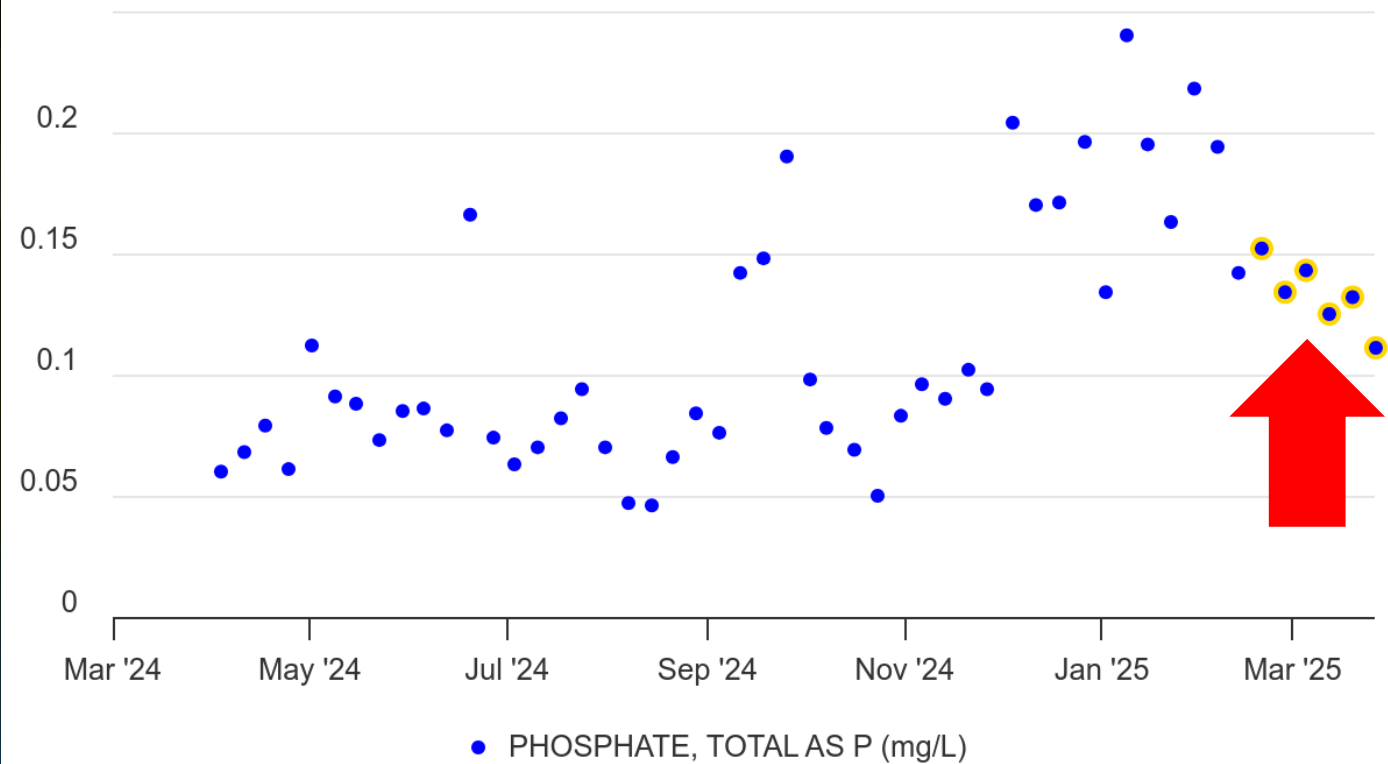


Data Lens

➤ **Real-Time Updates:**
Access the most recent data, including provisional values.


S319 - PHOSPHATE, TOTAL AS P (mg/L) by Grab Sample in Surface Water

Date Range: 4/3/2024 to 4/3/2025






Data Lens

- **Reference Tables: View metadata, monitoring plans, and station attributes.**





> Filter Criteria (1)

✓ List of Datasets Found

Hide  Download Dataset List  Reference Tables 

<input type="checkbox"/>	1 Station	2 Site	3 Parameter	4 Units	5 Frequency	6 Statistic Type	7 Agency	8 Strata	9 Gate No.	10 Recorder	11 Sensor
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		DRV	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		TELE	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		DRV	H
<input type="checkbox"/>	S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		TELE	H
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	BK	INST	WMD	0		DRV	
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		PREF	
<input type="checkbox"/>	S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		DRV	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
<input type="checkbox"/>	S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	

Showing 1 to 15 of 50 << < 1 > >> 15

Pages  Favorites 

SFWMD Home
User's Guide
What's New
FAQ
Reference Tables
Site Status
Discharge Calculator
STA Target Stage Report
ET Data and Radar-Based Rainfall Data
District Daily Rainfall Report
Water Quality OLECAS Report
Geospatial Open Data Portal
Resiliency

Data Lens Overview

- A modern, interactive way to explore South Florida's environmental data
- Tools to filter, visualize, compare, and export multi-agency datasets
- Faster access to current and provisional data for informed decision-making
- Improved transparency, usability, and performance over the legacy browser
- Built with the needs of scientists, analysts, and the public in mind

Reach out to us at datarequests@sfwmd.gov