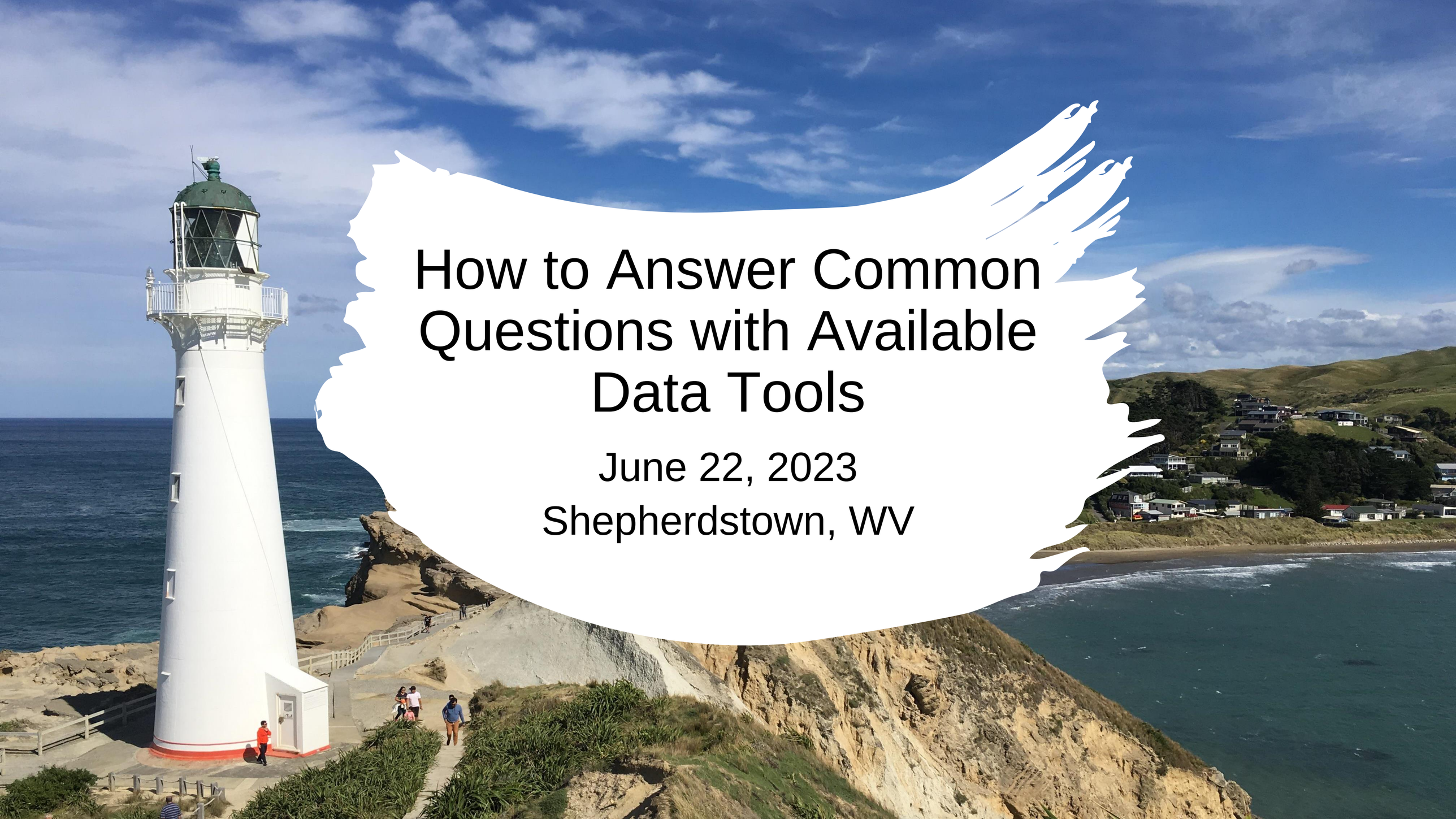


How to Answer Common Questions with Available Data Tools

June 22, 2023

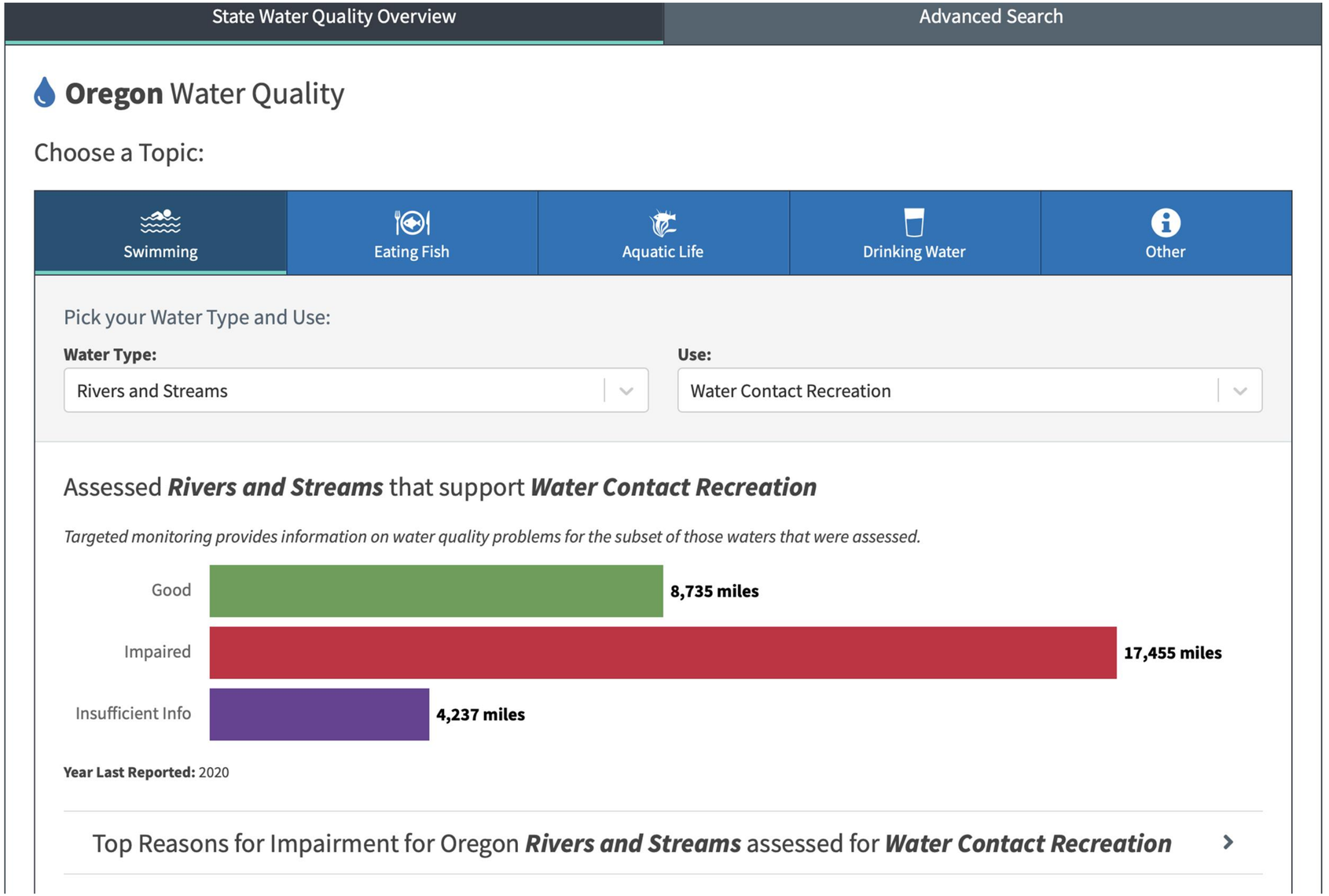
Shepherdstown, WV

Available Data Tools

	Easy to Use	Need ATTAINS Login	Available Snapshots	Refresh Frequency	Available Scales
How's My Waterway	Yes	No	Org Final and Later	Approximately Monthly with the Geospatial Service	HUC12, State, and Tribe
