

# ECOS

## True Elements Introduction

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March 28, 2023 – Arlington, VA

Surface Runoff

Pollution Sources

River & Stream Flows

Unregulated Contaminants





## Envision a future with a Water Intelligence platform that supports an integrated set of needs ...

- [Risk Management](#) for physical locations & infrastructure
- Prioritization or Placement of [Infrastructure Investments](#)
- Stakeholder or Shareholder [Reporting](#)
- [Regulatory](#) Compliance
- [Policy & Water Management](#) Programs
- Early Warnings for [Supply Chain Risks](#)
- [Sustainability](#) Program Measurement & Tracking
- Facilitation of [Collective Actions](#)
- and many more ...

# Water Resilience Starts With Water Intelligence

## Barges stranded as Mississippi River water levels reach critical low

Major shipping delays and backlog of vessels after region experiences lack of rainfall in recent weeks



This American Heritage paddlewheeler passes a tow moored on the Louisi



## ESG INVESTING

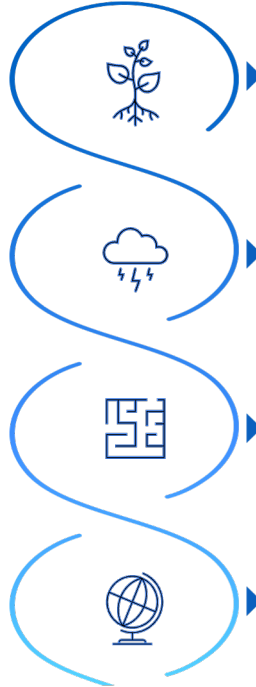
## Global Water Crisis Prompts Action by Institutional Investors

By Lauren Foster [Follow](#) Aug. 17, 2022 3:00 am ET



NATURE AND ENVIRONMENT | NORTH AMERICA  
**Flooded California looks for new ways to deal with drought**

A series of storms flooded California for weeks, and yet drought conditions persist. Could allowing flooding in the right places be a solution to water shortages?



## Everything depends on water

Freshwater is finite & increasingly more scarce; Global water use is 6X greater than a century ago & increasing

## Water crises are accelerating

90% of climate impacts are experienced through water<sup>1</sup> – too much water, not enough water or comprised quality


## Water is complex


Increasing momentum by regulators & investors creates a dual mandate to increase “water” disclosures


## All water is shared


Water-specific action dictated in the Infrastructure Investment and Jobs Act (IIJA) & Federal Sustainability Executive Order (EO14057)

# The Climate Crisis *IS* a Water Crisis

- 
- COP27 linked climate change & water; 1<sup>st</sup> time water was an official COP agenda item
  - Davos '23 featured 8 sessions on water in 2023; (1 in 2022 & none in 2021)
  - March 2023 the United Nations held the first water-exclusive conference in 46 years

- 
- 2021: **40%** YoY increase in public companies reporting water risk in SEC Filings <sup>2</sup>
  - **233** companies participated in CEO Mandate water disclosure program <sup>3</sup>
  - **>50** blue-chip companies made pledges to be “Water Positive” during 2022 <sup>4</sup>

- 
- ESG investment funds grow from **\$8T to \$30T** of capital flows by '30 <sup>5</sup>
  - Ceres' “Valuing Water Initiative” has 64 signatories that manage **\$9.8T** <sup>6</sup>
  - Digital Water Technology spending expected to reach **\$55B** by '30 <sup>7</sup>
- **\$6.3B** in forecasted investments into AI solutions

- 
- 22% of sustainability jobs now require Data Analysis skills<sup>8</sup>
  - 35% of executives say “Data Quality” is a top ESG concern<sup>9</sup>





What were the most significant outcomes from the UN 2023 Water Conference?

✓ Searching for: **UN 2023 Water Conference outcomes**

✓ Generating answers for you...

The key outcomes from the UN 2023 Water Conference are derived from web search results. They include:

- [The adoption of the Water Action Agenda, a plan containing almost 700 commitments to protect and manage water resources for sustainable development<sup>1</sup>.](#)
- [The mobilization of billions of dollars from governments, businesses and civil society to advance the water agenda, a dealmaker for accelerating progress on all other SDGs<sup>2</sup>.](#)
- [The reaffirmation of the objectives and actions of the Water Action Decade 2018-2028, a global initiative to enhance cooperation and innovation on water issues<sup>34</sup>.](#)
- [The recognition of water as a human right, a global common good and a catalyst for peace and security<sup>156</sup>](#)



# Water Resilience Starts With Water Intelligence



- We Aggregate, Normalize & Process water data
- We Index Water Quality and Climate Risk to make understanding it simple
- We uniquely Forecast Water Quality and Climate Risk
  - Short Term Quality Forecasts (1 – 3 weeks)
  - Long Term Climate Resiliency (50+ Years)

*Thank You!*

Questions?



