



To: Distribution

From: Ernestine Bryant, STOrage and RETrieval (STORET), Technical Project Leader (TPL), SDC/SAIC

Subject: Minutes of STORET Change Control Board (CCB) Meeting

1.0 Purpose

A CCB Meeting was held on November 7, 2002 at the Systems Development Center (SDC). The purpose of the meeting was to review and address the status of the STORET Project activities, resolve project issues, and ensure that changes are within the Task Order scope and are processed in a visible and traceable manner.

2.0 Attendees

SDC

Ernestine Bryant
Blythe Norris
Stephen Smith
Joe Wilson
Ganesh Thadkamalla

EPA

Robert King (TOPO)
Lee Manning (ATOPO)
Kevin Christian
Cary McElhinney
Leo Gueriguian

3.0 Discussion Topics

The following sections detail the discussions of the project tasks and associated Software Incident Reports (SIRs).

3.1 Central Warehouse

The Central Data Warehouse, release C1.1B, was deployed on Valley/Canyon at Research Triangle Park, North Carolina. The purpose of this deployment was to facilitate further review and comment.

Several technical specifications were distributed for review (see Attachment A). These specifications are associated with SIRs 1363, 1364, 1365, 1366, 1367, 1369, 1370, 1371, and 1378.

The list of modifications from the previous meeting was reviewed, and the progress made on each item discussed. It was determined that the final action items to address before the next release are:

- C Link Location Point Type and Point Sequence Number so they are selected and unselected simultaneously.
- C Research Station Type display options that allow for the most frequently used Station Types to be visible without scrolling.
- C Create a method of resetting the County List back to "All" after Counties have been selected.
- C Remove the sidebar from all pages of the application.
- C Implement a limit on the number of stations that can be included in a Station List. This limit should be consistent with the limit enforced by the existing web application.
- C Test the application using 800 x 600 resolution to ensure horizontal scrolling is not required to view any of the pages.

A Joint Requirement Planning (JRP) session will be held on November 20, 2002 to discuss the requirements and design of the Results portion of the Central Warehouse.

4.0 Action Item Summary

Number	Description	Date Issued	Status	Assignment	Date Completed
02-0001	Provide synopsis of Reporting Capabilities of the CSE.	01/24/2002	Closed	SDC Staff	02/27/2002
02-0002	Investigate abend when deleting characteristic from MTPC/STI area.	01/24/2002	Closed	B. Norris	09/26/2002
02-0003	Reproduce problem with SIR 1087; Char. Group Complete indicator not changing to No when Field/Lab Anal. Procedures are unassigned.	01/24/2002	Closed	B. King	02/27/2002
02-0004	Send summary of Habitat Class Scheme Characteristic rules.	01/24/2002	Closed	B. Norris	01/24/2002
02-0005	Send Characteristic Duplicate Checking Business Rules.	02/05/2002	Closed	B. Norris	02/27/2002

Number	Description	Date Issued	Status	Assignment	Date Completed
02-0006	Send MTPC and related Biological Result Group Business Rules.	02/05/2002	Closed	B. Norris	02/27/2002
02-0007	Parent/Child Assignment Business Rules for Sample-from-Sample and Composite Sample Activities.	02/05/2002	Closed	B. Norris	02/27/2002
02-0008	Provide synopsis of current COOL:Gen 6.0 null support.	02/27/2002	Closed	B. Norris	04/16/2002
02-0009	Send foreign key list mapping "0IS" and "1IS" Numbers/Org IDs to logical relationships.	02/27/2002	Closed	B. Norris	04/16/2002
02-0010	Create list of Oracle database parameters to set during installation.	03/13/2002	Closed	EPA STORET	10/21/2002
02-0011	Send Inventory Summary SQL.	03/13/2002	Closed	S. Smith	04/16/2002
02-0012	Send BLOB performance statistics.	03/25/2002	Closed	B. Norris	04/16/2002
02-0013	Create bitmap for STORET Main Menu.	05/22/2002	Closed	SDC	07/18/2002
02-0014	Send TSMBLOB table structure.	05/30/2002	Closed	B. Norris	06/05/2002
02-0015	Provide answer to: Can data files and table spaces be "portable"?	06/20/2002	Closed	G. Thadkamalla	10/31/2002
02-0016	Provide the full taxonomic characteristics data to B. King.	07/18/2002	Closed	G. Thadkamalla	09/26/2002
02-0017	Send HTML banner page from the X2.0B release to L. Manning.	09/18/2002	Closed	B. Norris	09/20/2002
02-0018	Send the Designer/Developer versions used to create the Web Registration application to B. King.	09/18/2002	Closed	B. Norris	09/20/2002
02-0019	Inquire about CAS Numbers for STORET chemicals.	11/07/2002	Open	E. Bryant	

5.0 Next Meeting

The next meeting was scheduled for November 20, 2002.

6.0 Distribution to EPA & SDC Interested Parties

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7.0 Approval of Minutes as Submitted or Revised

Robert E. King
Task Order Project Officer

Date

ATTACHMENT A

Central Warehouse Designs/Technical Specifications

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1365

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Char_Popup

Web Page Name: STORET: Characteristic Search Results

Date: 10/31/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The Characteristic Search Results page is called by the Station Search Criteria page and is used to display a list of available Characteristics that conform to the user's search string. The user is able to select one or more Characteristics from this list. The names and codes of the selected Characteristics are passed to the Station Search Criteria page where the appropriate fields are populated with this information.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
Characteristic (DI_CHARACTERISTIC)	DISPLAY_NAME	Y
	SEARCH_NAME	N
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	< Look Up >

Input Parameters:

Natural Language	Parameter
The text string used to search available Characteristics	AS_CHAR
Boolean flag used to signal whether taxonomic names should be included in characteristic searches	TAXON_FILTER

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	< Select >

Output Parameters:

Natural Language	Parameter
A PL/SQL table of selected Characteristics (Characteristic ID List)	CHAR_LIST
The names of the selected Characteristic(s) in a comma separated string	V_CHAR_NAMES

Internal Procedure Events:

Onload

- C Populate the select list with the Characteristics that conform to the Characteristic Search String (AS_CHAR).