ATTAINS Reports	Yes	Yes	All (If State/Tribal User) Org Public Comment and Later (If EPA User)	Instantaneous (If State/Tribal User) Instantaneous Upon Promotion (If EPA User)	State and Tribe
ATTAINS Services	Depends on Comfort with REST Services	No	Org Public Comment and Later	Instantaneous Upon Promotion	State and Tribe
ATTAINS Geospatial Service	Depends on Comfort with GIS Software	No	Org Final and Later	Approximately Monthly	National

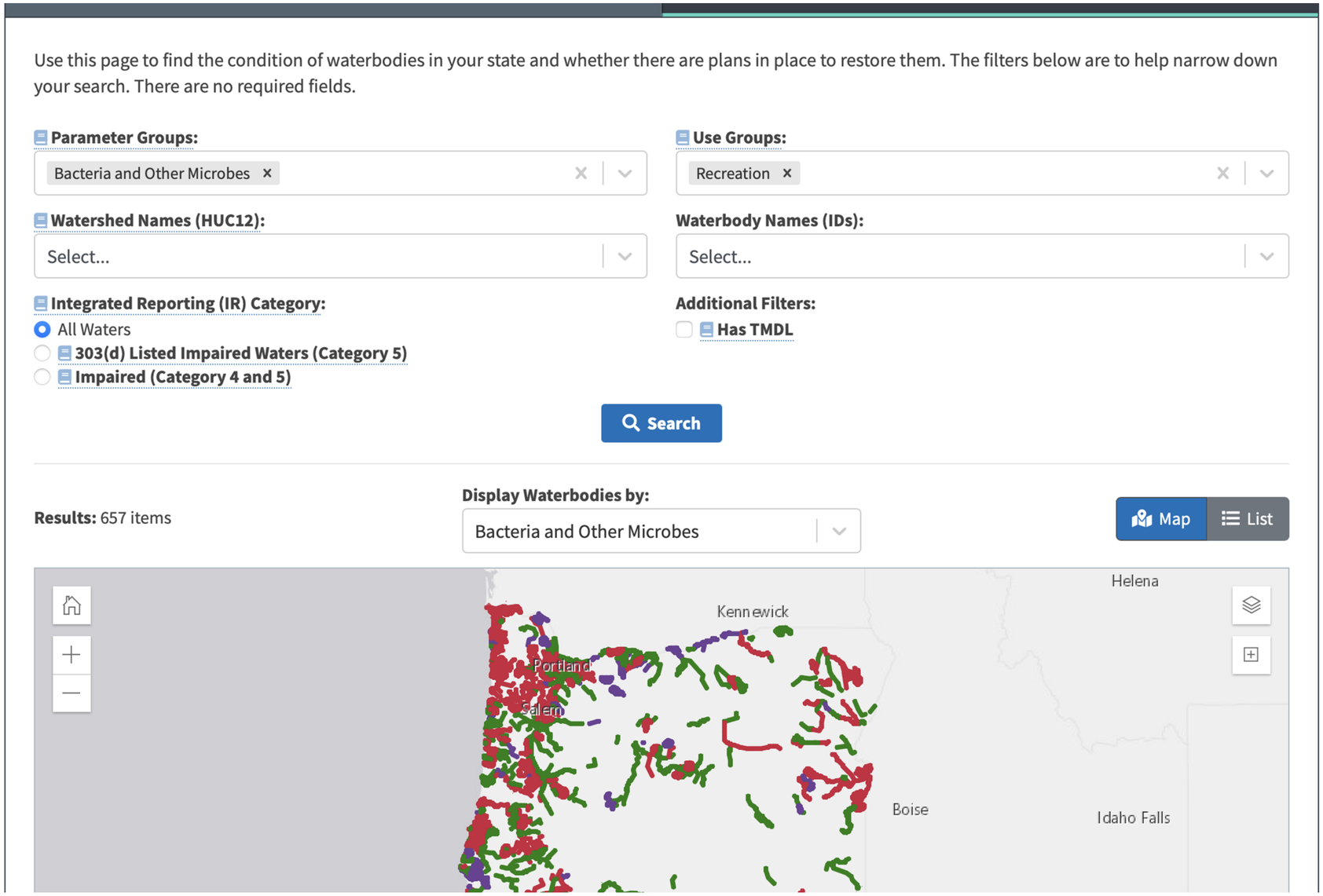
How many stream miles in Oregon are impaired for swimming use?