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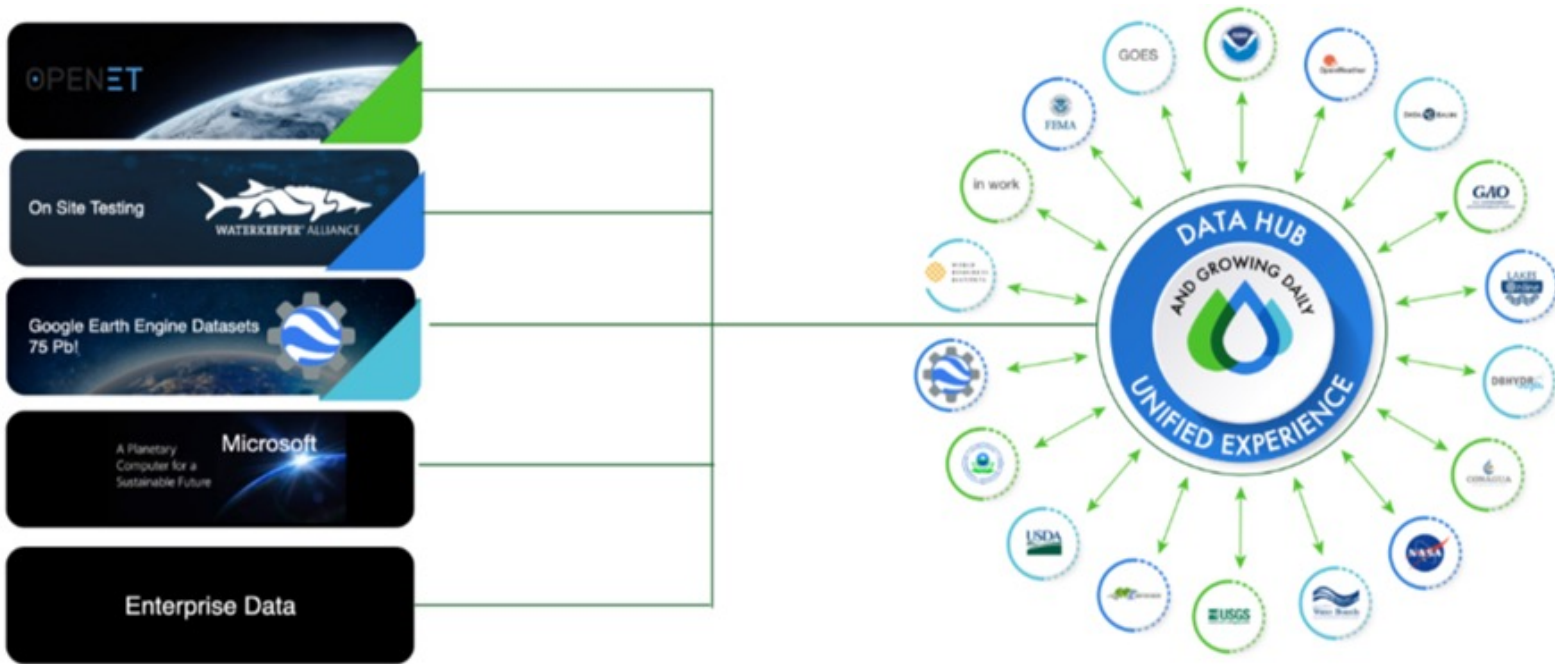
4850 Tamiami Trail North  
Suite 300 Naples, FL 34103



