

WQX – STORET Differences in Business Rules, Data Requirements, Conditional Requirements

STATION REQUIREMENTS

- Project ID must be unique for each Station**
Do not assign Stations to Projects in the Data Entry Module
In the PJ3 Project Menu – there is an option for “Associated Information”
Do not choose the option “Stations on Project”

You do not need to make a Project to Station association through the Data Entry Module

The association is made when you import your SIM file. Your SIM import configuration has a column for “Project ID” and a column for “Station ID”. When you import your file into SIM, the Project ID to Station ID association is made at that time.

- Station Name is required**
(Refer to Enter_Station.zip)
When you enter or import a new station, you must include the “Station Name”, along with the required “Station ID”, Station “Primary Type”, Station “Secondary Type”, “Latitude”, “Longitude”, “Geopositioning Method”, and “Geopositioning Datum”.

Your SIM import configuration should, at the minimum, include these fields.

The screenshot shows the 'SIM - Import Configuration' window. It has a top section with fields for Name (TEST_1), Type (STATIONS), Desc, and Org ID (DEMOTEST). There are buttons for Help, Copy Configuration, Save, Load Configuration, and Close. Below this is a 'Columns' tab with a table of columns for import. The table has columns: Column, Pos, Req, Include, Generate, Default, Max Len, Fmt Option, Format, and a Translation button. The columns listed are: Station ID, Station Name, Primary Type, Secondary Type, Latitude, Longitude, Geopositioning Method, Geopositioning Datum, Establishment Date, and Water Depth. The 'Import Format' field at the bottom contains the text: Station ID|Station Name|Primary Type|Secondary Type|Latitude|Longitude|Geopositioning Method|Geopositioning Datum. There is an 'Update Format' button.

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format	Translation
Station ID	1	☒	☒	☐		15	Freetext		☒
Station Name	2	☐	☒	☐		60	Freetext		☒
Primary Type	3	☒	☒	☐		30	STORET Table		☒
Secondary Type	4	☒	☒	☐		30	STORET Table		☒
Latitude	5	☒	☒	☐		14	Defined Format		☒
Longitude	6	☒	☒	☐		15	Defined Format		☒
Geopositioning Method	7	☒	☒	☐		3	STORET Table		☒
Geopositioning Datum	8	☒	☒	☐		5	STORET Table		☒
Establishment Date	5	☐	☐	☐		10	Defined Format		☒
Water Depth	6	☐	☐	☐		8	Freetext		☒

Import Format: Station ID|Station Name|Primary Type|Secondary Type|Latitude|Longitude|Geopositioning Method|Geopositioning Datum

Update Format

- IF County Code is reported for a Station THEN the State must also be reported**
(Refer to Enter_Station.zip)
When importing or entering a new station into STORET and the “County” in which the station is located is included, you must also include the “State”. You are not required to include the county and the State when you upload data, but if you choose to include the county in which a station is located, you have to include the State also.

Your SIM import configuration should include these fields.

NAME

TEST_1

TYPE

STATIONS

Station load definition

DESC

ORG ID

DEMOTEST

DELIMITER

|

Pipe

Help

Copy Configuration

Save

Load Configuration

Close

Columns

Instructions

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format		
Station ID	1	☒	☒	☐		15	Freetext			Translation
Station Name	2	☐	☒	☐		60	Freetext			Translation
Primary Type	3	☒	☒	☐		30	STORET Table			Translation
Secondary Type	4	☒	☒	☐		30	STORET Table			Translation
Latitude	5	☒	☒	☐		14	Defined Format			Translation
Longitude	6	☒	☒	☐		15	Defined Format			Translation
Geopositioning Method	7	☒	☒	☐		3	STORET Table			Translation
Geopositioning Datum	8	☒	☒	☐		5	STORET Table			Translation
County	9	☐	☒	☐		25	STORET Table			Translation
State	10	☐	☒	☐		2	STORET Table			Translation

Import Format

Station ID|Station Name|Primary Type|Secondary Type|Latitude|Longitude|Geopositioning Method|Geopositioning Datum|County|State

Update Format

- IF Elevation is reported THEN Elevation Units, Elevation Method and Elevation Datum must be reported**

(Refer to Elevation_Scale_demo.zip)

When you import or enter a new station into STORET, if you include the station’s “Elevation”, then you must report the unit of measurement, “Elevation Units”, and how you collected/measured the elevation information, “Elevation Method” and “Elevation Datum”. You are not required to import the station’s elevation, but if you choose to import the station’s elevation then you must include the unit of measurement and how you measured the elevation by reporting the Elevation Collection Method and Elevation Datum used.

Your SIM import configuration should include these fields.