Use How's My Waterway State Page



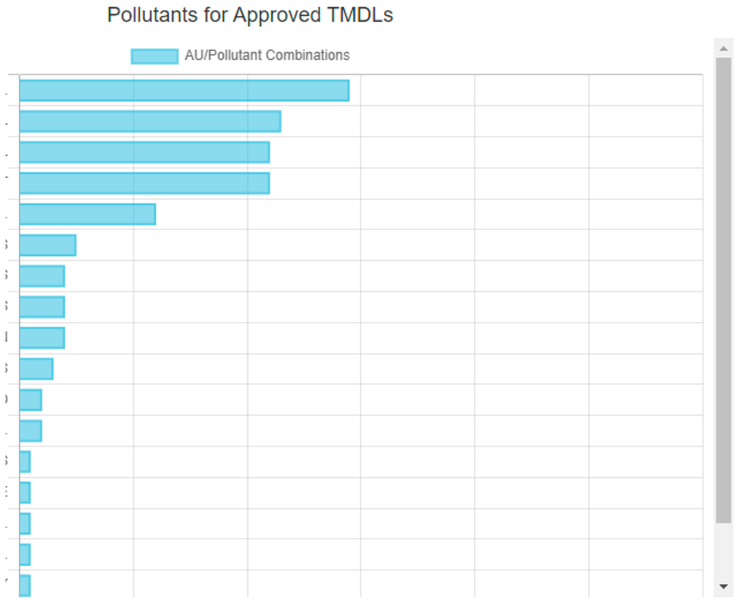
Where are the waters in Oregon that are impaired for recreation use due to pathogens?

Use How's My Waterway State Advanced Search



What are all the TMDLs in Maine?

Use the Actions Report in ATTAINS



Pollutants for Approved TMDLs Summary

Pollutant	AU/Pollutants	AU/Addressed Parameters
POLLUTANTS IN URBAN STORMWATER	29	57
PHOSPHORUS, TOTAL	23	28
NITROGEN, TOTAL	22	27
SEDIMENT	22	27
ESCHERICHIA COLI (E. COLI)	12	12