# We See Water Differently: *Universal Water Data Platform*

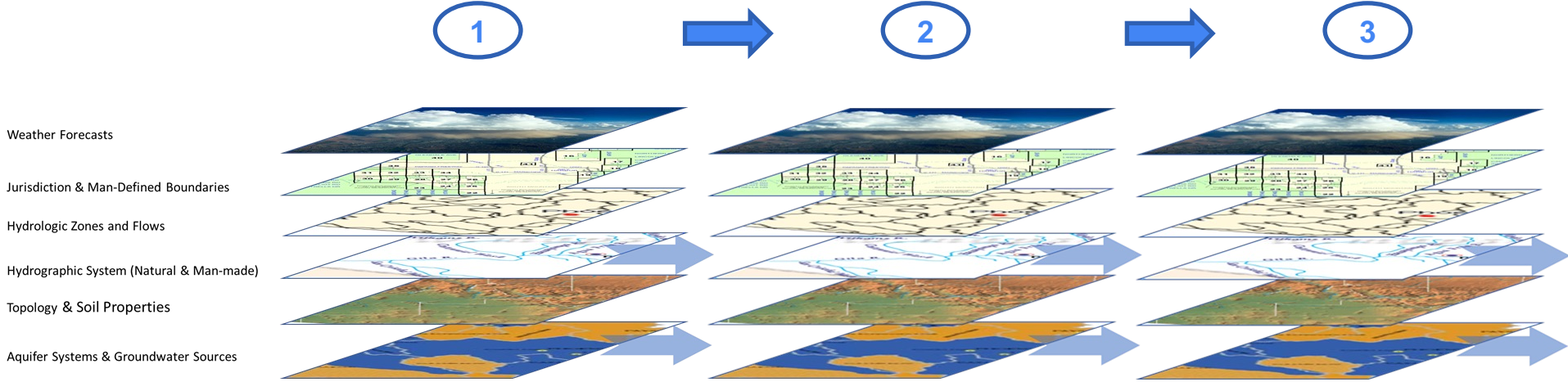
## Private Data / Live Sensors

## Public Data / Live Sensors / Live Pipelines via API





# We Trace Water from the Raindrop to the Sea



- A mesh-based digital twin representative of the entire USA was built to model physical transfers between hydrologic units on multiple layers

→ In place for the entire USA – expanding globally next

- Metrics then characterize the current state & forecast the future state in each hydrologic unit (watershed) on a 24 or 6 hr cycle

- The results is the ability to reflect localized :
  - Water Availability
  - Water Quality
  - Socio-economic Impacts
  - Climate Change

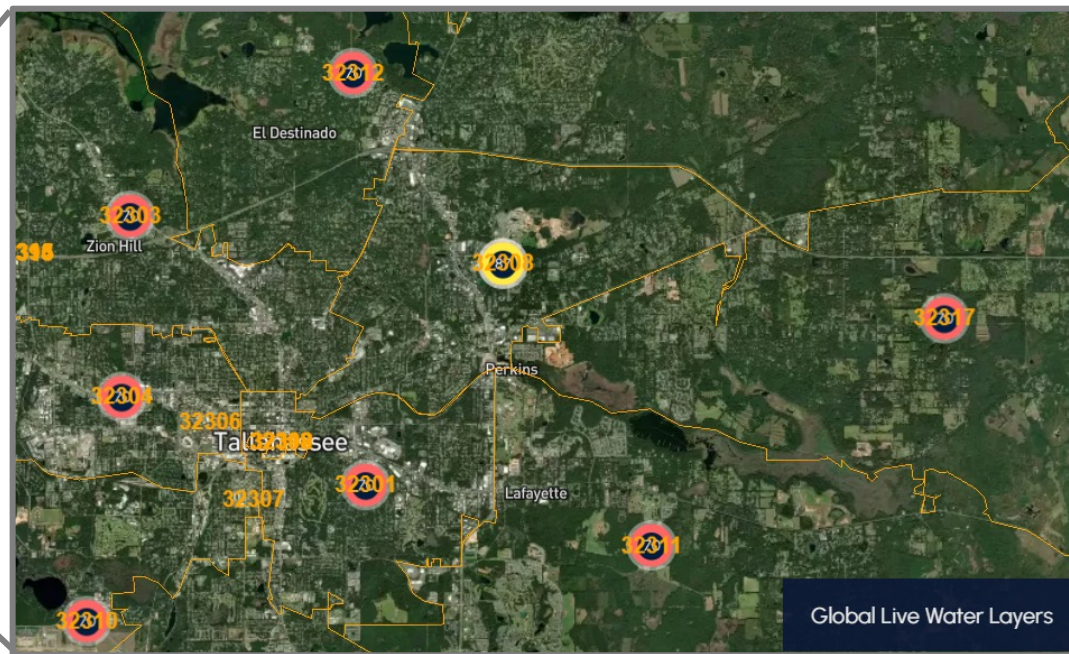
***Which come to life in our visualization platform***

