

WQX Web Appendix

Required and Conditional Fields for Importing Data Into WQX.

Required Fields For Importing Data	
Note: Required fields are in black, however fields are only required if applicable, i.e. if sampling was not conducted on a Tribal land, fields such as Tribal Land Indicator and Name are not needed. Conditional fields are in orange , and optional elements are in blue .	
Projects	Monitoring Locations
Project ID Project Name Project Description	Monitoring Location ID Monitoring Location Name Monitoring Location Type HUC Eight Digit Code Tribal Land Indicator Tribal Land Names Monitoring Location Latitude Monitoring Location Longitude Monitoring Location Source Map Scale Monitoring Location Horiz. Collection Method Monitoring location Horiz. Coordinate Ref. System State Code County Code
Results	
Project ID Monitoring Location ID Activity ID Activity Type Activity Media Name Activity Start Date Activity Start Time Activity Start Time Zone Activity Depth/Height Measure Activity Depth/Height Unit Sampling Collection Method ID Sampling Collection Equip. Name Samp. Collection Equip. Commnt	Result Detectoin Condition Result Measure Result Unit Result Sample Fraction Result Status ID Statistical Base Code Result Comment Data Logger Line Characteristic Name Method Speciation Name Result Detection/ Quantitaitoin Limit Type Result Detection/ Quantitaitoin Limit Measure Result Detection Quantitation Limit Unit Result Analytical Method Context Analysis Start Date Result Value type Result Analytical Method ID

Table 1. Required and Conditional Fields for importing data

Conditional Fields	
Element	When Element is Applicable
Monitoring Location Source Map Scale	When using a map to determine locations, this element is required if the <i>Horizontal Collection Method</i> is 'Interpolation-Map'
Activity Start Time Zone	If <i>Activity Start Time</i> is included in results, <i>Activity Start Time Zone</i> is a required element
Activity Depth/ Height Unit	If <i>Activity Depth/ Height Measure</i> is included as a result, <i>Activity Depth / Unit Height</i> is required
Sampling Collection Method ID	If an activity designates a sample, it is required to define the <i>Sampling Collection Method ID</i> to reference the owning organization and Method ID
Sampling Collection Equipment Name	If an activity designates a sample, it is required to define the <i>Activity Type</i> to reference any equipment used to collect the sample
Data Logger Line	If "Data Logger" was selected as the <i>Activity Type</i> for a specific result, It is required to reference the <i>Data Logger Line</i> .
Result Measure	If a result was detected when the activity was performed, the <i>Result Measure</i> is required.
Result Sample Fraction	If a result was detected with certain characteristics, it is required to reference the <i>Result Sample Fraction</i> . For further information see the characteristics Tab in the STORET/WQX Template.
Statistical Base Code	If a result was detected when the activity was performed and a statistically measured value was entered into the result measure column, the <i>Statistical Base Code</i> is required.
Result Unit	Only required with certain activities. Required if a result was detected when the activity was performed and if a value was entered in the <i>Result Measure Column</i>
Result Status ID	
Result Analytical Method Context	
Analysis start date	
Result Value Type	
Result Analytical Method	Required if a result was reported as a specific chemical species, i.e. NO_3^- , NH_4^+ , SiO_3
Method Speciation Name	
Result Detect./ Quant. Limit Type	
Result Detect./ Quant. Limit Measure	Required when <i>Result Detection Condition Text</i> is <i>Not Detected</i> , <i>Present above Quantification Limit</i> , or <i>Present and Below Quantification Limit</i>
Result Detect. /Quant. Limit Unit	

Glossary of WQX Web Terms

Allowable Values

Business rules – describes a set of rules that define the structure and control the operation of WQX Web. For further guidance on business rules in WQX Web, refer to the flow configuration document (FCD) accessible at the following URL, <http://www.exchangenetwork.net/exchanges/water/wqx.htm> or review the [WQX Web Template User Guide](http://www.epa.gov/storet/wqx/wqxweb_downloads.html) which contains a template dictionary http://www.epa.gov/storet/wqx/wqxweb_downloads.html.

Concatenate – Linking or joining two data elements together

Domain Values -

Header file – title row identifying each column (Figure 1)

Tab delimited - refers to the scheme used to organize columns. In this case the tab key or spaces are used to signify a new category (Figure 1). Notice the columns are not perfectly centered, especially towards the right of the file. Files that are delimited by a particular symbol, in this case the tab key, can retain organization schemes by corresponding column headers when importing the file into Microsoft Excel. This will be important to note when importing data files into WQX Web.

Project Identifier	Monitoring Location Identifier	Activity ID	Activity Type Code	Activity Media Name	Activity
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20020801	Field Msr/Obs	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01F20010910	Field Msr/Obs	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01F20010910	Field Msr/Obs	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01F20010910	Field Msr/Obs	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01F20010910	Field Msr/Obs	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01F20010910	Field Msr/Obs	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01F20011003	Field Msr/Obs	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01F20011003	Field Msr/Obs	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01F20011003	Field Msr/Obs	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01F20011003	Field Msr/Obs	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01F20011003	Field Msr/Obs	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01S20010910	Sample-Routine	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01S20010910	Sample-Routine	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01S20010910	Sample-Routine	water	2001-09-10 9:48:00 MDT
SL_MONIT	DWNT01	DWNT01S20020801	Sample-Routine	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01S20020801	Sample-Routine	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01S20020801	Sample-Routine	water	2002-08-01 8:20:00 MDT
SL_MONIT	DWNT01	DWNT01S20011003	Sample-Routine	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01S20011003	Sample-Routine	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01S20011003	Sample-Routine	water	2001-10-03 10:03:00 MDT
SL_MONIT	DWNT01	DWNT01S20011003	Sample-Routine	water	2001-10-03 10:03:00 MDT

Figure 1.