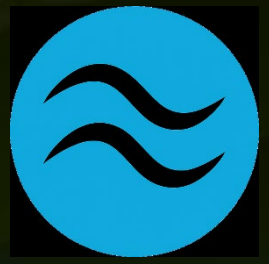
SFWMD DBHydro Database Access and Data Retrieval

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

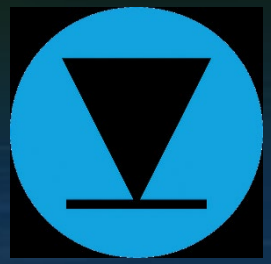
Flow



Weather

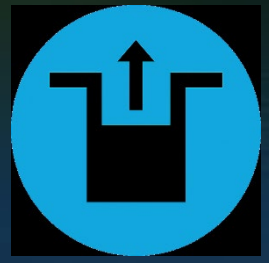
Grab

Stage



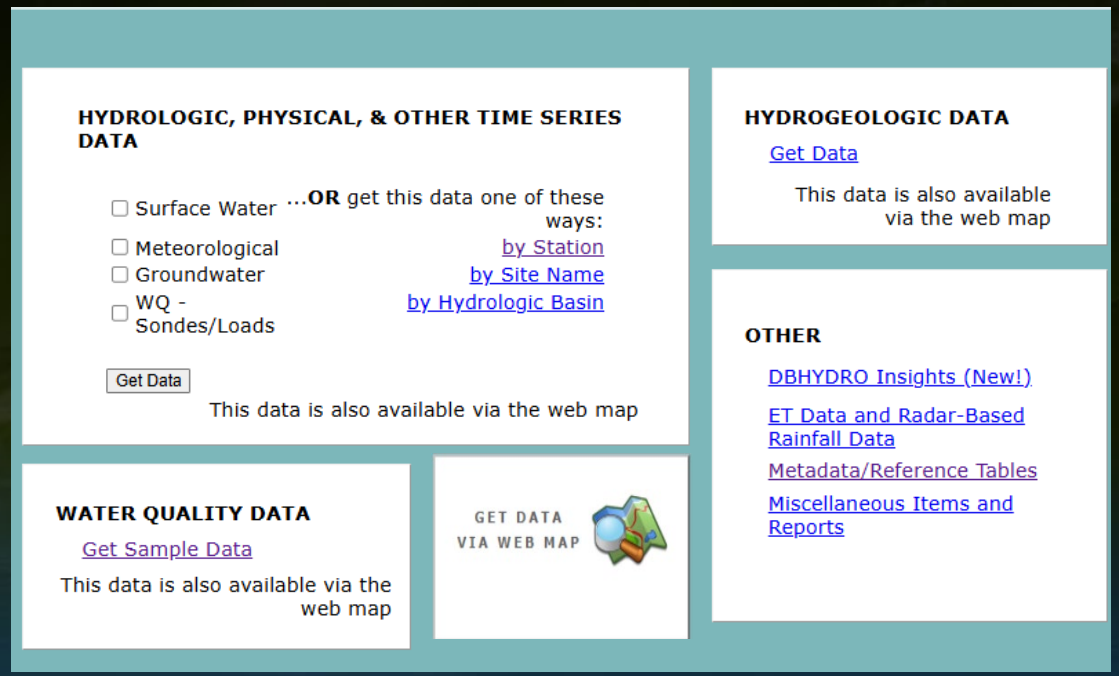
Rain

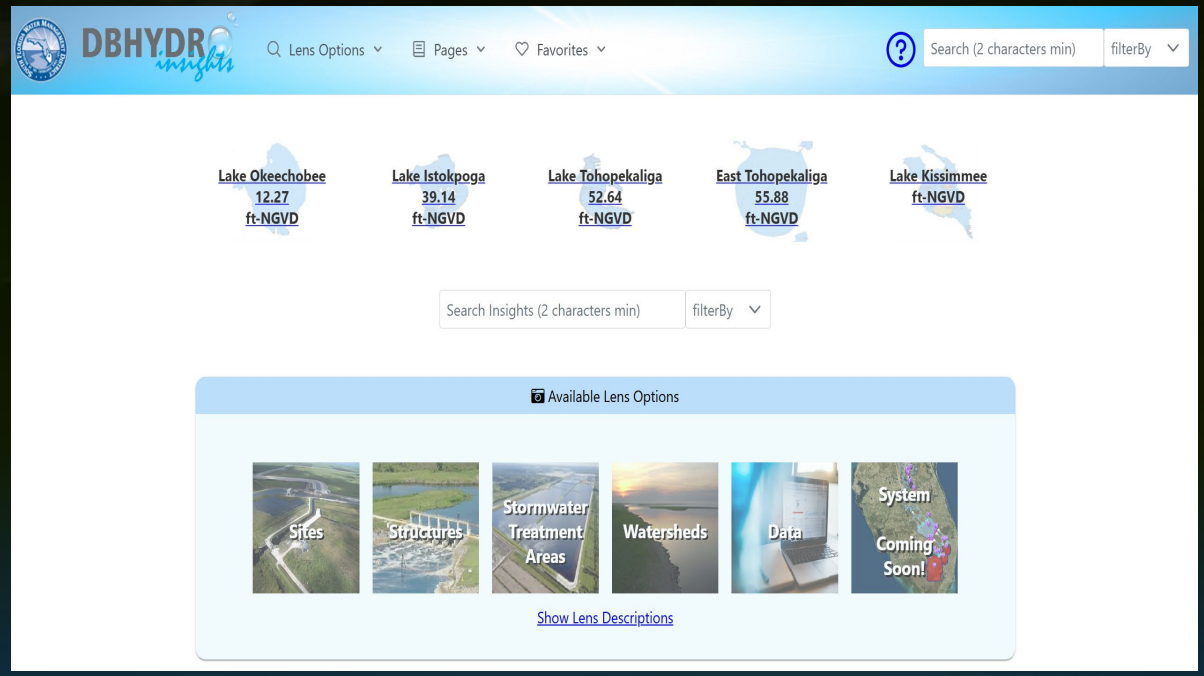
Well



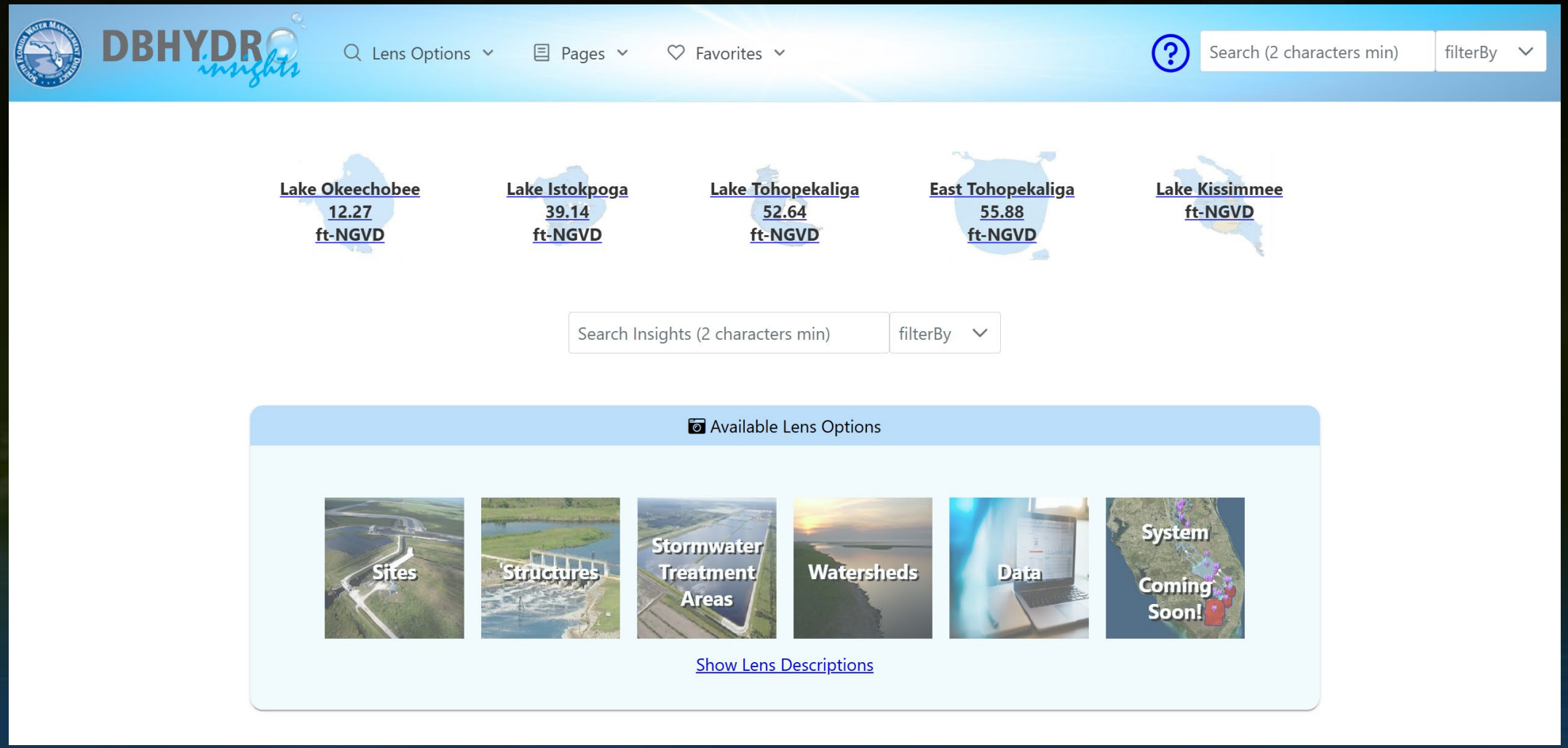
What is DBHydro Insights?

