.XML Schema and Instructions

1.0 Overview of SDWIS/XML Sampling Schemas

Depending on the type of sampling data, one of the following schemas will be used to transfer data to SDWIS/STATE:

X SDWIS_eDWR_v2.0.xsd Schema
X SDWIS_Summary_v2.0.xsd Schema
X SDWIS_SummaryResult_v2.0.xsd Schema
X SDWIS_MDBPSummary_v2.0.xsd Schema

Each schema may include several business objects, which are essentially sub-groupings of related data.

All schemas are provided in the following .zip file
sdwis_xml_sampling_20_schemas.zip

Examples of valid laboratory sample result submission files are provided in:
GeneralSampleResultExample.xml
TCMPNSampleResultExample.xml

1.1 SDWIS_eDWR_v2.0.xsd Schema

The SDWIS_eDWR schema is the one that laboratories will use to report sample results for batch input into the SDWIS/STATE database. SDWIS_eDWR_v2.0.xsd encompasses the Sample, Other Sample Measure, Sample Result and the Other Analysis Measure business objects for SDWIS/XML Sampling (Laboratory Sample Result Data). The SDWIS_eDWR schema only contains those elements needed to move laboratory sample results into a SDWIS/STATE database.

To give immediate feedback to the laboratory and to optimize data quality, the following constraints have been added to the SDWIS_eDWR schema elements:

- Data Type
- Length
- Permitted Values
- Optionality
- Data Range (Valid date range is between 1901-01-01 to 2100-01-01)
- Time Range (Valid time range is between 00:00:00 to 23:59:59)

1.2 SDWIS_Summary_v2.0.xsd Schema

The SDWIS_Summary_v2.0.xsd schema defines the data elements needed to migrate a Coliform or Lead and Copper Sample Summary into a SDWIS/STATE database. The schema elements, type, optionality, and enumerated values are determined by the SDWIS/STATE Summary structure. Data quality constraints, like those listed in section 1.1, have been added to this schema.

1.3 SDWIS_SummaryResult_v2.0.xsd Schema

The SDWIS_SummaryResult_v2.0.xsd schema defines the data elements needed to migrate a Coliform or Lead and Copper Sample Summary Result into a SDWIS/STATE database. This schema is not a part of the e-DWR schemas but follows the data standards and recommendations of the Data Exchange Registry. The schema elements, type, optionality, and enumerated values are determined by the SDWIS/STATE Summary Result structure. Data quality constraints, like those listed in section 1.1, have been added to this schema.

1.4 SDWIS_MDBPSummary_v2.0.xsd Schema

The SDWIS_MDBPSummary_v2.0.xsd schema defines the data elements needed to migrate an MDBP Summary Result into a SDWIS/STATE database. (This is, for example, the schema used to migrate Water Treatment Rule Summaries into SDWIS/STATE.) The schema elements, type, optionality, and enumerated values are determined by the SDWIS/STATE MDBP Summary structure. Data quality constraints, like those listed in section 1.1, have been added to this schema.