

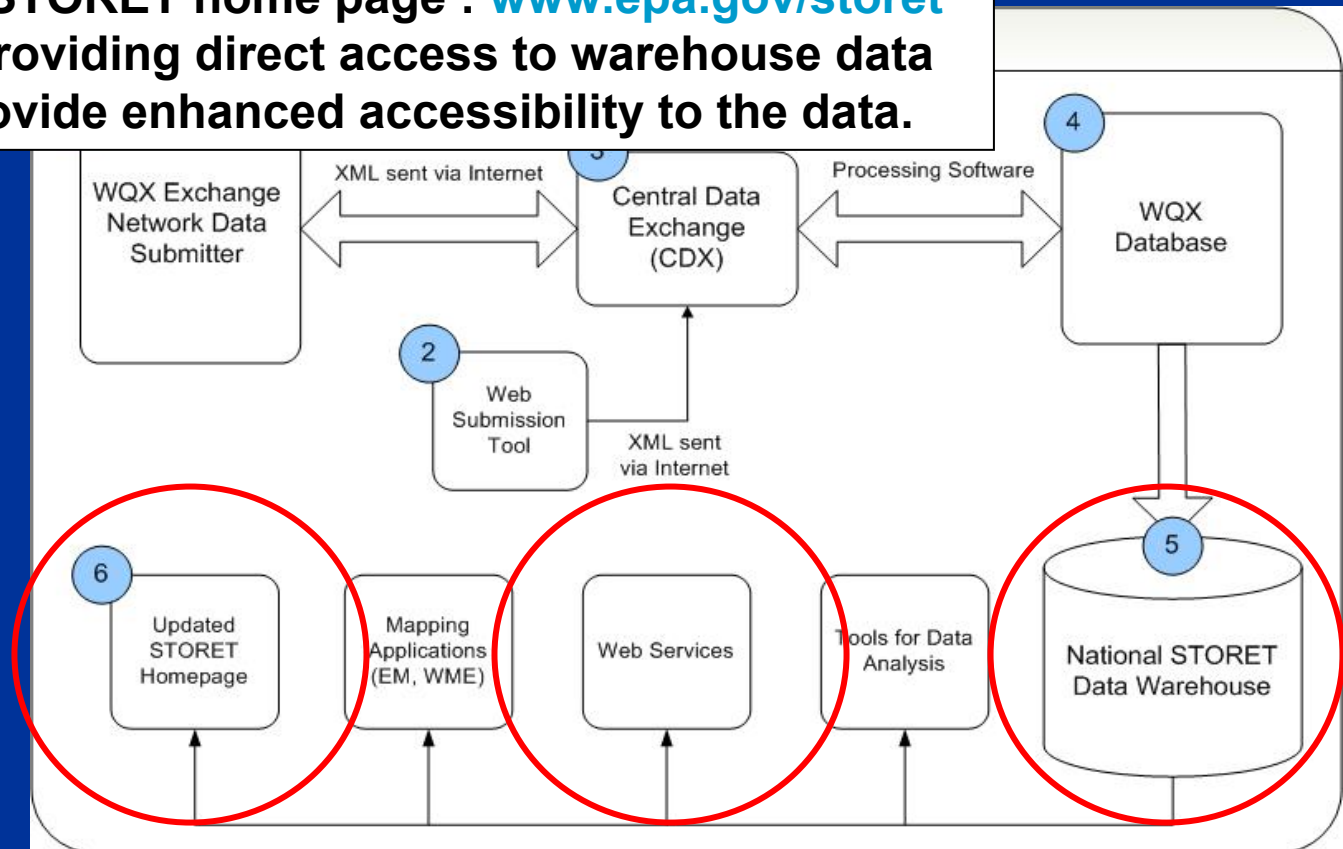
Retrieving Data from the STORET Warehouse

R9 STORET/WQX Workshop for Tribes

November 18, 2008

Accessing Data

The National STORET Data Warehouse serves as the national repository for Modern STORET data as well as WQX data. Users may obtain data from the warehouse through the STORET home page : www.epa.gov/storet Web services providing direct access to warehouse data will also provide enhanced accessibility to the data.



- About STORET
- Data Owner's Corner
- Updates/Downloads
- Obtaining Water Quality Data
- Useful Internet Links
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- Recent Additions



STORET Data Warehouse

Data refreshed as of August 26, 2008

Query Options

STORET Warehouse Watershed Summary

[Summary of Results by Watershed](#)

STORET Station Descriptions

[Stations by Geographic Location](#)

[Stations by Organization and Station ID](#)

STORET Regular Results

(Non-Biological Physical and Chemical Result Data)

[Regular Results by Geographic Location](#)

[Regular Results by Station](#)

[Regular Results by Project](#)

STORET Biological Results

[Biological Results by Geographic Location](#)

[Biological Results by Station](#)

[Biological Results by Project](#)

STORET Habitat Results

[Habitat Results by Geographic Location](#)

[Habitat Results by Station](#)

[Tell Us What You Think!](#)

[What's New with the STORET Data Warehouse?](#)

This page offers information about the recent changes made to STORET Warehouse.