DBHydro Browser

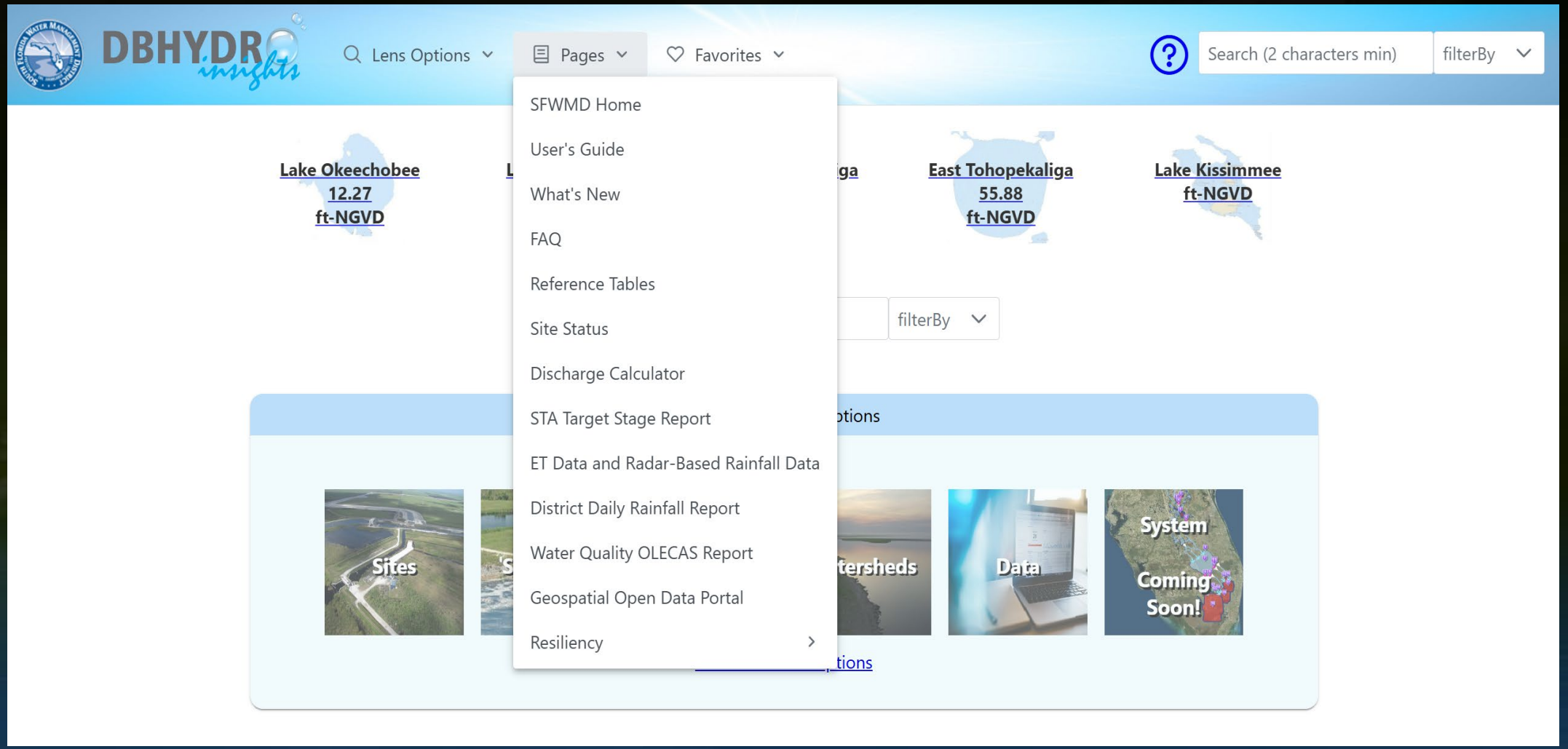




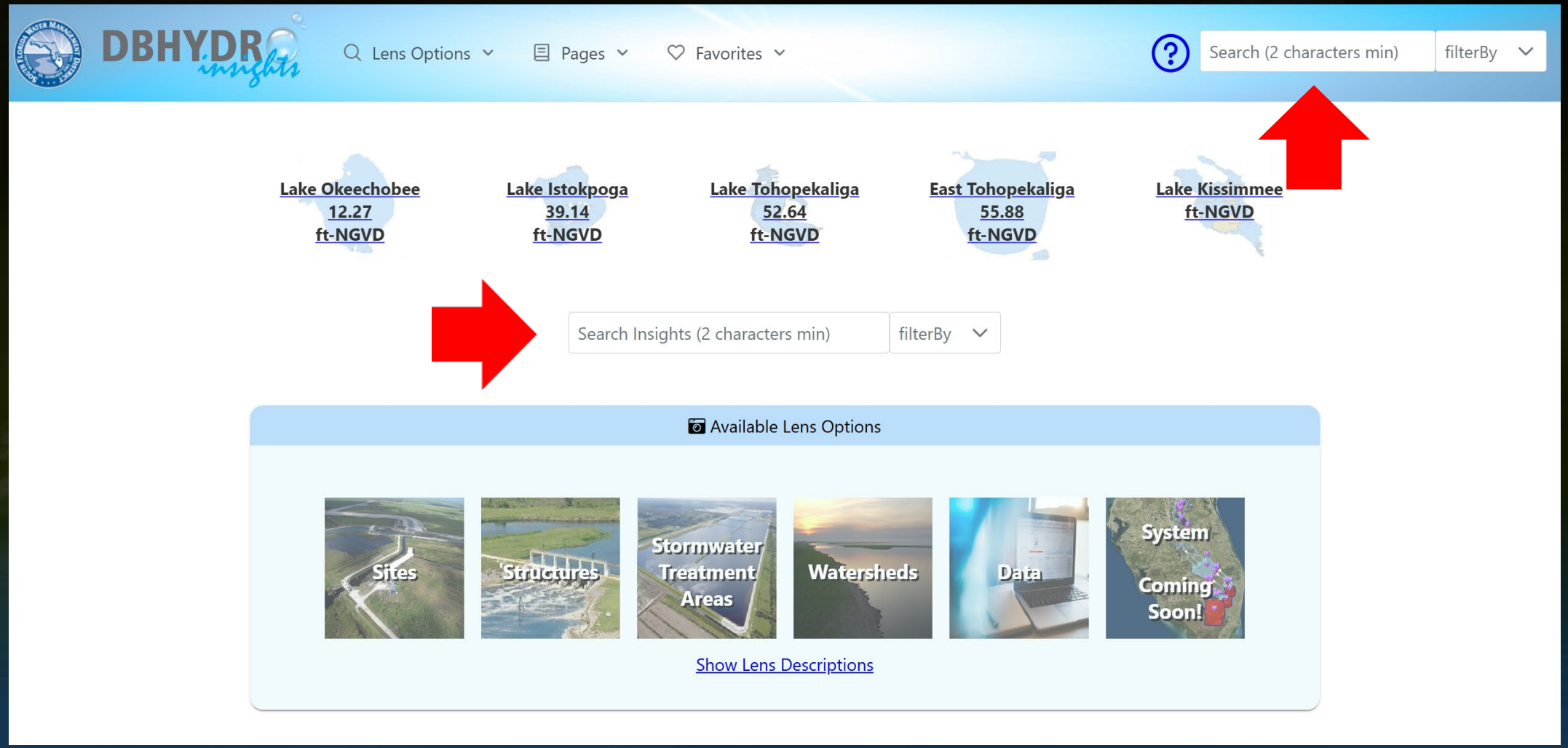
DBHydro Insights Homepage



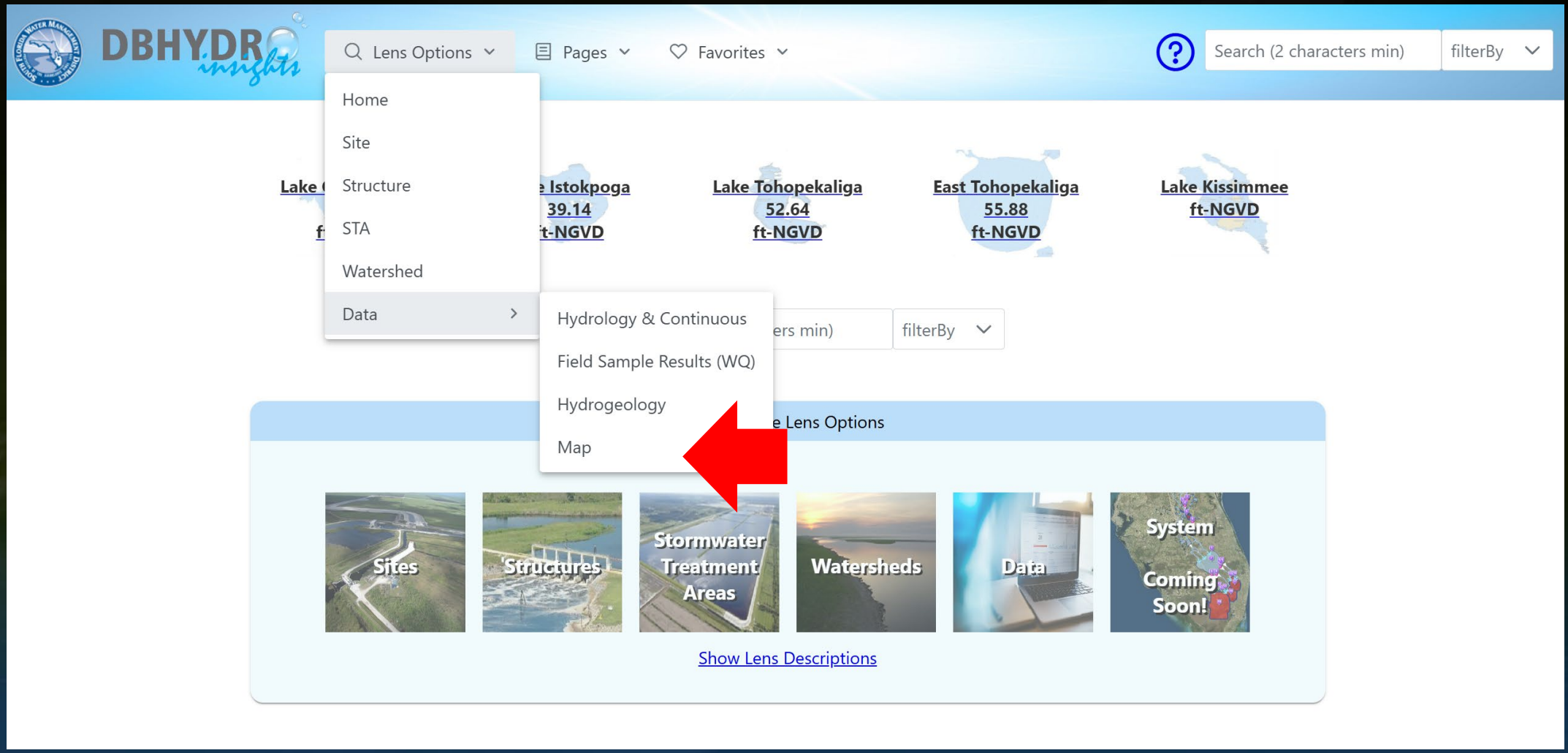
DBHydro Insights Homepage