NAME

TEST_1

TYPE

STATIONS

Station load definition

DESC

ORG ID

DEMOTEST

DELIMITER

|

Pipe

Help

Copy Configuration

Save

Load Configuration

Close

Columns

Instructions

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format		
Station ID	1	☒	☒	☐		15	Freetext			Translation
Station Name	2	☐	☒	☐		60	Freetext			Translation
Primary Type	3	☒	☒	☐		30	STORET Table			Translation
Secondary Type	4	☒	☒	☐		30	STORET Table			Translation
Latitude	5	☒	☒	☐		14	Defined Format			Translation
Longitude	6	☒	☒	☐		15	Defined Format			Translation
Geopositioning Method	7	☒	☒	☐		3	STORET Table			Translation
Geopositioning Datum	8	☒	☒	☐		5	STORET Table			Translation
Elevation	9	☐	☒	☐		9	Freetext			Translation
Elevation Units	10	☐	☒	☐		2	Allowable Values			Translation
Elevation Method	11	☐	☒	☐		3	STORET Table			Translation
Elevation Datum	12	☐	☒	☐		6	STORET Table			Translation
Establishment Date	5	☐	☐	☐		10	Defined Format			Translation
Water Depth	6	☐	☐	☐		8	Freetext			Translation
Water Depth Units	7	☐	☐	☐		2	Allowable Values			Translation

Import Format

Station ID|Station Name|Primary Type|Secondary Type|Latitude|Longitude|Geopositioning Method|Geopositioning Datum|Elevation|Elevatio

Update Format

- **IF Horizontal Geopositioning Method is ‘Interpolation-Map’ THEN a Scale must be reported**

Enter the numeric value for the scale in this format ➡1:24000

(Refer to Elevation_Scale_demo.zip)

When you import or enter a new station into STORET, if the Horizontal “Geopositioning Method” is ‘Interpolation-Map’ then you must report the map “Scale” in the format of 1:24000 or 1:75000 (whatever the scale is for the map you used).

Your SIM import configuration should include these fields.

SIM - Import Configuration

Name

TEST_1

Help

Type

STATIONS

Station load definition

Copy Configuration

Save

Desc

Load Configuration

Close

Org ID

DEMOTEST

Delimiter

|

Pipe

Columns

Instructions

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format	
Station ID	1	☒	☒	☐		15	Freertext		Translation
Station Name	2	☐	☒	☐		60	Freertext		Translation
Primary Type	3	☒	☒	☐		30	STORET Table		Translation
Secondary Type	4	☒	☒	☐		30	STORET Table		Translation
Latitude	5	☒	☒	☐		14	Defined Format		Translation
Longitude	6	☒	☒	☐		15	Defined Format		Translation
Geopositioning Method	7	☒	☒	☐		3	STORET Table		Translation
Geopositioning Datum	8	☒	☒	☐		5	STORET Table		Translation
Scale	9	☐	☒	☐		20	Freertext		Translation
Establishment Date	5	☐	☐	☐		10	Defined Format		Translation

Import Format

Station ID|Station Name|Primary Type|Secondary Type|Latitude|Longitude|Geopositioning Method|Geopositioning Datum|Scale

Update Format

DATA REQUIREMENTS

- **IF Activity Category is ‘Integrated Vertical Profile’ THEN Lower Depth and Upper Depth and Upper/Lower Depth Units must be reported**

(Refer to Integrated_Profile_demo.zip)

If you do integrated vertical profile sampling, you will need to report the “Lower Depth” at which the bottom of the sampling equipment is located in the water and also the “Upper Depth” at which the top of the sampling equipment is located in the water. You will also need to report the “Upper/Lower Depth Units” of measure.

Example:

“Activity Type” = Routine Sample

“Activity Category” = Integrated Vertical Profile

“Upper Depth” = 0.15

“Lower Depth” = 2.65

“Upper/Lower Depth Units” = ft

Note, when reporting Activity Category ‘Integrated Vertical Profile’, because you also report Lower Depth, Upper Depth, and the Upper/Lower Depth Units, you will not need to report Depth to Activity, Depth to Activity Units, or Relative Depth.

You will need to add “Lower Depth”, “Upper Depth”, and “Upper/ Lower Depth Units” to your SIM import configuration.

In addition to the fields you have already included in your SIM import configuration you will also need to include these fields.

DISPLAY_NAME
1,3-Dichloropropane
2,2'-Dichlorodiisopropyl ether
2-Chloronaphthalene
2-Chlorophenol
2-Chlorotoluene
2-Hexanone
3,3'-Dichlorobenzidine
3,4-Dimethylphenol
3,5-Dimethylphenol
3-Hydroxycarbofuran
4-Bromophenyl phenyl ether
4-Chloroaniline
4-Chlorotoluene
BOD, sediment load
Calcium as CaCO3
Chlorophyll b
Chlorophyll c
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
delta-BHC
gamma-BHC (Lindane)
gamma-Chlordene
Hydrocarbons, C8
iso-Propanol
Nitrogen, ammonium (NH4) as NH4
o-Cresol
o-Cymene
Oxygen-18/Oxygen-16 ratio in sulfate
p-Cresol
Pheophytin-a
sec-Butylbenzene
Secondary productivity
tert-Butylbenzene
trans-Chlordane

Refer to this web page for the entire list of characteristics that require a sample fraction
http://www.epa.gov/storet/wqx/wqx_getdomainvalueswebservice.html

- **IF Sample Collection Procedure ID is reported THEN Sample Collection Equipment must be reported**

(Refer to Collection_Gear_demo.zip)

When you import or enter a new” Sample_Collection_Procedure_ID” into STORET, you must enter the collection equipment that you use to collect the sample. There are two steps that must be taken to ensure this information is included in STORET.