[How to Query and Download Data](#)

This exercise gives step by step instructions on how to generate, download, export (to Microsoft Excel or Access), and analyze a data query from the STORET Data Warehouse as well as the new Watershed Summary.

* Adobe Acrobat® Reader required.

[Make a Map](#)

Create a map of monitoring locations from STORET using either [EnviroMapper for Water](#) or [Window to My Environment](#).

[Data Logger Results](#)

Download a delimited text file of results reported to STORET from Automated Data Loggers. These results, which cannot yet be downloaded via the query options at the left, will be in the form of a self-extracting compressed file (450K) which may be saved on disk and will expand when executed. In its uncompressed form, this file requires 14.8 MB of disk space.

[Data Quality Documentation](#)

Select from among available reports which document the standards, methods, practices, and other metadata supplied by data owners to document the quality of the monitoring results found in the National STORET Data Warehouse.

STORET Warehouse Updates

- The National STORET Data Warehouse enhancements for improved data accessibility
 - New Watershed Summary – Available Now
 - New Web Services – Available Now
- Please visit the STORET website for more information : www.epa.gov/storet

Watershed Summary Examples



STORET

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STORET Watershed Station Summary: 18010209

This page provides summary information for water quality data that are available within this watershed. You can access the water quality monitoring data on any of the 'Get Details' links. These data are generated from EPA's STORET database.

The data provided on this page were generated using *STORET Web Services*. For more information on how to incorporate these data into your application click [here](#).

For this watershed, the following organizations have reported monitoring data:

- [CADWR](#) - California Department of Water Resources
- [CALSWAMP](#) - CA Surface Water Monitoring Program (California)
- [EMAP-CS](#) - Environmental Monitoring and Assessment Program
- [NARS](#) - EPA National Aquatic Resource Survey Data

Organization ID: CADWR - California Department of Water Resources

Station ID	Station Name/Summary Information	Period of Record
1595.00	F3100200 (Get Details) 55-Physical	06/09/1993-06/16/1994
1596.00	F3100300 (Get Details) 43-Physical	06/09/1993-06/16/1994
1597.00	F3100500 (Get Details) 48-Physical	06/09/1993-06/16/1994