DBHydro Insights Homepage



DBHydro Insights Homepage



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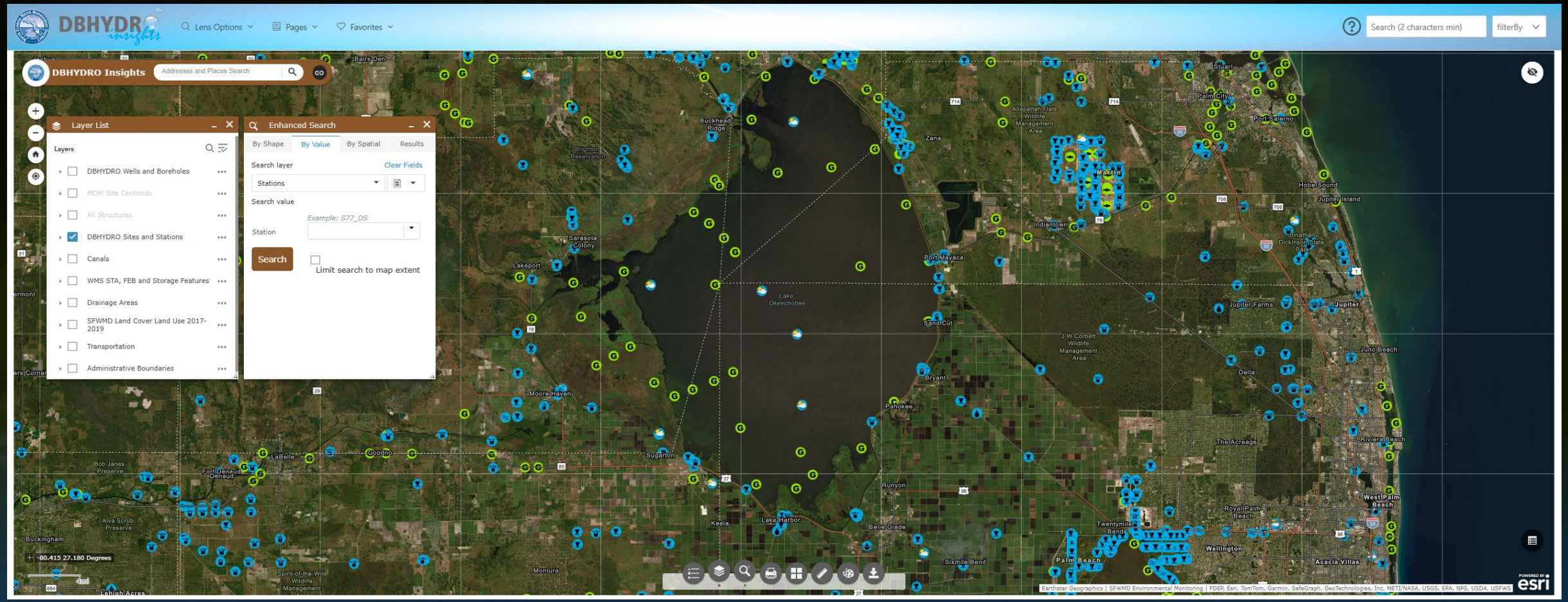
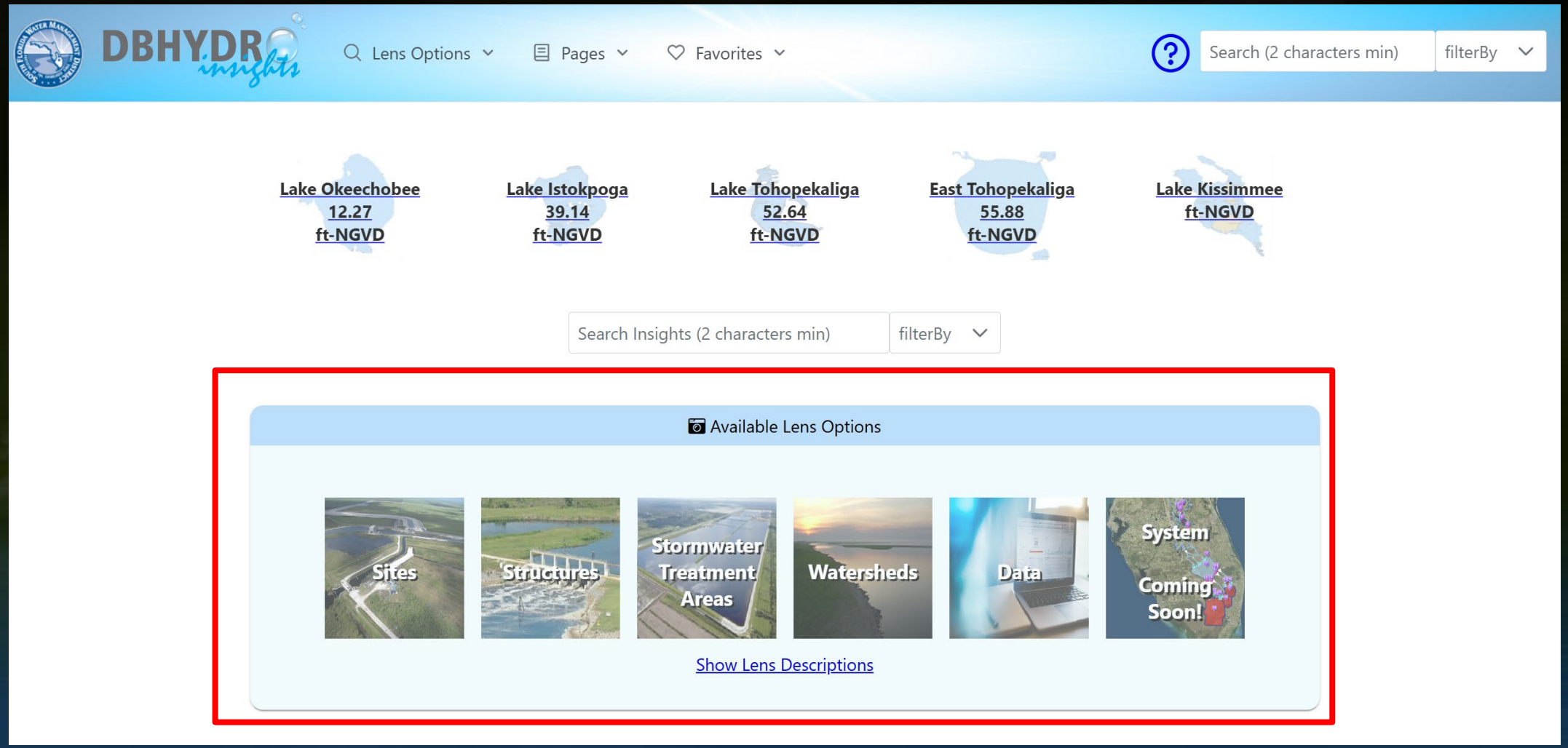