# Water Resilience Starts With Water Intelligence



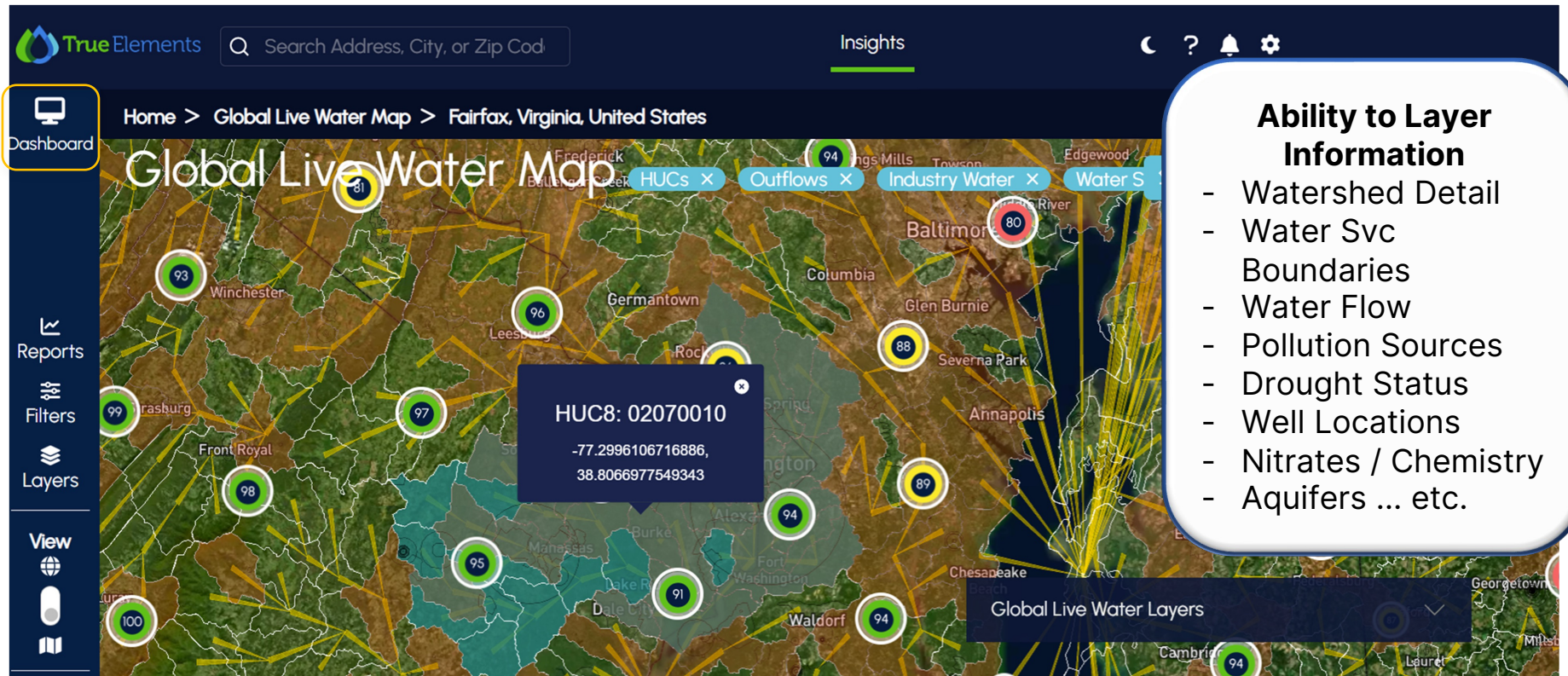
# Water Resilience Starts With Water Intelligence