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Results by Watershed

Drainage Basin/HUC



Search By

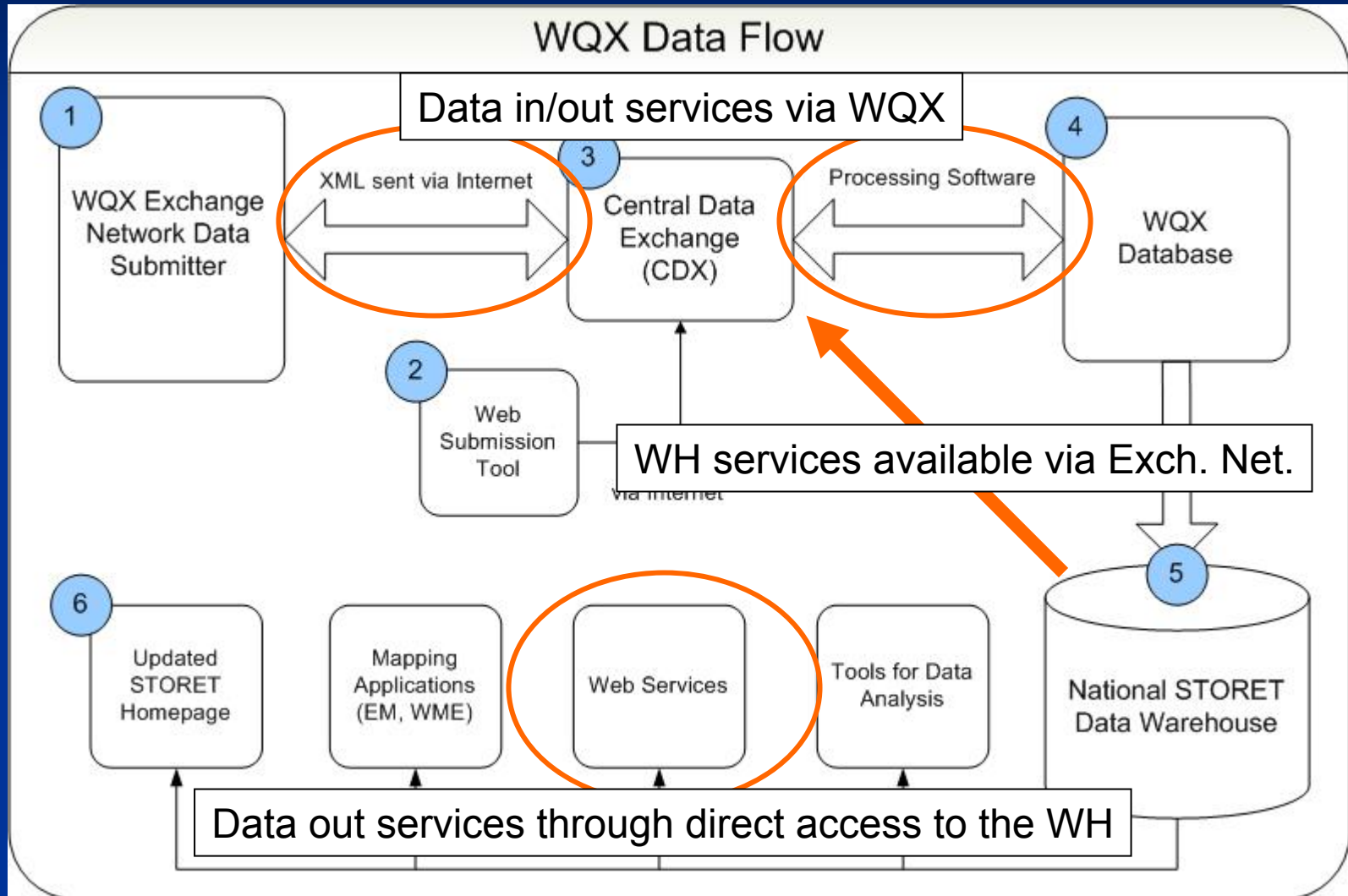
- Organization Characteristic Type

3 Organizations, 10 Stations, 323 Characteristics, 23,222 Results

Organization

- All Organizations of the Watershed
- CADWR - California Department of Water Resources 01/14/1992 - 03/04/2002 (60) Records
- [1 Stations](#)
 - [60 Physical](#)
- CALSWAMP - CA Surface Water Monitoring Program (California) 02/26/2002 - 06/18/2002 (349) Records
- [2 Stations](#)

Where do Web Services fit?



An example using Monitoring Data

Microsoft Excel - Web_Service_Data_browser.xls

File Edit View Insert Format Tools Data Window Help

Type a question for help

Arial 10 B I U \$ % 100%

C5 7/11/1979

Get Data

ID	Monitoring Location	ActivityStartDate	ActivityMedia	Analyte	MeasureValue	Units	Comment	Detection	AnalyMethod
1	OrgID: UTAHDWQ								
2	StationID: 4900420								
3									
4	790005	4900420	7/11/1979	Water	Dissolved oxygen (DO)	6500			FIELD MEASURE
5	790005	4900420	7/11/1979	Water	pH	7.8	None		FIELD MEASURE
6	790005C	4900420	7/11/1979	Water	Turbidity	8.6	NTU		GENERIC METHC
7	790005C	4900420	7/11/1979	Water	Silica	1000	ug/l		GENERIC METHC
8	790005C	4900420	7/11/1979	Water	Mercury	0	ug/l		GENERIC METHC
9	790005C	4900420	7/11/1979	Water	Arsenic	5	ug/l		GENERIC METHC
10	790005C	4900420	7/11/1979	Water	Chloride	11000	ug/l		GENERIC METHC
11	790005C	4900420	7/11/1979	Water	Nickel	0	ug/l		GENERIC METHC
12	790005C	4900420	7/11/1979	Water	Carbon dioxide	1000	ug/l		GENERIC METHC
13	790005C	4900420	7/11/1979	Water	Magnesium	15000	ug/l		GENERIC METHC
14	790005C	4900420	7/11/1979	Water	Specific conductance	33	uS/cm		GENERIC METHC
15	790005C	4900420	7/11/1979	Water	Total Coliform	93	#/100ml		9221-C
16	790005C	4900420	7/11/1979	Water	Boron	65	ug/l		GENERIC METHC
17	790005C	4900420	7/11/1979	Water	Silver	0	ug/l		GENERIC METHC
18	790005C	4900420	7/11/1979	Water	Calcium	4000	ug/l		GENERIC METHC
19	790005C	4900420	7/11/1979	Water	Carbonate ion (CO3-2)	2000	ug/l		GENERIC METHC
20	790005C	4900420	7/11/1979	Water	pH	8.5	None		GENERIC METHC
21	790005C	4900420	7/11/1979	Water	Nitrogen, Nitrite (NO2) as NO2	0	ug/l		GENERIC METHC
22	790005C	4900420	7/11/1979	Water	Hardness, Ca + Mg	16000	ug/l		GENERIC METHC
23	790005C	4900420	7/11/1979	Water	Phosphorus, orthophosphate as P	50	ug/l		GENERIC METHC
24	790006	4900420	10/2/1979	Water	Temperature, water	13.5	deg C		FIELD MEASURE
25	790006	4900420	10/2/1979	Water	Specific conductance	140	uS/cm		FIELD MEASURE
26	790006	4900420	10/2/1979	Water	Dissolved oxygen (DO)	7800	ug/l		FIELD MEASURE

WATERSHED DATA Sheet3

Ready