#### Final

## WQX User Call October 28, 2021

There were approximately 48 participants. The next WQX User call is January 27, 2021.

#### Agenda:

- 1. New WQX Team Member Adam Griggs
- 2. Release of QAQC services
- 3. Water Quality Portal NEW Interface (<u>https://labs.waterdata.usgs.gov/wqp/</u>)
- 4. Open Discussion

#### 1) New WQX Team Member Adam Griggs

- a. Fulltime EPA Staff, Project Lead for Support/Training of the WQX dataflow and Water Quality Portal
- b. New Coordinator for the WQX User Call

### 2) Release of QAQC services

QAQC Service was release to production September 30, 2021. The Water Quality Exchange (WQX) Team recently released a new quality assurance and quality check (QA/QC) service for the WQX, the prime pathway for submitting state and other water quality monitoring data to the Agency. This innovative service provides critical feedback to data submitters on potential data errors in their submitted data, thereby improving the overall quality of water quality monitoring data that are shared publicly. Historically, WQX required users to fully document the metadata for any data shared, but this new service takes this one step further by conducting deeper analysis on the data by looking for values outside a valid range, incorrect units, incorrect locations, duplicate locations, and results, and data consistency checks. The new QA/QC service provides a userfriendly downloadable report for both locations and sample results. Each report provides detailed information about any errors identified in their data sets. This new service is automatically applied to any data submitted through WQX. Work is underway to add this capability to any data downloaded from the Water Quality Portal. Within the first year of release the WQX Team request review and feedback from the WQX user community Subject Matter Experts (SMEs) to improve the QAQC service's data consistency checks. The next year, the WQX Team will collaborate and deploy any improvements with the Water Quality Portal Team.

#### 3) Water Quality Portal NEW Interface (https://labs.waterdata.usgs.gov/wqp/)

The portal is up and running. It was last refreshed on Wednesday, October 25th. Please test and explore the new User Interface and email any feedback to <u>wqx@epa.gov</u> The WQP Team is addressing a number of help desk issues. The main priority is to address consistency on refreshes from Portal data providers.

# PRESENTATION: How do I prepare my data for submission to WQX Web

The interface allows you to create Import Configurations that WQX web uses to

Documentation is referenced on page 24 of the Flow Configuration Document

QAQCResults.CSV		
Column	Definition	
	Designator that uniquely identifies an activity within an	
ActivityIdentifier	organization.	
ActivityStartDate	The calendar date on which the field activity was started.	
ActivityType	The text describing the type of activity.	
ActivityMediaName	Name or code indicating the environmental medium where the sample was taken.	
	A designator used to describe the unique name, number, or	
MonitoringLocationIdentifier	code assigned to identify the monitoring location.	
ResultDetectionConditionText	The textual descriptor of a result.	
	The object, property, or substance which is evaluated or	
	enumerated by either a direct field measurement, a direct field	
	observation, or by laboratory analysis of material collected in	
CharacteristicName	the field.	
	The text name of the portion of the sample associated with	
ResultSampleFractionText	results obtained from a physically-partitioned sample.	
	Identifies the chemical speciation in which the measured result	
ResultMethodSpeciationText	is expressed.	
	The reportable measure of the result for the chemical,	
ResultMeasureValue	microbiological or other characteristic being analyzed.	
	The code that represents the unit for measuring the chemical	
ResultMeasureUnitCode	substance, microbiological substance or other characteristic.	
	Indicates acceptability of the result with respect to QA/QC	
ResultStatusIdentifier	criteria.	
	A measurement of the vertical location (measured from a	
ResultDepthHeightMeasure	reference point) at which a result is obtained.	
Statistical BaseCode	The code for the method used to calculate derived results.	
	The identification number or code assigned by the method	
Analytical Method I dentifier	publisher.	
	Identifies the source or data system that created or defined the	
Analytical Method ID Context	identifier.	
	The Unique ID for the user responsible for the last change to	
LastChangeDate	data in this row	
	The CDX Transaction ID that was responsible for the last	
TransactionIdentifier	change to data in this row	