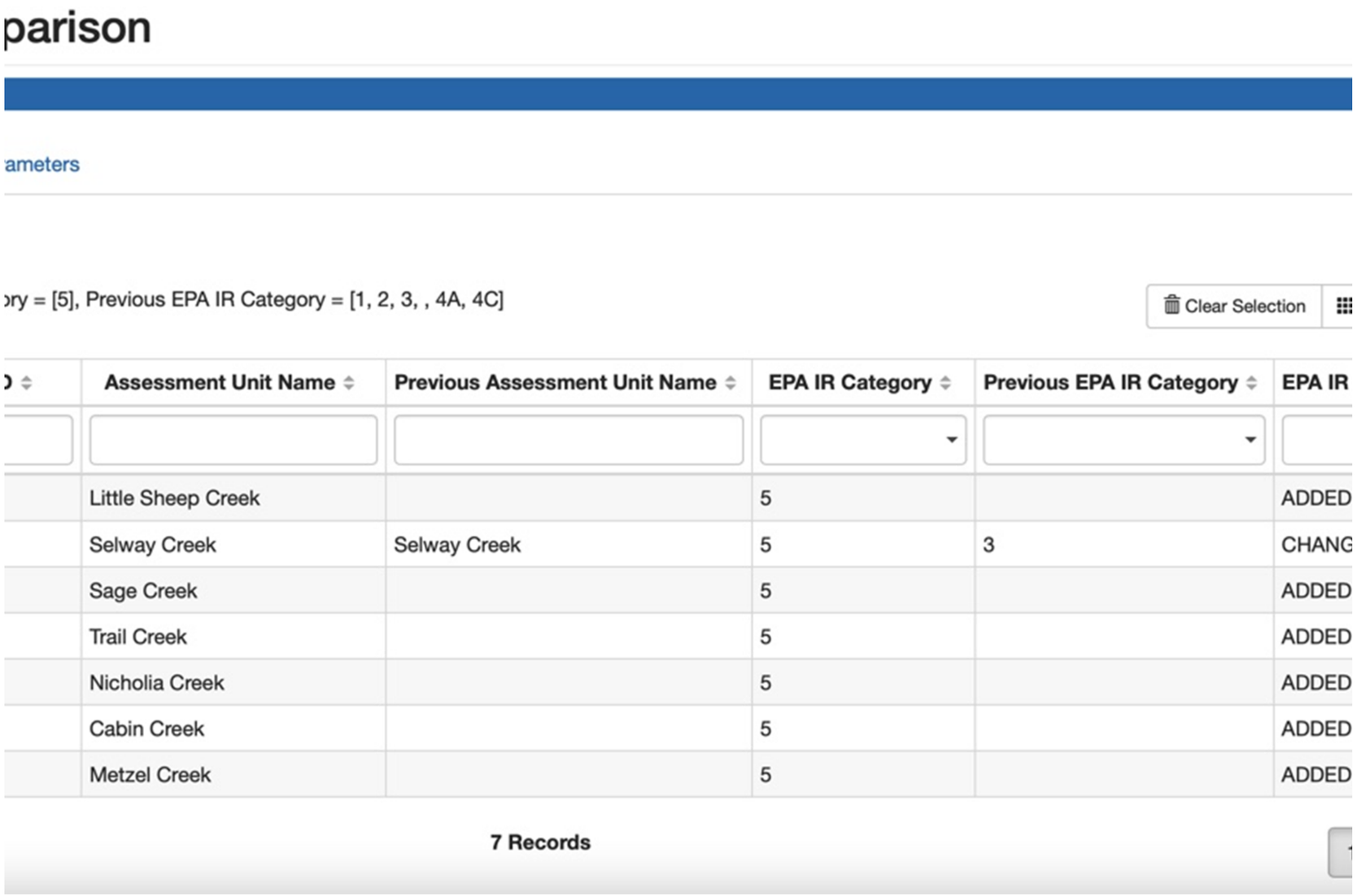
« 1 2 3 4 »

17 Records

ment Unit Name	Action ID	Action Name	Action TMDL Date	Action Status	EPA FY	Pollutant	Source Type
0779	31577	TRAFTON LAKE	Oct 26, 2006	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source
1820	31665	MONSON POND	Nov 28, 2006	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source
1674	30679	CROSS LAKE	Sep 28, 2006	EPA Final Action	2006	ALGAL BLOOMS	Nonpoint source
1776	32030	ECHO LAKE	Feb 05, 2007	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source

Which waters are new to category 5 this cycle in Montana?

Use the Cycle Comparison Report in ATTAINS



How many TMDL Projects were approved so far in FY 2023 in Region 7?

