

WQX User Call

October 24, 2024

There were approximately 35 participants on the call.

Agenda:

1. WQX Project Status Report (15 mins)
 - WQX/WQXWeb performance/updates (Kevin)
 - WQX Helpdesk report (Shay)
 - WQX questions/comments
2. WQP Status Report (15 mins)
 - Update on recent performance issue
 - BETA testing - Please continue to test and send reports
 - WQP questions/comments
3. Open Discussion
 - Other topics/questions

[National Monitoring Conference – Working Together for Clean Water \(nwqmcconference.org\)](https://nwqmcconference.org)

March 10 to 14, 2025, in Green Bay, Wisconsin

I. WQX Project Status Report

A. WQX Status Report

1. WQX Data 1 on 1 assistance is supported via the WQX Helpdesk. Email [wxq@epa.gov](mailto:wqx@epa.gov)
2. No services disruptions observed over past month
3. Current development Sprint#1 planned deployment to Production likely in January 2025 supports the following:
 - a. WQX Web Review enhancements: MonitoringLocation (adding GeoLocation to view), Result (adding Characteristic/Taxon Groups).
 - b. WQX Dev - WQX-213 Create new API services to Review, Export to Excel, report Criteria
 1. Part 1 of 2: Project, MonitoringLocation, Result
 2. Will allow external data management systems to verify status of uploads/imports.
 - c. Bugfixes and enhancements: Well, Comparable elements, Converted Value / Unit Target, Administrator Menu track TransactionType, Origin
 - d. WQX Dev - WQX-238 Enable hyperlinks for all Import Configuration Elements with domain values to review and/or

download individual "Domain Values" list (7/12). Will provide access to domain values without having to enter translation module.

- e. WQX Dev - WQX-246 New features for Review Monitoring Locations and Results

B. WQX Helpdesk report (Shay)

Shay was out - no updates.

C. TENC24 2024 Tribal Exchange Network Conference

1. Held Oct. 15-17 in Spokane, WA
2. Variety of technical sessions, including R, FieldMaps, WQX, more. We led a 4-hour hands-on training with a WQX overview, dataset demo upload via both Web Template and custom import, and finally using WQP web services. Recording will be available on the Conference website after 11/30. <https://www.tribalexchangenetwork.org/tenc>

C. WQX - Comments, questions

2. WQP Status Report (10 mins) (Candice and Lee)

We discussed the recent performance issues that hit the Portal this past week. The underlying cause was really driven by traffic, a number of congruent users, hung queries, and a background ETL of the WQX upload to the database that caused the CPU to be maxed out close to 100%. This forced us to shutdown, close hung queries, and implement some solutions to slow/queue traffic and kill any hung queries on the database side.

We want to hear if you experience any performance issues moving forward now that user rate-limiting and hung query termination is in effect. On average, we have between 10-20 users hitting the services at any micro-second. When we were being brought down, users were hovering around 60. Now, if traffic is high, users may receive a 429 error because we are limiting users to 20 at a time.

Q - Is WQP user rate limiting here to stay? A - Yes. We may iterate based on feedback and any resource adjustments.

Q - We were getting query results back but they were incomplete. The same query would return different subsets of results. A - Need to investigate if it was PROD or BETA.

Q - Any possibility of implementing an optional known user key? A - That is not something we have explored at this time.

Q - Any guidance on how hung queries are defined (i.e. big vs slow ones)? A - It's best to keep queries as simple as possible. If anticipating a large return, could break up the query by year.

II. Open Discussion/ Other/Wrap-up

Our next WQX/WQP User call will be **January 23, 2025 at 12pm ET**. See you in the new year!

[National Monitoring Conference – Working Together for Clean Water \(nwqmcconference.org\)](https://nwqmcconference.org)
March 10 to 14, 2025, in Green Bay, Wisconsin

Registration will open soon!

WQX Data Assistance

EPA WQX offers you a single point of contact to assist you with any questions or needs for your data submission and retrieval. We are here to help you succeed! For custom support, please request an appointment for individual assistance with a WQX data advisor.

What is "1 on 1" data assistance?

- We provide individualized, in-depth assistance to partners and programs conducting individual or group data monitoring.
- A WQX data advisor will schedule a meeting with you based on your best availability to help you with your project/assignment.
- Open to all WQX/WQP Web users.
- Sessions can last from 15 minutes to 1 hour.
- Sessions can be scheduled within the weekday hours of 8am to 7pm EST by appointment.
- If you had a "1 on 1" session, you may also request follow-up assistance via email to WQX Helpdesk ([wxq@epa.gov](mailto:wqx@epa.gov)).
- If you have a basic question, a faster way to get an answer is to chat with us.

To speak with a WQX representative, please call **800-424-9067** ([wxq@epa.gov](mailto:wqx@epa.gov)).