WQX User Call
May 25, 2023

There were approximately 46 participants on the call.

Returning Attendees:
- Adam Griggs (USEPA)
- Elise Hinman (ORISE EPA HQ)
- Steven Vu (R7 EPA)
- Candice Hopkins (USGS)
- Natalie Moore (TDEC)
- Elizabeth Smith (EPA R4)
- Chris Neumiller (WA Ecology)
- Lee Stanish (USGS)
- Bryan Rabon (SCDHEC)
- Ben Frans (WA Ecology)
- Dan Eardley (ID DEQ)

First-time Attendees:

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Agenda:
1. WQX Project Status Report (25 mins)
   - WQX/WQXWeb performance/updates (Kevin)
     i. WQX Parse and Load Service restarted 05/08 to resolve user reports of WQX Slow submission Processing
   - WQX Helpdesk report (Shay)
   - WQX questions/comments
2. WQP Status Report (15 mins)
   - WQP General Status Report
   - User Feedback requests
   - WQP questions/comments
3. Presentation: Tools for Automated Data Analysis
   - Cristina Mullin (USEPA)
   - Elise Hinman (USEPA-ORISE)

4. Open Discussion
    ○ Other topics/questions

Notes:

Welcome. We are trying out a new notes system during these meetings that is more in keeping with the practices of our other External User groups. Feel free to add your name to the attendance list so that we can have a better record of who is attending these meetings and receiving these updates.

1. **WQX Project Status Report**
    a. <u>WQX Status</u>
        i. There was an interruption to our parse and load processor. We confirmed there was an issue and restarted the software. This occurred on May 8.
    b. <u>WQX/WQXWeb performance/updates (Kevin)</u>

        Continuing agile development for WQX:

        i. WQX Web detailed reports
            1. Access to new reports.
        ii. NEW processing queue
        iii. Transaction documents download URL
            1. We are now facilitating access to submission transaction documents.
        iv. Minor bugfixes

    c. <u>WQX Helpdesk report (Shay)</u>

        Averaging 75 user inquiries in emails/tickets. Automatic JIRA ticketing is up and running, so when you email, it is automatically logged in the system. There was an outage about 2 weeks ago, but it is back up and running. Please reach out if you haven't heard from the helpdesk in over 24 hours.

        Working on some data tutorials for the exchange network as well.

    d. <u>WQX - Comments, questions</u>

i. **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/WQX 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 (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 (wqx@epa.gov).

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

We have been starting work on the WQX 3.0 data profiles, as long as consolidation and cleanup. Been optimizing some performance in the cloud. As we got started, we did bring down the Portal for an hour, but it was quickly resolved.
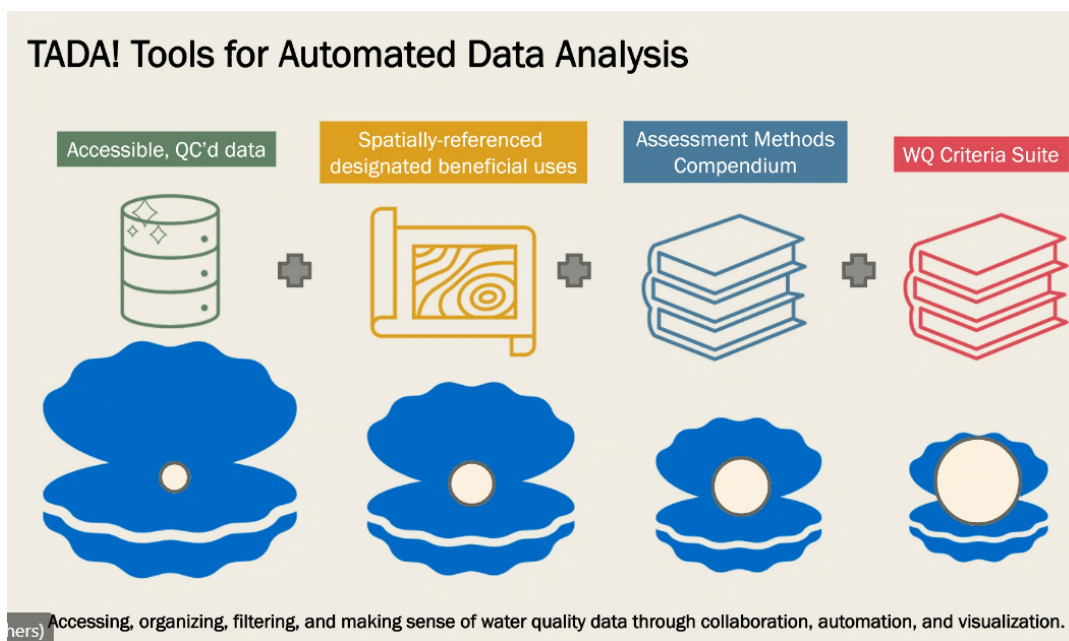
e. User Feedback Requests -
i. Need testers for new data profiles - Looking for new testers for the services we stand up to deliver the new WQX 3.0 data profiles. They will be available there as a service before being built into the UI. Please reach out to Candice if you would like to help out testing the new services.

2. Presentation: Tools for Automated Data Analysis

Cristina Mullin (USEPA-WDIB) and Elise Hinman (USEPA-WDIB-ORISE) presented on the current status of the new tool Tools for Automated Data Analysis (TADA) project which is an open development R project. TADA is being developed by many partners who work on WQP data and assessment.

Please reach out to Cristina Mullin if you would like to get involved: mullin.cristina@epa.gov

Module 1 of TADA is Data Discovery and Cleaning. We have a pretty good working version of this Module.

For more information you can visit: https://epa.gov/waterdata/TADA

The project is being developed on GitHUB, which you can access from the page above. Since the project is open-source, and community-developed, any interested user can view, download, or contribute to the project through GitHUB.

You can download the R package there or from within your IDE to begin playing with the TADA R package. The GitHUB also provides a reference directory of functions and terms found in TADA.

There are two articles available on the GutHUB page, one on how to best Contribute to the project, including just submitting feature requests. A 2nd article gives you a tutorial on using TADA Module 1 data retrieval and data cleaning functions.

The data cleaning function make use of the WQX data validation tables to perform data flagging in addition to some TADA specific functions.

Question - "Do you have to download the package to get the validation tables?" Answer - For the most part, no, the TADA validation are running off of the already available WQX QAQCCharacteristicValidation domain table.

Question - "Do you have any table to validate flags or qualifier codes?" Answer, not at this time. There are many values in the Qualifier tables that would be difficult or impossible to validate, but there may be a subset of those values that would be worth flagging and we will look into that.

Elise provided an excellent demo of Module 1 of the TADA Shiny App including all the data query, flagging, and summary functions.

4. Open Discussion/ Other/Wrap-up

Reminder - Exchange Network Grants due end of the month.

Our next WQX/WQP User call will be June 22, 2023.