Use ATTAINS Services

Base URL for Actions service

State code indicator

Indicates that a number should be returned instead of a list of TMDLs

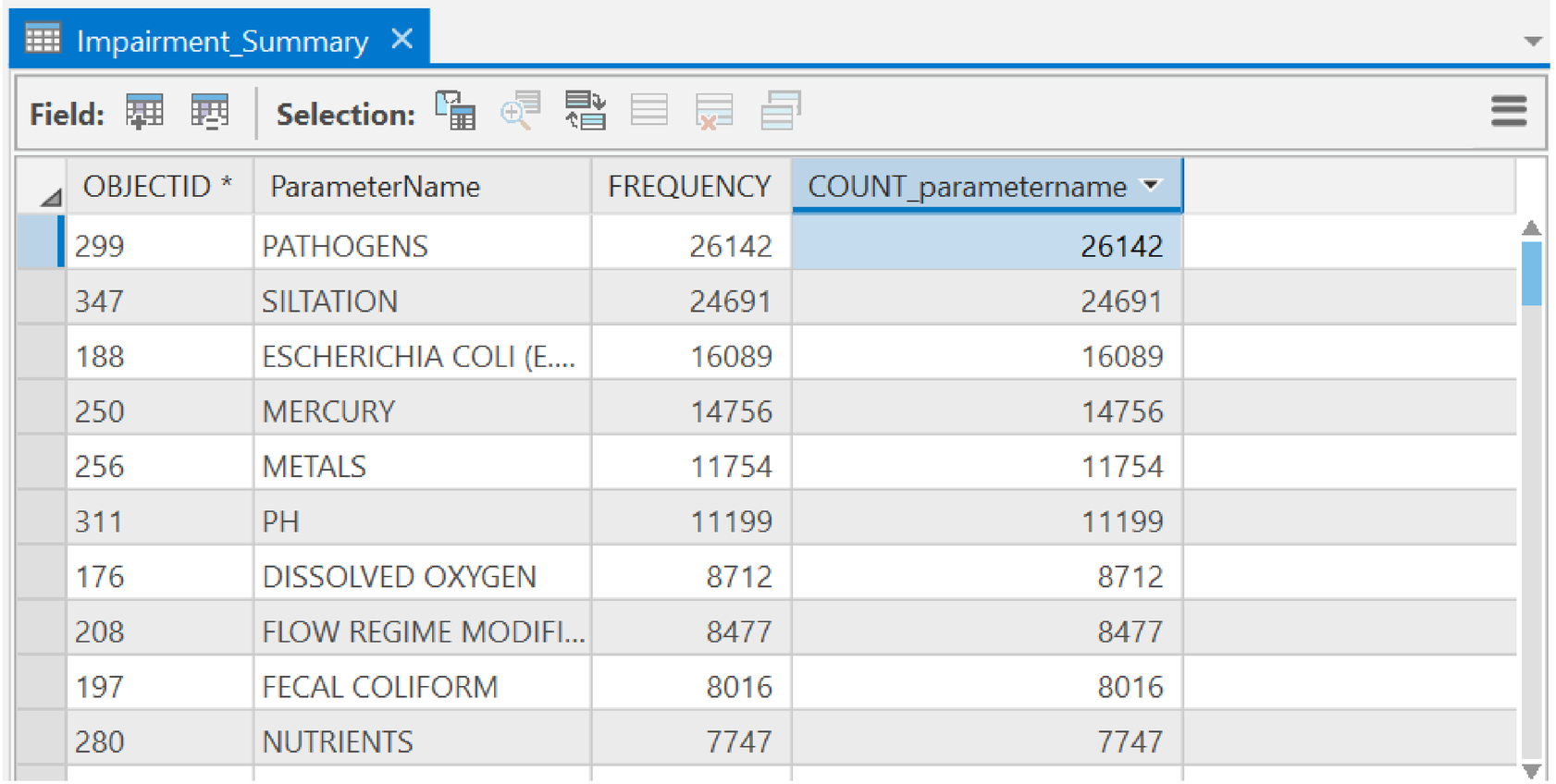
https://attains.epa.gov/attains-public/api/actions?actionTypeCode=tmdl&stateCode=KS&tmdlDateLaterThan=2022-10-1&returnCountOnly=Y

Action type code indicator

Indicates TMDL was approved in FY 2023


```
{
    "items": [],
    "count": 1
}
```

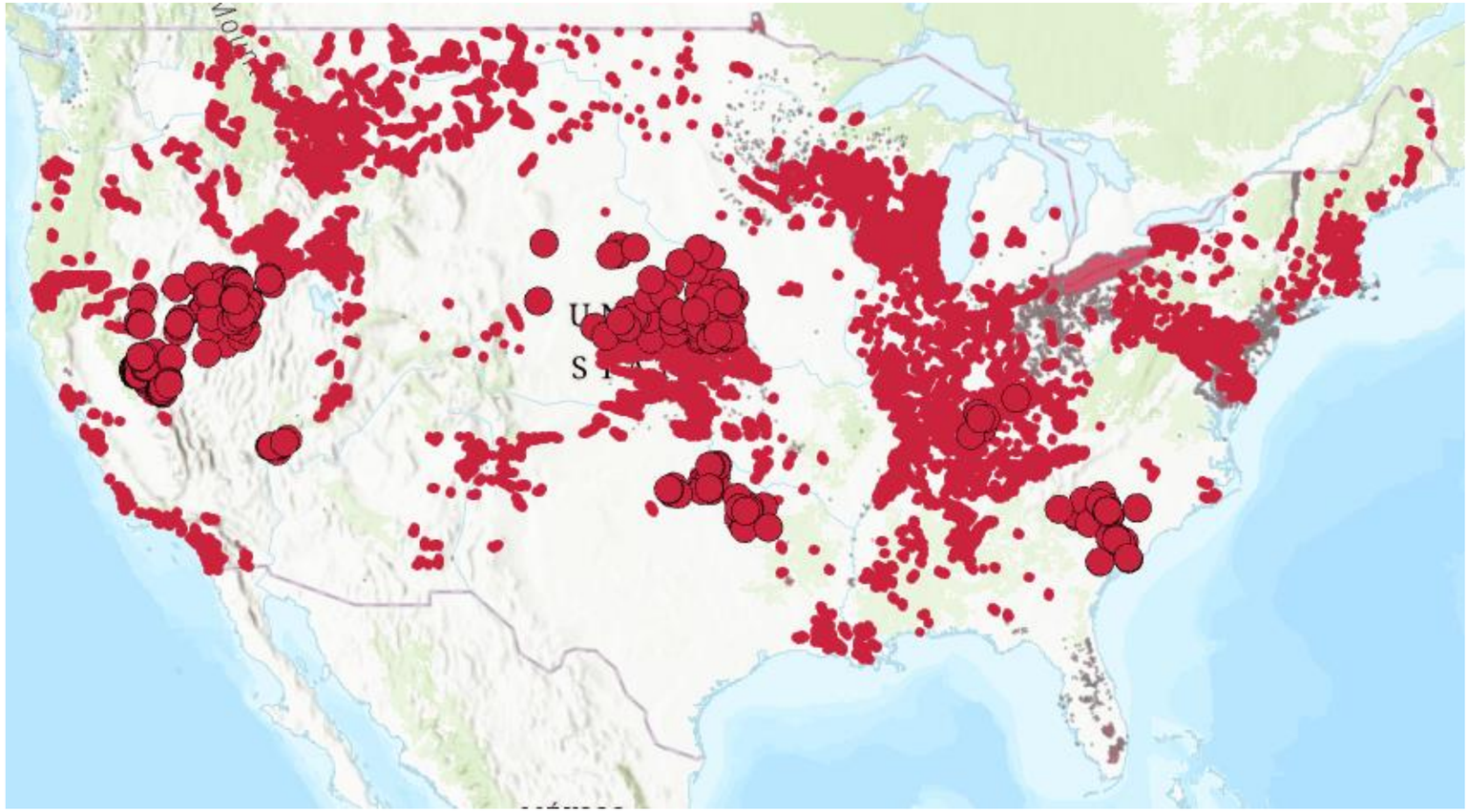
What is the most commonly reported impairment nationally?