**Drinking Water  
"Scoring" Reimagined**





# Water Resilience Starts With Water Intelligence



# Water Resilience Starts With Water Intelligence



Dashboard

## PFAS Environmental

PFAS > PFAS Environmental > Fairfax, Virginia, United States

Reports

Filters

Layers

View



### Digital Watershed Intelligence

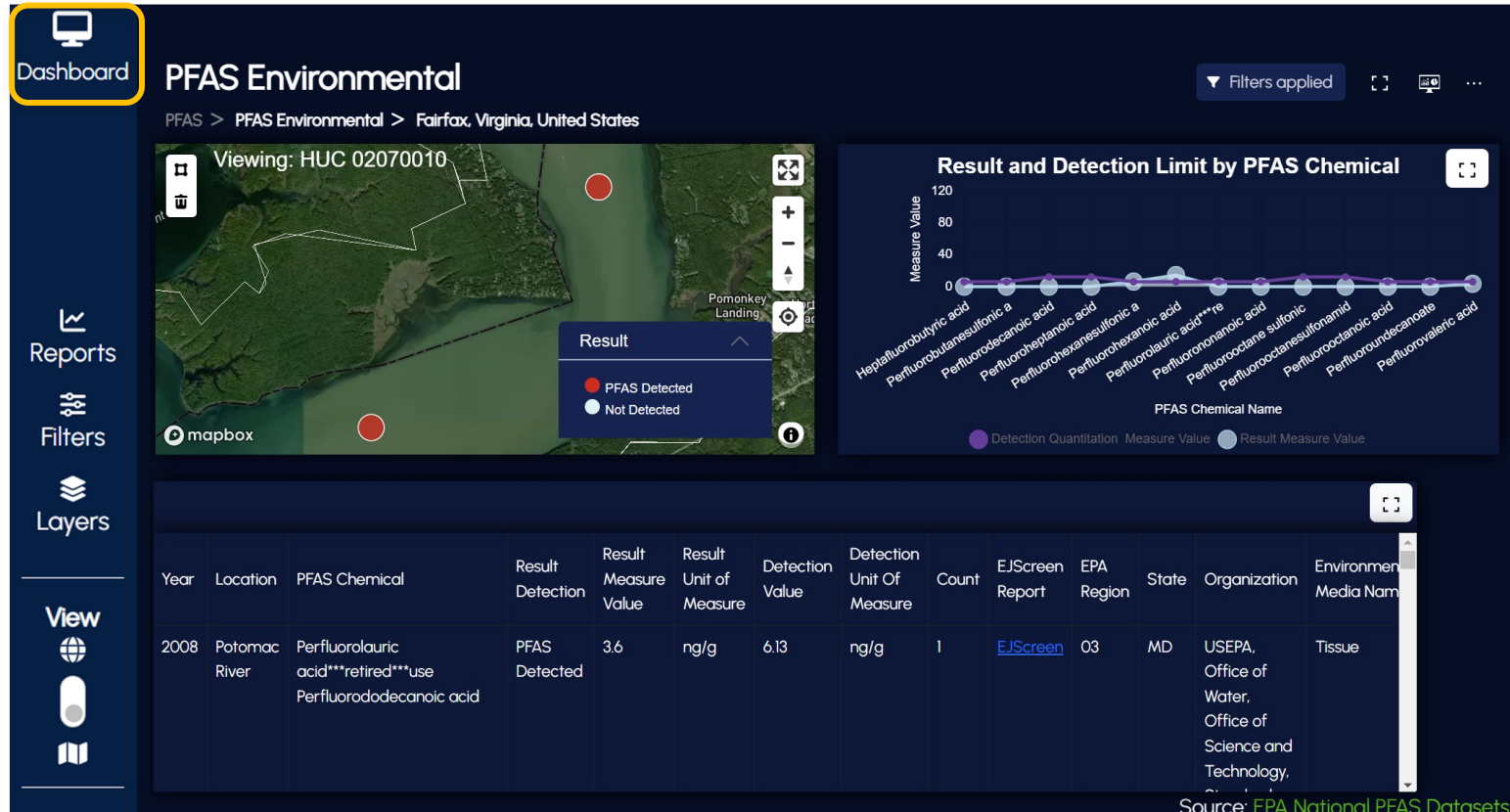
- Discharge Reporting
- USGS Live Sensors
- EPA Permit Holders
- Water Flow Rate
- Storm & Ag Water Quality
- Superfund Sites
- Hazardous Waste Proximity
- Wastewater Discharge

### Cross Reference with Environmental Justice Datasets

- Demographics
- Unemployment
- Income Levels
- People of Color
- Education Levels
- Etc



# Water Resilience Starts With Water Intelligence



# The Deep, Clear Water Intelligence you Need For the Solutions You Want



# We See Water Differently



**Translate Infrastructure  
Maps to Risk Reporting  
with Scenario Analysis**

# The Deep, Clear Water Intelligence you Need For the Solutions You Want

- ✓ Climate risk reporting that streamlines disclosure processes
- ✓ Site specific watershed health assessment to feed infrastructure decision-making
- ✓ Site(s) analysis to shorten the cycle time of information gathering
- ✓ Customized reporting to fit your specific workflow







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