DBHydro Insights Homepage



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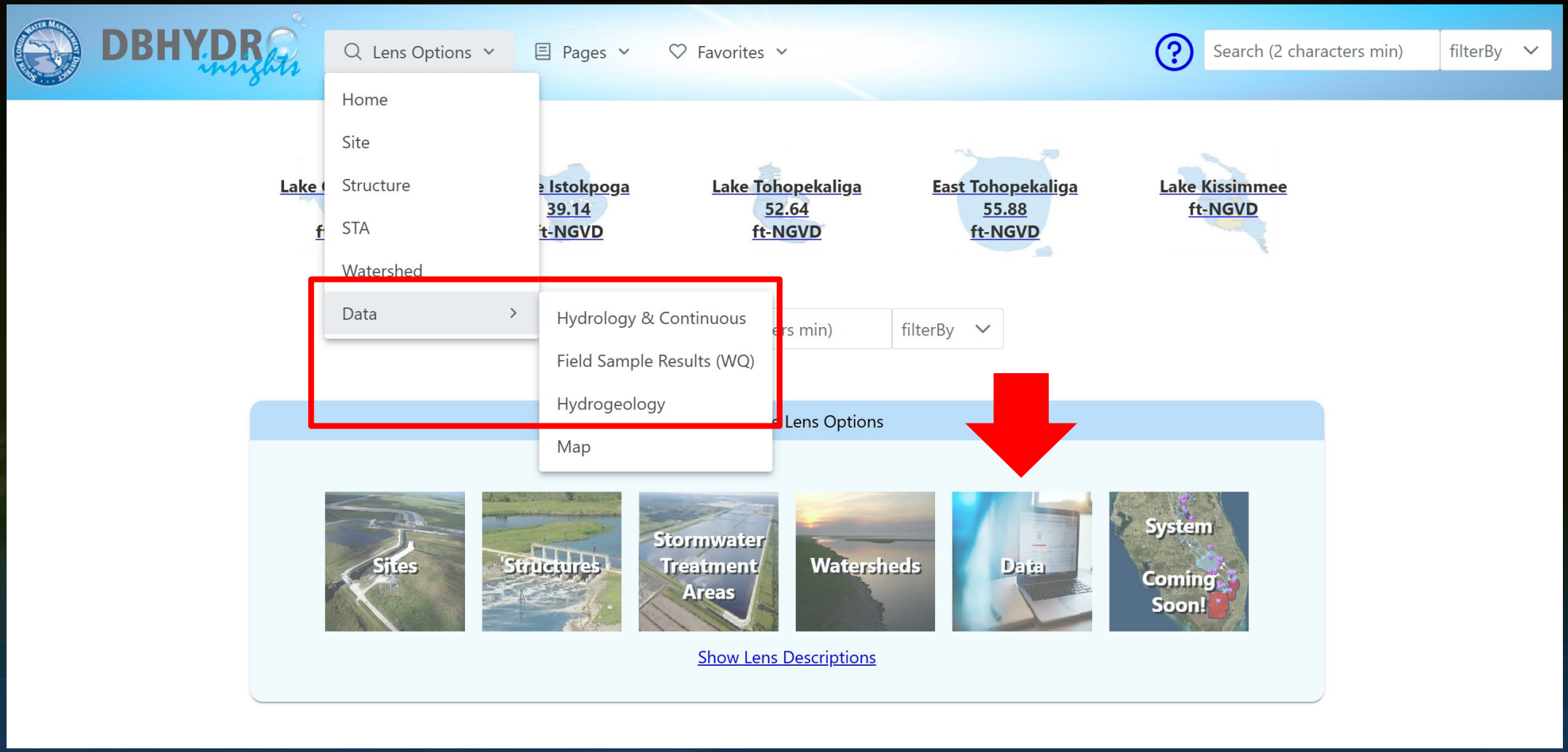
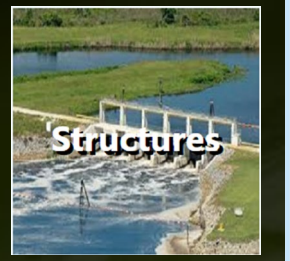
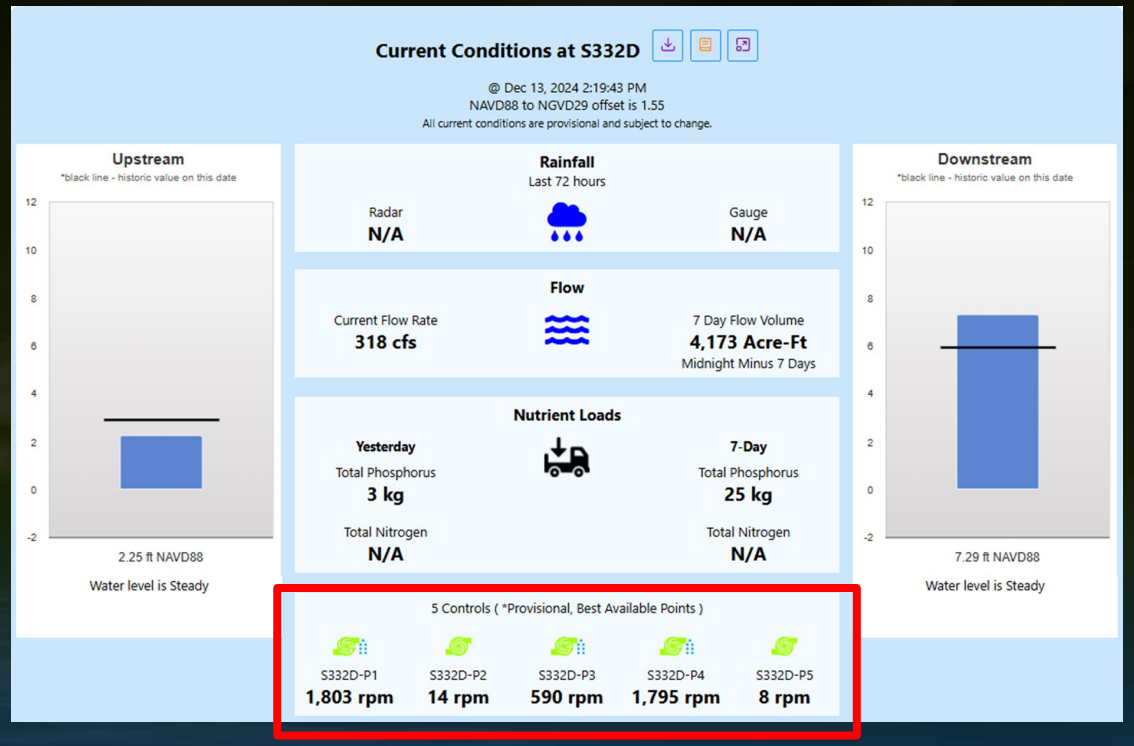