OBJECTID *	ParameterName	FREQUENCY	COUNT_parametername
299	PATHOGENS	26142	26142
347	SILTATION	24691	24691
188	ESCHERICHIA COLI (E....	16089	16089
250	MERCURY	14756	14756
256	METALS	11754	11754
311	PH	11199	11199
176	DISSOLVED OXYGEN	8712	8712
208	FLOW REGIME MODIFI...	8477	8477
197	FECAL COLIFORM	8016	8016
280	NUTRIENTS	7747	7747

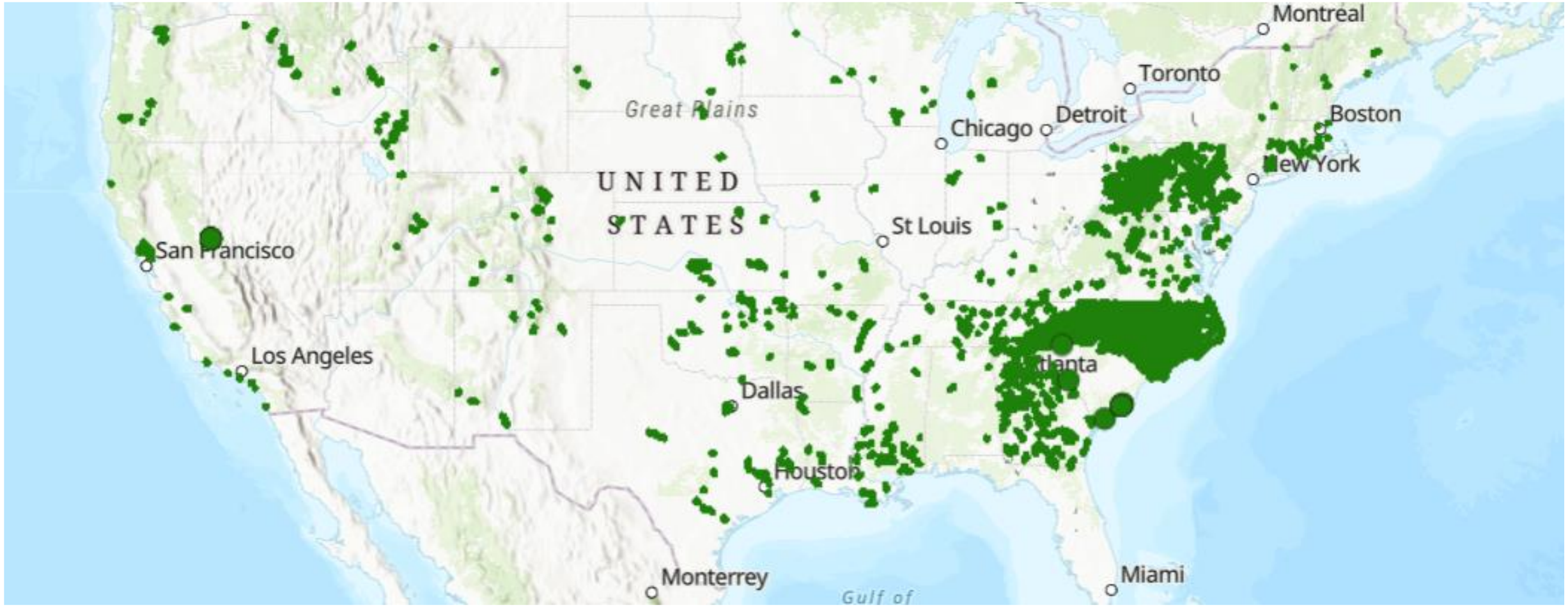
Use the ATTAINS Geospatial Service

Where are the waters impaired for nutrients nationally?



Use the ATTAINS Geospatial Service

Which waters have a TMDL and are fully supporting nationally?



Use the ATTAINS Geospatial Service

Expert Query

- Upcoming way to query public ATTAINS data
- Replaces old Expert Query
- Allows for cross-organization queries
- Uses a copy of the ATTAINS data
- Contains new set of services

Query ATTAINS Data

On this page

1 Pick a Data Profile
2 Apply Filters
Search for an Area of Interest
Search by Reporting Cycle
Search for a specific Assessment Unit
Search by Overall Status
Search by Use
Search by Parameter
Search by Associated Action
3 Download the Data

1 of 3 Pick a Data Profile

Data are grouped into profiles according to the type of data they describe. Select a data profile to determine the set of filterable elements.