STEP 1: Enter the appropriate information into the Data Entry Module

When:

“Sample_Collection_Procedure_ID” = GRAB

P31 Field Procedure Data Entry

Organization: 21FLJXWQ City of Jacksonville

ID: GRAB

Name: Grab sample

Gear Group Name:

Description Text:

Citation ID:

Citation:

Accept Cancel Help

Also report the following information in the Data Entry Module for this procedure:

- “Field_Gear_Group_Name” = Water Sampler
- “Field_Gear_ID” (Column Name in SIM is “GEAR ID”) = WSWB
- “Field_Sampling_Gear_Name” = Water bottle

P28B Gear Type Selection

Gear Group Name: Water Sampler

Field Sampling Gear

Field Gear ID	Name
WSBK	Bucket
WSKM	Kemmerer bottle
WSNA	Nansen bottle
WSNI	Niskin bottle
WSOTH	Other
WSPAL	Pump/air lift
WSPB	Pump/bailer
WSPC	Pump/centrifugal
WSPJ	Pump/jet
WSPNS	Pump/non-submersible
WSPP	Pump/piston
WSPR	Pump/rotary
WSPS	Pump/submersible
WSPT	Pump/turbine
WSSC	Ship sea chest
WSVC	Flexible vinyl tube
WSVD	Van Dorn bottle
WSWB	Water bottle

Select Cancel Help

STEP 2: Then add the column named “GEAR ID” to your SIM import configuration.
There are two ways that you can include “GEAR ID” in your SIM import configuration and SIM import file.

- 1.) You have the option to automatically generate a default value for all records in your SIM import file. You can do this by putting a check in the ‘Generate’ box as seen below. The default value must be the same value entered into Field_Gear_ID as seen above (WSWB). If you choose to ‘Generate’ the “GEAR ID”, you do not need to add an additional column to the file that you import into SIM. SIM will generate the “GEAR ID” column and will populate it with the default value you entered (Ex. WSWB).

SIM - Import Configuration

Name:

Type:

Desc:

Org ID:

Delimiter:

Columns | Instructions

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format		
Personnel	44	☐	☐	☐		256	STORET Table		Translation	
Cooperating Organization	45	☐	☐	☐		60	STORET Table		Translation	
Activity Comments	46	☐	☐	☐		254	Freetext		Translation	
Activity Document/Graphic	47	☐	☐	☐		256	Freetext		Translation	
Sample Collection Procedure I	48	☐	☐	☐		8	STORET Table		Translation	
Gear ID	49	☐	☒	☐	wSwB	30	STORET Table		Translation	
Gear Configuration ID	50	☐	☐	☐		10	STORET Table		Translation	
Gear Deployment Comments	51	☐	☐	☐		1999	Freetext		Translation	
Sample Preservation Transport	52	☐	☐	☐		10	STORET Table		Translation	
Sample Transport and Storage	53	☐	☐	☐		1999	Freetext		Translation	

Import Format:

2.) Or you may enter a value for each sample as you import your data. You must include the “GEAR ID” column in your SIM import configuration. You can do this by putting a check in the ‘Include’ box as seen below.

SIM - Import Configuration

Name:

Type:

Desc:

Org ID:

Delimiter:

Columns | Instructions

Column	Pos	Req	Include	Generate	Default	Max Len	Fmt Option	Format		
Personnel	44	☐	☐	☐		256	STORET Table		Translation	
Cooperating Organization	45	☐	☐	☐		60	STORET Table		Translation	
Activity Comments	46	☐	☐	☐		254	Freetext		Translation	
Activity Document/Graphic	47	☐	☐	☐		256	Freetext		Translation	
Sample Collection Procedure I	48	☐	☐	☐		8	STORET Table		Translation	
Gear ID	49	☐	☒	☐		30	STORET Table		Translation	
Gear Configuration ID	50	☐	☐	☐		10	STORET Table		Translation	
Gear Deployment Comments	51	☐	☐	☐		1999	Freetext		Translation	
Sample Preservation Transport	52	☐	☐	☐		10	STORET Table		Translation	
Sample Transport and Storage	53	☐	☐	☐		1999	Freetext		Translation	

Import Format:

Once you have included the “GEAR ID” column in your SIM import configuration, you will also need to add the extra column to your SIM import file and populate the column with the correct GEAR ID.