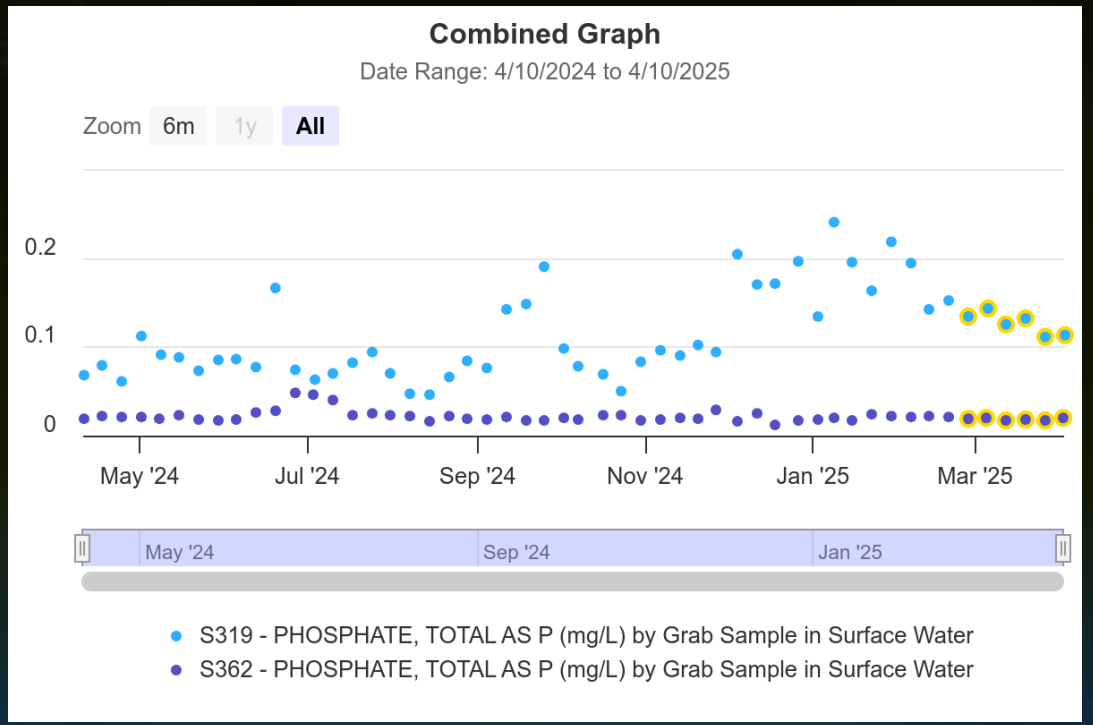
Lenses in DBHydro Insights



Current Conditions from the Site/Structure Lens



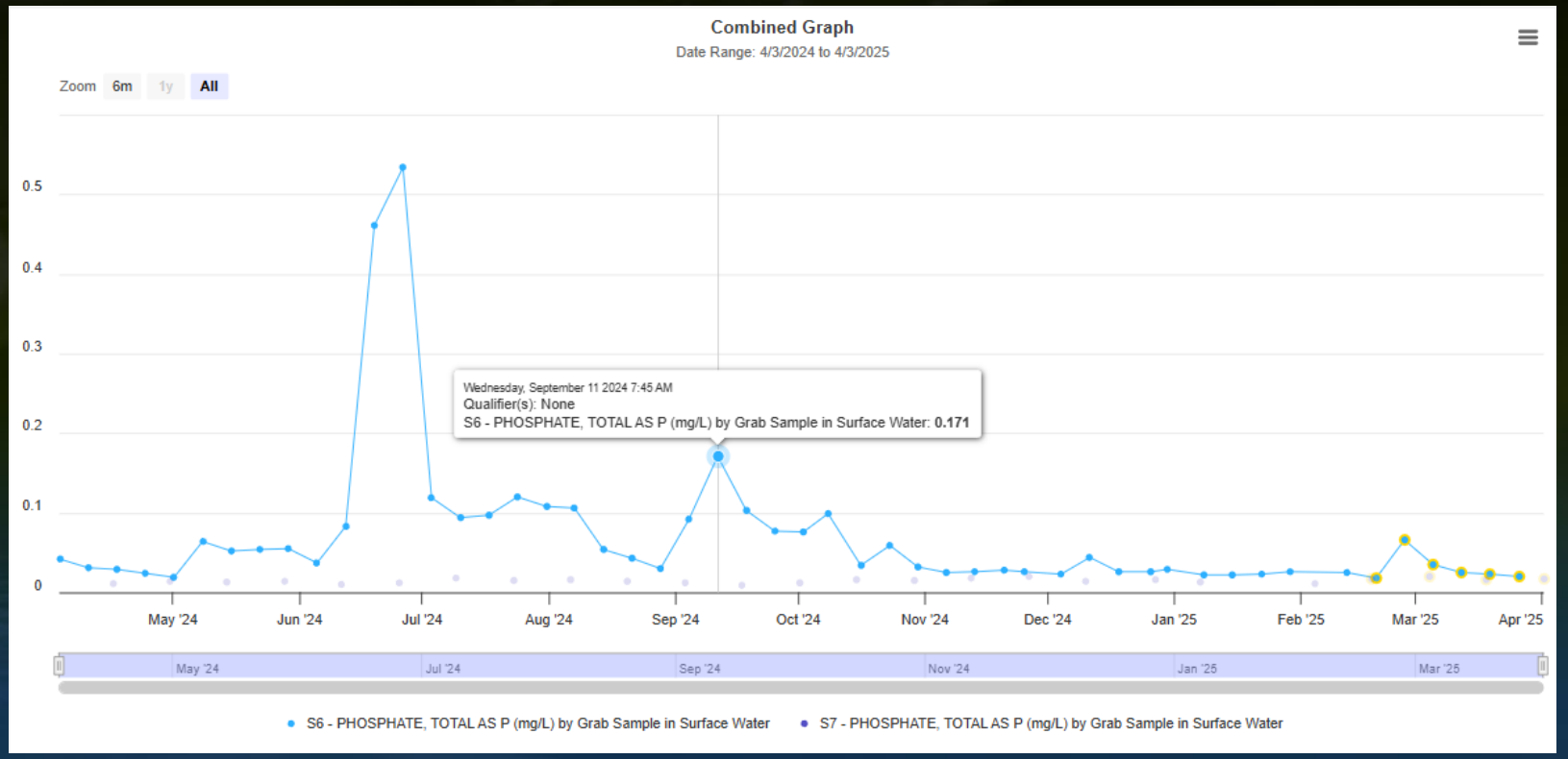
Combined Graph of Stage from Data Lens



Data Lens

- Interactive Visualizations:

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

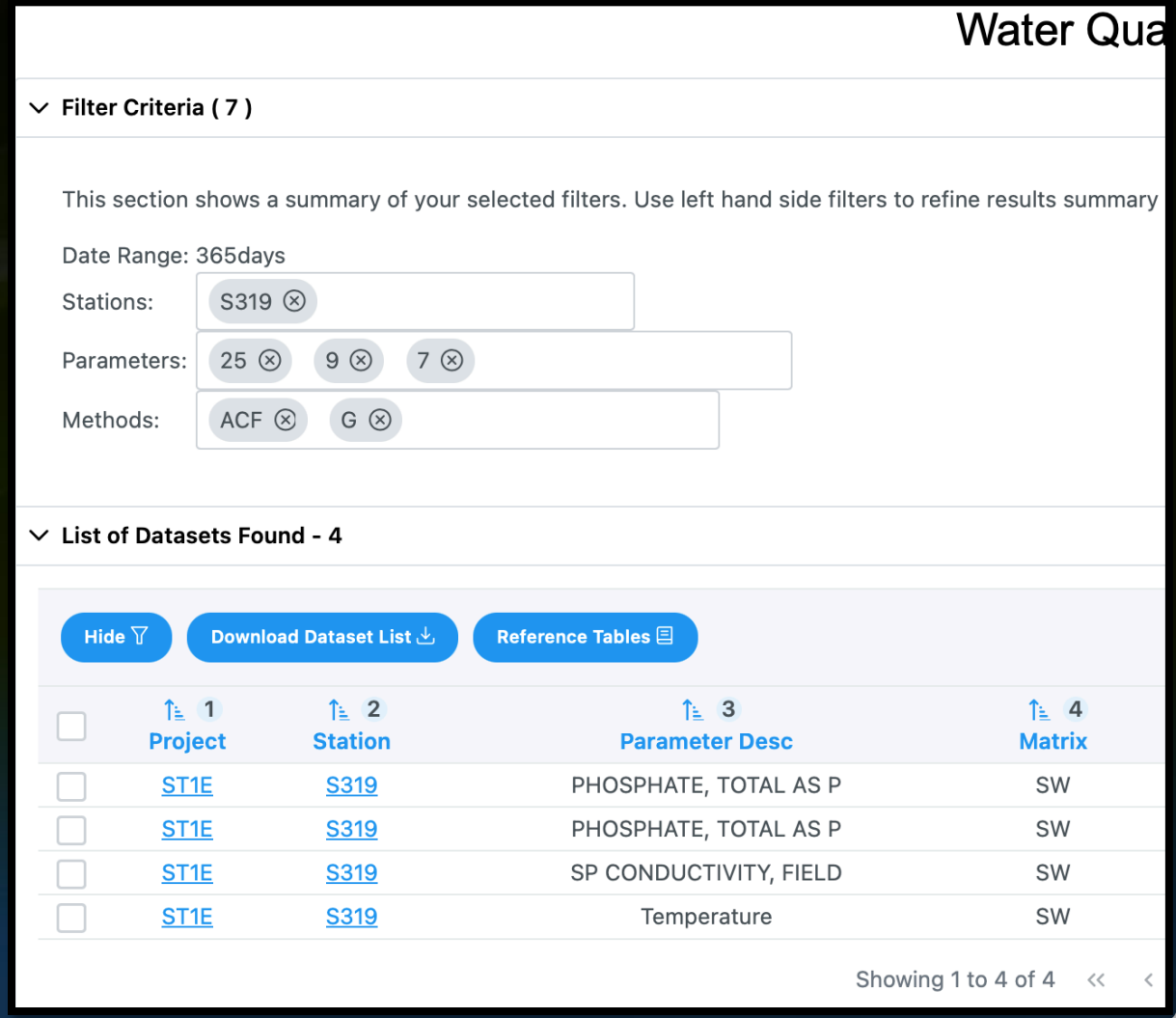


Data Lens

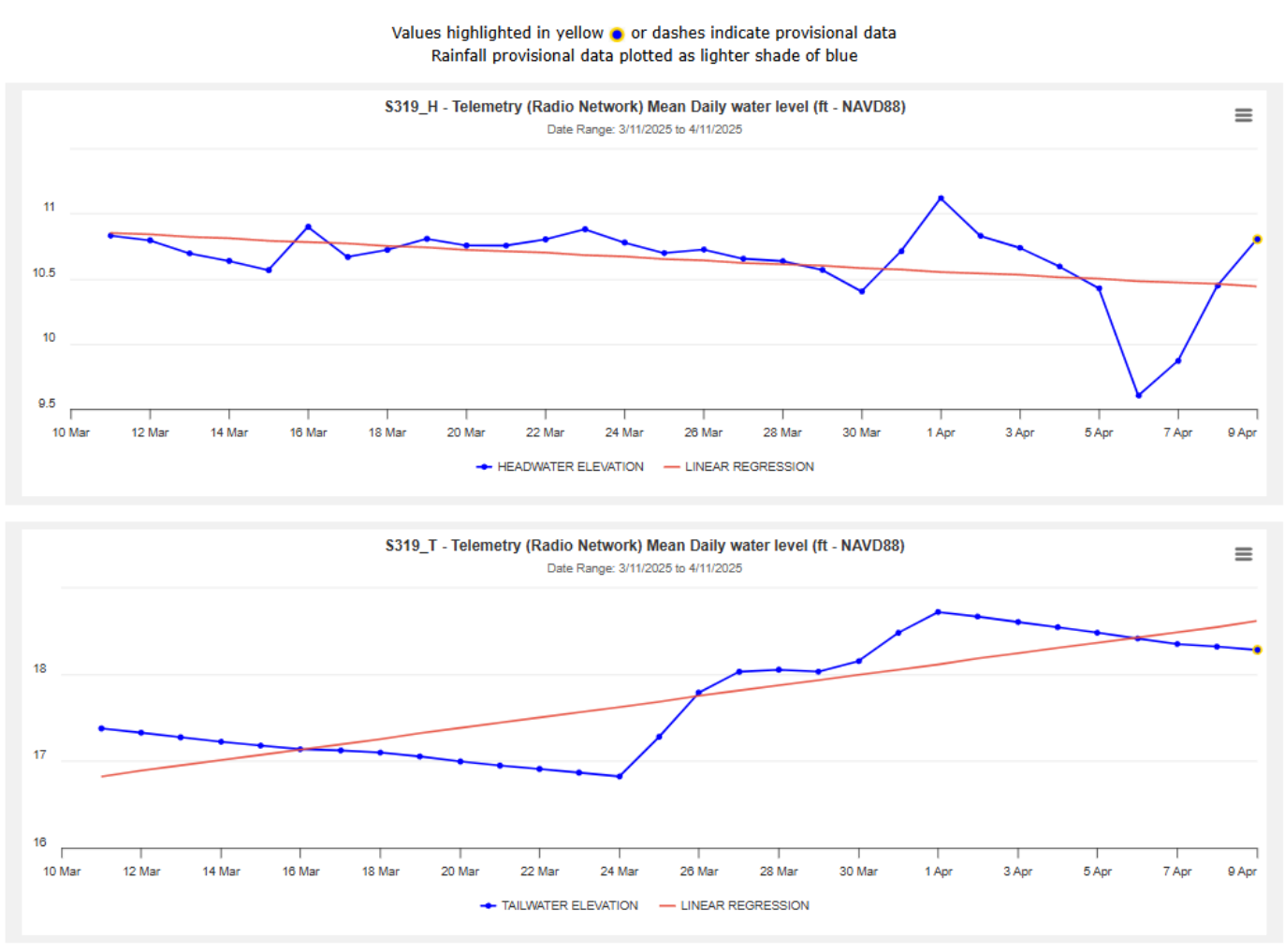
- Customizable Filters:

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

- Sort and re-order columns



Data Lens

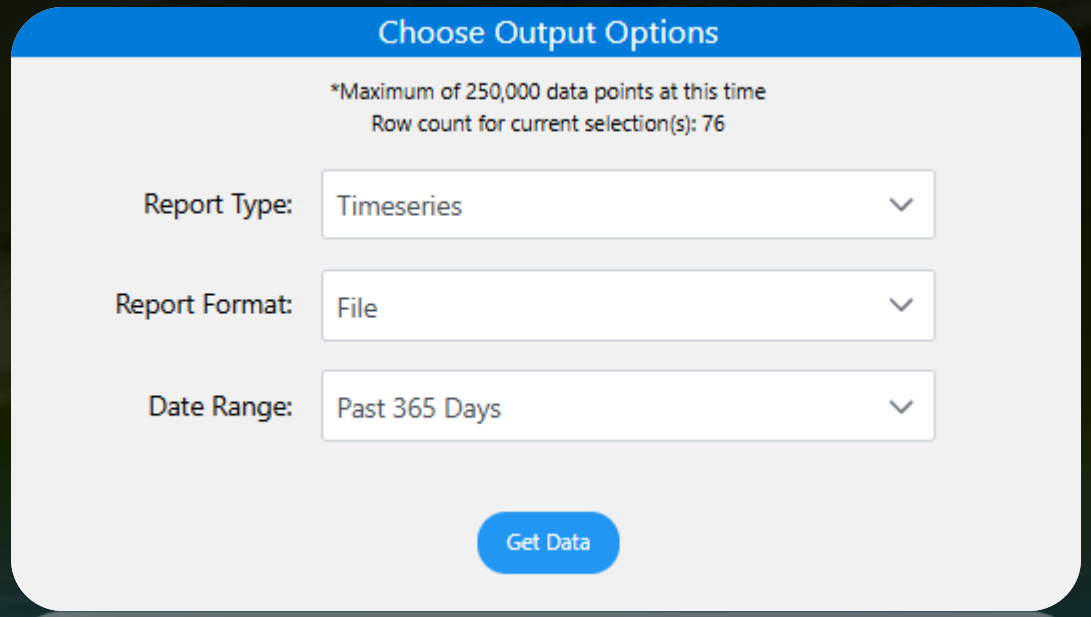


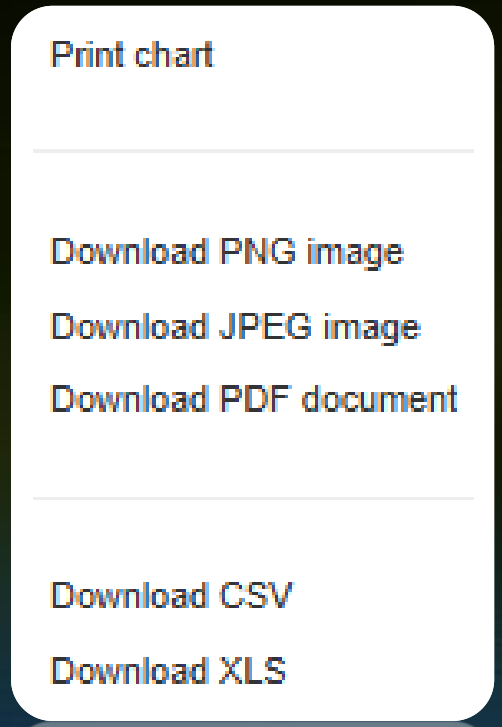
➢ Multiple Charting Options:

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

Data Lens

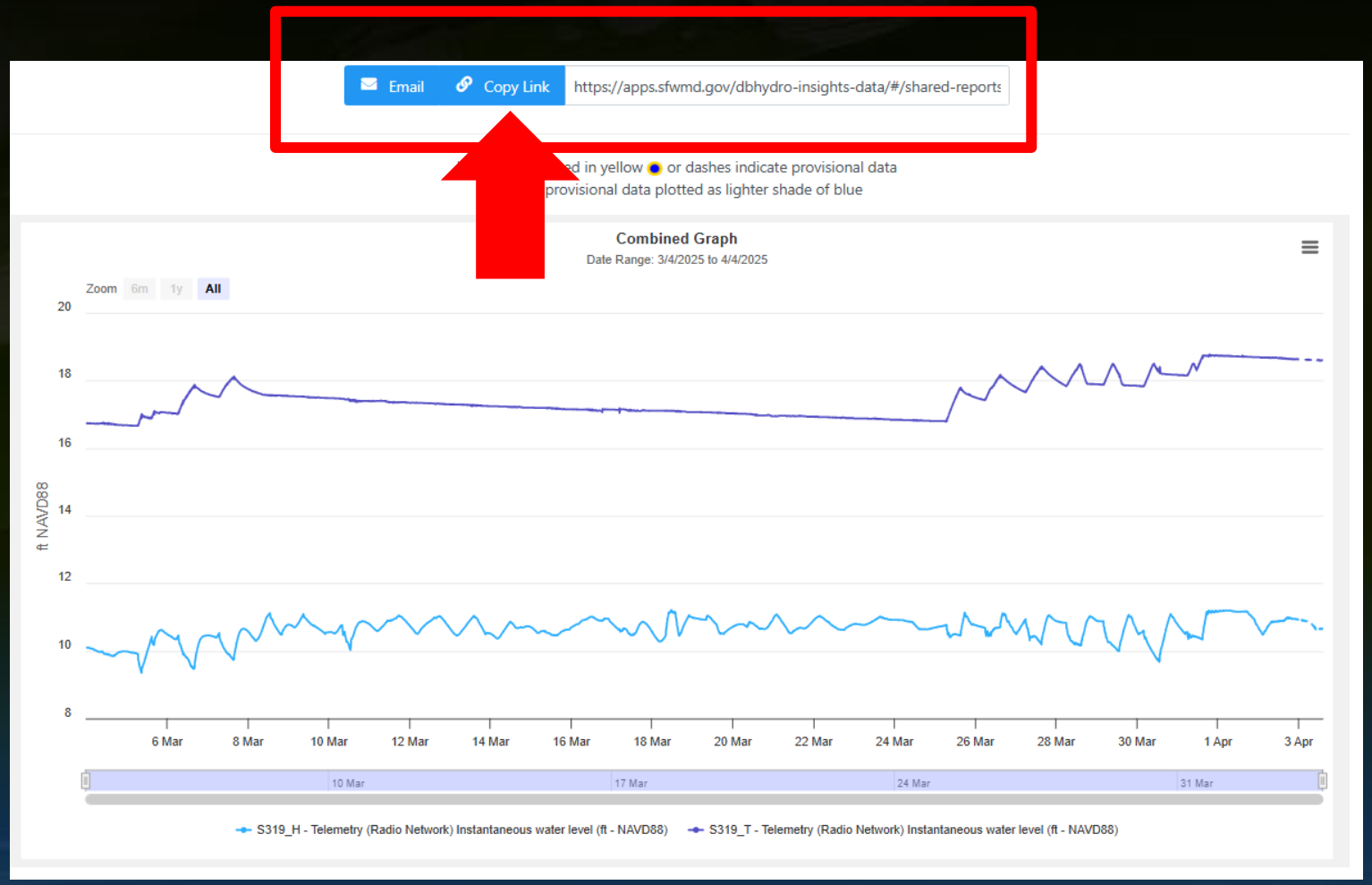
- **Export Options:** Download visualizations or filtered datasets (CSV, PNG, etc.)