Assessments ***Refresh date:*** *5/26/2023, 11:20:12 PM*

Contains detailed information on waters assessed under Section 305(b) of the Clean Water Act and waters list…

Clear Search

2 of 3 Apply Filters

Select options from the fields below to apply filters to the query. The options of some fields are filtered by previous selections.

Search for an Area of Interest

Expert Query Demo

What are all the TMDLs in Maine?

Use Expert Query

1 of 3 Pick a Data Profile

Data are grouped into profiles according to the type of data they describe. Select a data profile to determine the set of filterable elements.

Total Maximum Daily Load ***Refresh date:*** *5/19/2023, 8:19:02 PM*

Contains detailed information on Total Maximum Daily Load (TMDL) plans.

Clear Search

2 of 3 Apply Filters

Select options from the fields below to apply filters to the query. The options of some fields are filtered by previous selections.

Search for an Area of Interest

Region

Select a Region...

State

ME (Maine) ×

Organization ID (Organization Name)

Select an Organization...

Water Type

Select a Water Type...

On this page

1 Pick a Data Profile
2 Apply Filters
Search for an Area of Interest
Search by Pollutant or Parameter
Search by Permit ID
Search for a specific TMDL
Search by Time Frame
Search for Actions containing a specific Assessment Unit
3 Download the Data

How many TMDL Projects were approved so far in FY 2023 in Region 7?

Search for an Area of Interest

Region

07 ×

State

Select a State...

Organization ID (Organization Name)

Select an Organization...

Water Type

Select a Water Type...

Search by Pollutant or Parameter

Pollutant

Select a Pollutant...

Addressed Parameter

Select an Addressed Parameter...

Source Type

- [ ] Nonpoint source
- [ ] Point / Nonpoint source
- [ ] Point source

Search by Permit ID

NPDES ID

Select a NPDES ID...

Other Identifier

Select an Other Identifier...

Search for a specific TMDL

Action ID (Action Name)

Select an Action...

Action Agency

- [ ] EPA
- [ ] State
- [ ] Tribal

In Indian Country

- [ ] No
- [ ] Yes

On this page

1. Pick a Data Profile
2. Apply Filters
   - Search for an Area of Interest
   - Search by Pollutant or Parameter
   - Search by Permit ID
   - Search for a specific TMDL
   - Search by Time Frame
   - Search for Actions containing a specific Assessment Unit
3. Download the Data

Use Expert Query

~~Where~~ What are the waters impaired for nutrients nationally?

Parameter Group

NUTRIENTS ×

Parameter Name

Select a Parameter Name...

Parameter Status

- [x] Cause
- [ ] Insufficient Information
- [ ] Meeting Criteria
- [ ] Observed effect
- [ ] Removed

Parameter Attainment

Select a Parameter Attainment...

Parameter IR Category

Select a Parameter IR Category...

Parameter State IR Category

Select a Parameter State IR Category...

Delisted

- [ ] No
- [ ] Yes

Delisted Reason

Select a Delisted Reason...

Pollutant Indicator

- [ ] No
- [ ] Yes

Cycle First Listed

from: yyyy

to: yyyy

Alternate Listing ID

Select an Alternate Listing ID...

Vision 303d Priority

- [ ] No
- [ ] Yes

CWA 303d Priority Ranking

- [ ] High
- [ ] Low
- [ ] Medium

Cycle Scheduled for TMDL

from: yyyy

to: yyyy

Cycle Expected to Attain

from: yyyy

to: yyyy

Consent Decree Cycle

Season Start Date

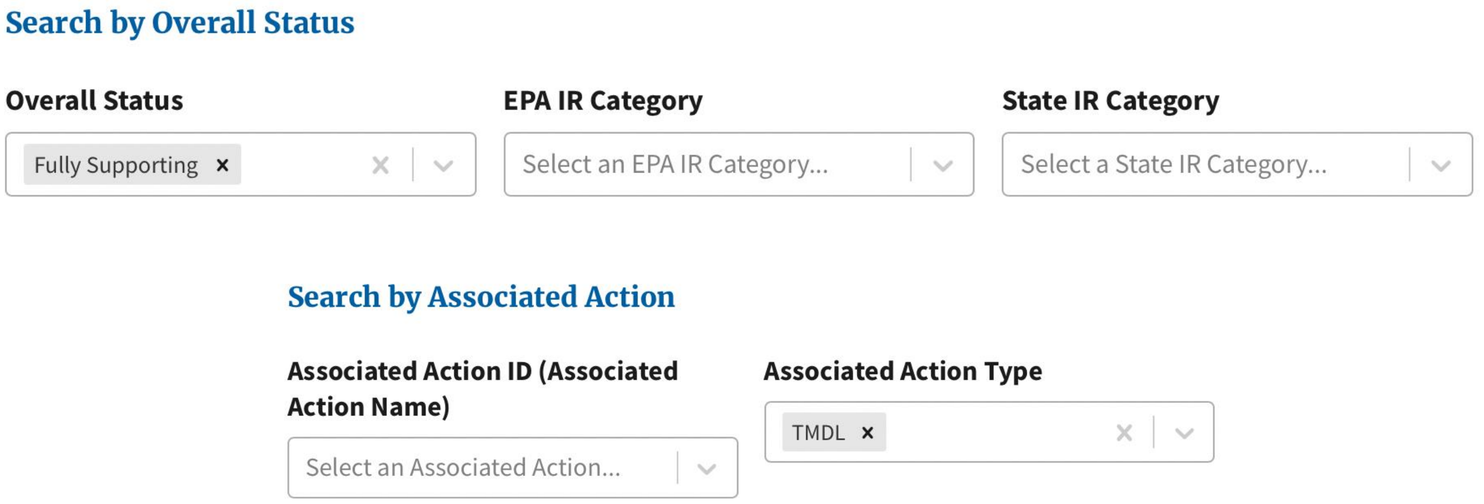
Season End Date

On this page

1. Pick a Data Profile
2. Apply Filters
   - Search for an Area of Interest
   - Search by Reporting Cycle
   - Search for a specific Assessment Unit
   - Search by Overall Status
   - Search by Use
   - Search by Parameter
   - Search by Associated Action
3. Download the Data