Invalid_CharacteristicName_YN	NOT a valid Characteristic domain value
Invalid_Unit_YN	NOT a valid Measurement Unit domain value
	NOT a valid Method Speciation for the supplied Characteristic
Invalid_Speciation_YN	domain value
	NOT a valid Sample Fraction for the supplied Characteristic
Invalid_Fraction_YN	domain value
	NOT a valid Analytical Method for the supplied Characteristic
Uncommon_Analytical_Method_YN	domain value
Result_Special_Characters_YN	Special characters found PREFIXED in Result Measure Value
	Indicates whether a Quality Assurance Project Plan (QAPP) has
QAPP_NOTApproved_YN	been approved for the submitted project.
	Indicates whether a document has been Uploaded for the
QAPP_Doc_Missing	submitted project.
Below_Lower_Threshold_YN	Indicates Measure Value is above the LowerRange
Exceeds_Upper_Threshold_YN	Indicates Measure Value is below the UpperRange
LowerRange	The lowest number of the range
UpperRange	The highest number of the range
TargetUnitRange	The Unit Conversion Target Unit
	The Unit Conversion Factor:
	(ResultMeasureValue+UnitConversionCoefficient) *
UnitConversionFactor	UnitConversionFactor
	The Unit Conversion Coefficient:
	(ResultMeasureValue+UnitConversionCoefficient) *
UnitConversionCoefficient	UnitConversionFactor
NOTES_RECOMMENDATION	Shows all allowable domain values for a given characteristic

QAQCLOcations.CSV		
Column	Definition	
	A designator used to describe the unique name, number, or code	
MonitoringLocationIdentifier	assigned to identify the monitoring location.	
	The designator specified by the sampling organization for the site at	
MonitoringLocationName	which sampling or other activities are conducted.	
MonitoringLocationType	The descriptive name for a type of monitoring location.	
	The measure of the angular distance on a meridian north or south of	
Latitude	the equator.	
	The measure of the angular distance on a meridian east or west of the	
Longitude	prime meridian.	

	The Unique ID for the user responsible for the last change to data in
LastChangeDate	this row
	The CDX Transaction ID that was responsible for the last change to
TransactionIdentifier	data in this row
Country	A code designator
	A code designator used to identify a principal administrative
State	subdivision of the United States, Canada, or Mexico.
County	A code designator used to identify a U.S. county or county equivalent.
	The 8 digit federal code used to identify the hydrologic unit of the
HUCEightDigitCode	monitoring location to the cataloging unit level of precision.
GEO_LATSCALED	Reference Latitude precision and scale
GEO_LONGSCALED	Reference Longitude precision and scale
GEO_COUNTRY	Reference reverse generated Country
GEO_STATE	Reference reverse generated State
GEO_COUNTY	Reference reverse generated County
	The 12 digit federal code used to identify the hydrologic unit of the
GEO_HUCTWELVEDIGITCODE	monitoring location to the subwatershed level of precision.
	The 14 digit federal code used to identify the reach code of the
GEO_REACHCODE	monitoring location to the subwatershed level of precision.
InvalidUSALatLong	Negative Latitude and Positive Longitude are NOT USA
DualizateCiteOre	Identify Organizational Sites with same Lat/Long points within 3 digit decimal precision
DuplicateSiteOrg	Identify National Sites with same Lat/Long points within 3 digit
NationalSiteDups	decimal precision
NationalSiteDups	Precision and scale for latitude or longitude is less than 3 digits
Less3DigitDecimal	decimal
CountryDISAGREEwLatlong	User Supplied Country disagrees with reverse geo coded lat/long
StateDISAGREEwLatlong	User Supplied State disagrees with reverse geo coded lat/long
CountyDISAGREEwLatlong	User Supplied County disagrees with reverse geo coded lat/long
NOTES_RECOMMENDATION	List of duplicate Sites (WQP)