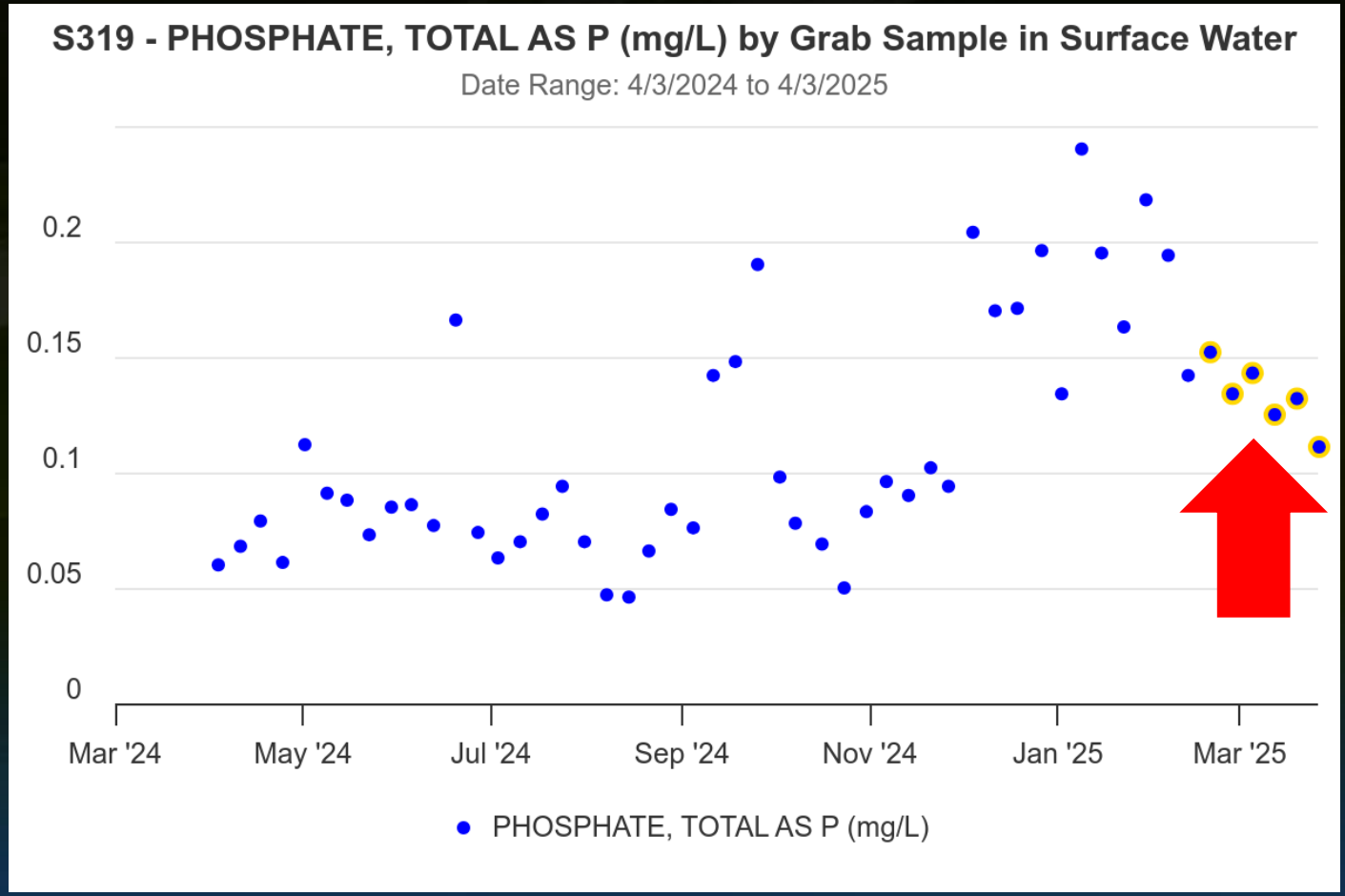
Data Lens

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



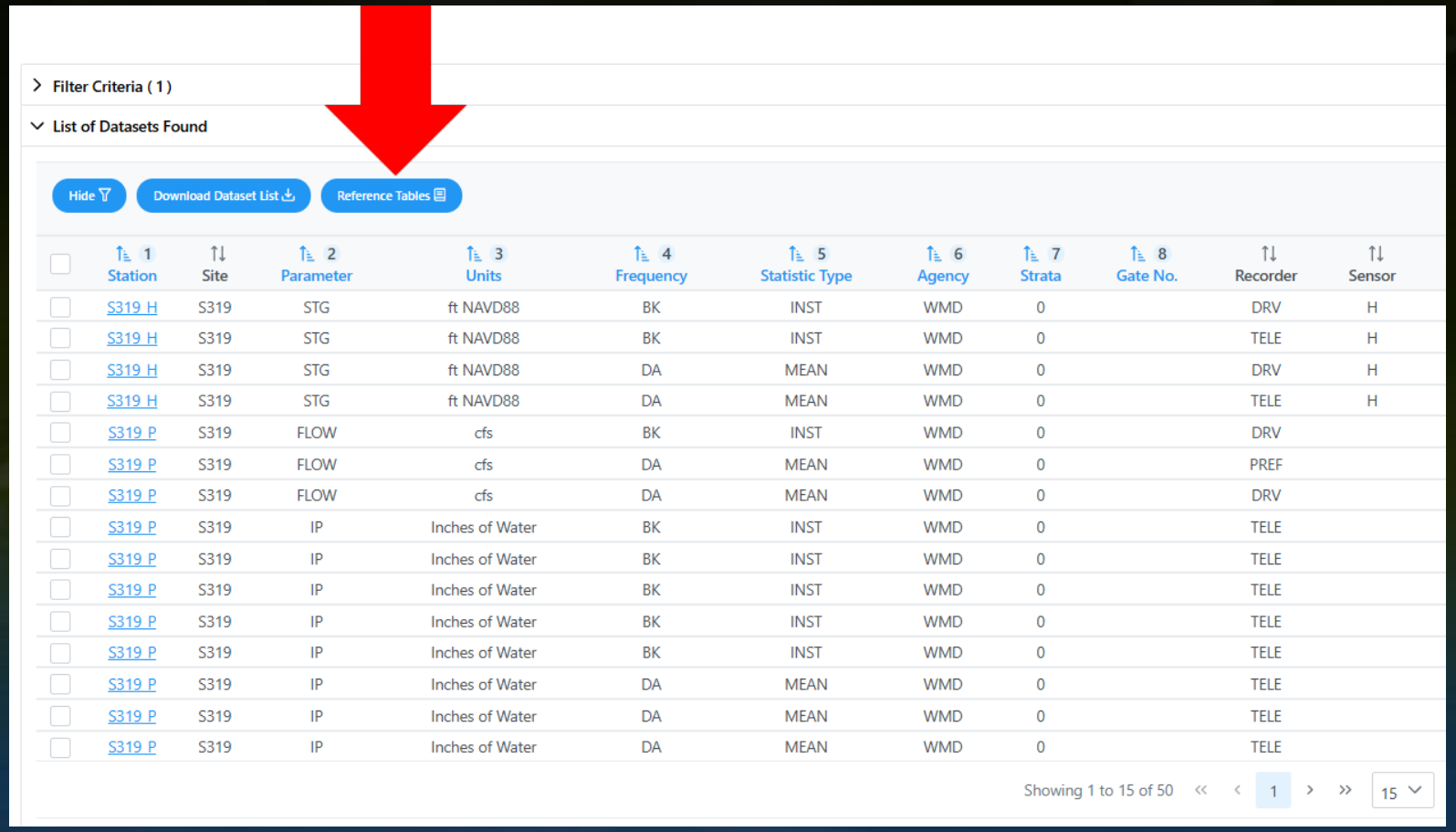
Data Lens

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



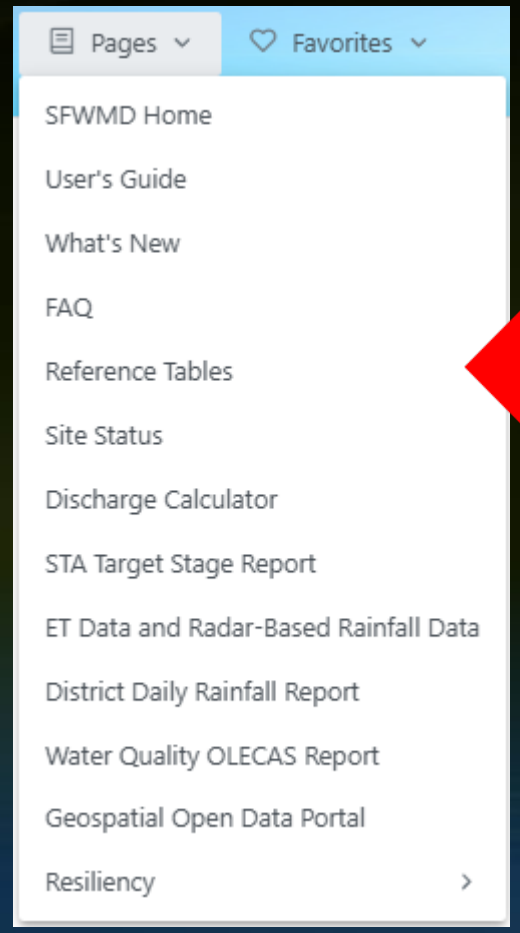
Data Lens

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



Station	Site	Parameter	Units	Frequency	Statistic Type	Agency	Strata	Gate No.	Recorder	Sensor
S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		DRV	H
S319 H	S319	STG	ft NAVD88	BK	INST	WMD	0		TELE	H
S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		DRV	H
S319 H	S319	STG	ft NAVD88	DA	MEAN	WMD	0		TELE	H
S319 P	S319	FLOW	cfs	BK	INST	WMD	0		DRV	
S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		PREF	
S319 P	S319	FLOW	cfs	DA	MEAN	WMD	0		DRV	
S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	BK	INST	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	
S319 P	S319	IP	Inches of Water	DA	MEAN	WMD	0		TELE	

Showing 1 to 15 of 50 1 15



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