Use Expert Query

Which waters have a TMDL and are fully supporting nationally?



Use Expert Query

Summary of Suggested Tools

Different Tools work better for different types of questions

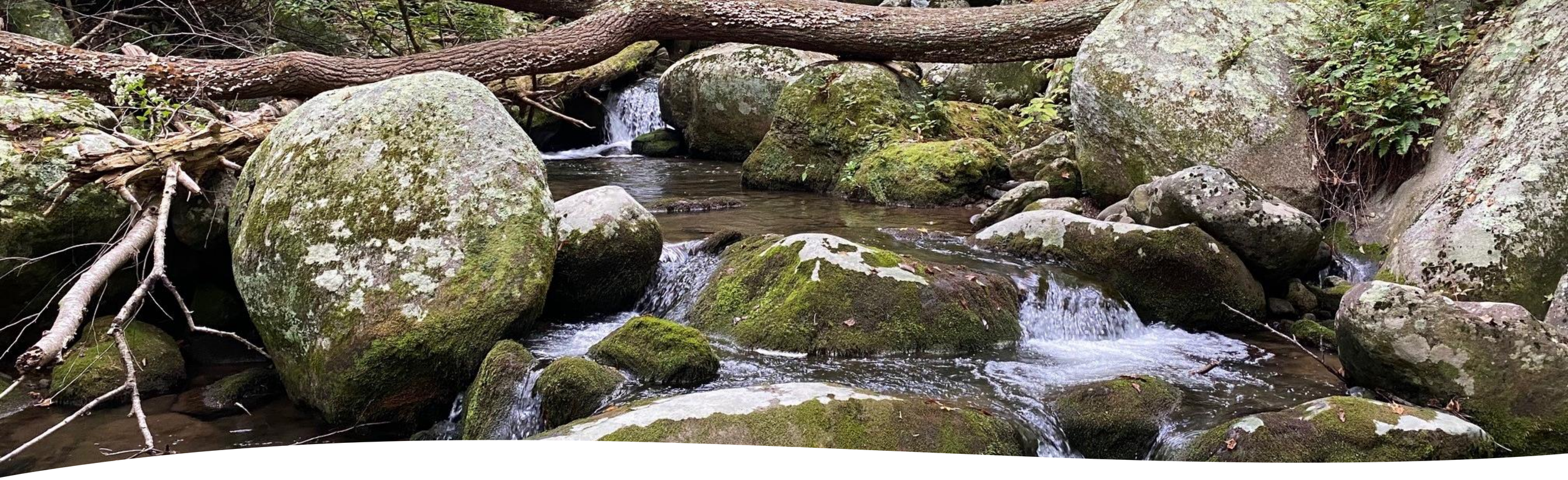
Question	How's My Waterway	ATTAINS Geospatial Service	ATTAINS Reports (Requires Login)	ATTAINS Services	Expert Query	Comment
Where?	Yes, within a state/Org or local area	Yes, at the national or state/Org level	No	No	No	"Where" questions--or questions that involve maps--require geospatial data
Summary	Yes, within a state or local area	Yes, at the Parameter Group or Use Group level	Yes, within an Organization	Depends on the question to be summarized	No	Several tools will provide limited summaries. Expert Query provides rows of data but no summaries.
Query	State Advanced tab allows limited filtering	Yes, at the Parameter Group or Use Group level, at the national or state level. Returns one record per AU	Yes, within an Organization	Limited filtering, and must be included in web service call	Yes	If you want to search or filter for rows of specific data, Expert Query may be your best option, if it is public data. (For non-public data, use Reports module within ATTAINS.) Expert Query allows querying across multiple Organizations or States but may result in very large tabular datasets.

For Further Reference

- How's My Waterway: https://mywaterway.epa.gov/
- Public ATTAINS Website: https://www.epa.gov/waterdata/attains
  - Using ATTAINS Web Services: https://www.epa.gov/waterdata/get-data-access-public-attains-data#WebServices
  - ATTAINS Geospatial Services: https://www.epa.gov/waterdata/get-data-access-public-attains-data#AttainsGeo
  - ATTAINS Reports Module: https://www.epa.gov/waterdata/upload-data-resources-registered-attains-users#reports-module

Expert Query Hands-On

- https://owapps-stage.app.cloud.gov/expertquery/attains/
- Username: expert
- Password: eq12!
- **Data in this system is has not been vetted by EPA and is for testing purposes only. Please report any errors you discover to attains@epa.gov.**



Questions?

- Jesse Boorman-Padgett
- boorman-padgett.jesse@epa.gov

- Wendy Reid
- reid.wendy@epa.gov