Form Level

- C 'Select' onclick: Populate the Characteristic select list on the Station Selection Criteria page with the Characteristic names that the user selects from this pop-up window. If Characteristics were previously added, insert the new Characteristics at the end of the existing Characteristic select list. Write the corresponding Characteristic codes to the hidden "value" attributes of the Characteristic select list.
- C 'Cancel' onclick: Close this pop-up window and return focus to the Station Selection Criteria page. Do not alter the value of the Characteristic select list.

Images:

None.

Business Rules:

- C Only display Taxonomic Characteristics if the user has requested to see them.
- C If Taxonomic Characteristics are requested, only display those that have recorded result data.
- C Allow multiple Characteristics to be selected.
- C If a Characteristic is selected multiple times, include it only once on the Station Selection Criteria page.

Error Handling:

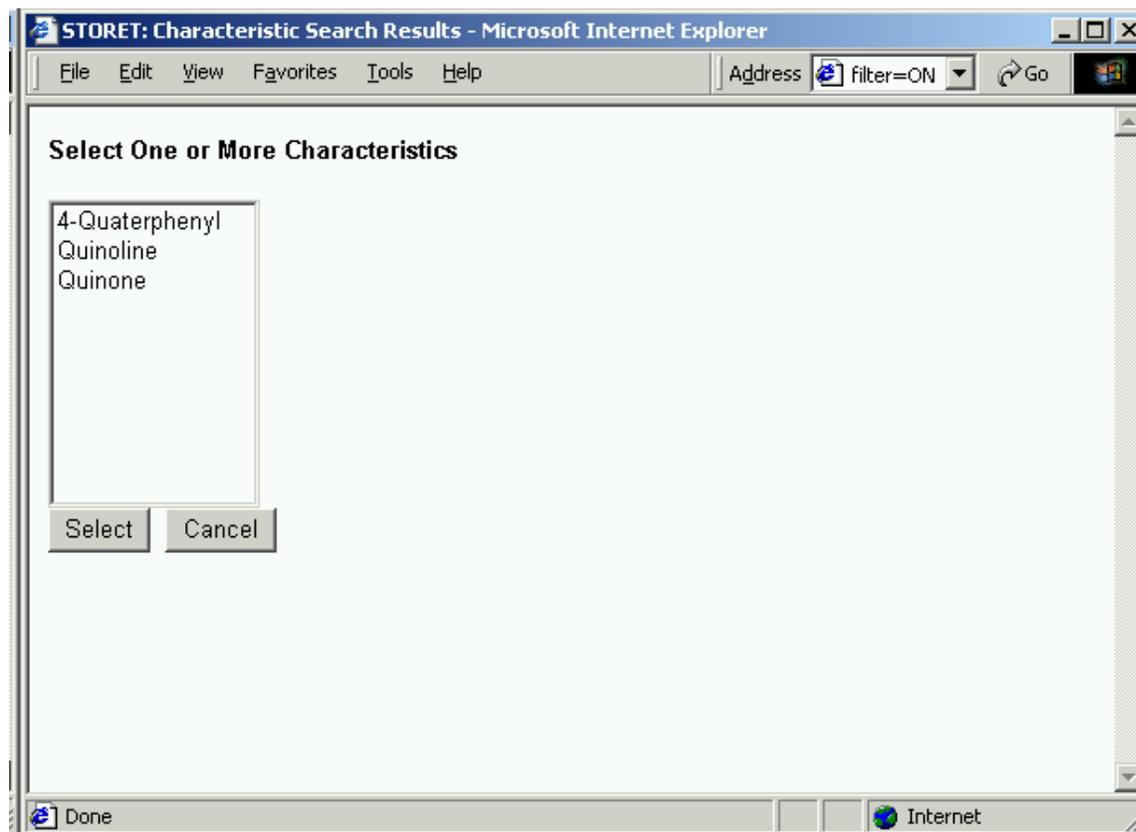
- C A standard Error Page should be displayed when this page does not load upon request.
- C Only valid Characteristic Codes are returned to the Station Search Criteria page.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

This page will be updated once the development of the page is completed.



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1363

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_County_Popup

Web Page Name: STORET: Select Counties

Date: 10/30/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The Select Counties page is called by the Station Search Criteria page and is used to display a list of all available Counties for the State the user has selected. The user is able to select one or more Counties from this list. The names and codes of the selected Counties are passed to the Station Search Criteria page where the appropriate fields are populated with this information.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	STATE_CODE	N
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
	COUNTY_CODE	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Look Up>

Input Parameters:

Natural Language	Parameter
The internal code corresponding to the State the user has selected.	V_STATECODE

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Select >

Output Parameters:

Natural Language	Parameter
The names of the selected County(s) in a comma separated string	AS_COUNTY
The codes of the selected County(s) in a comma separated string	V_COUNTY_CODE

Internal Procedure Events:

- C 'Select' onclick: Populate the County Name text area on the Station Selection Criteria page with the County names that the user selects from this pop-up window. Write the corresponding County codes in the hidden field V_COUNTY_CODE.
- C 'Cancel' onclick: Close this pop-up window and return focus to the Station Selection Criteria page. Do not alter the value of the County Name text area.

Images:

None.

Business Rules:

- C All Counties are displayed regardless of whether they have Stations associated with them.
- C Multiple Counties can be selected per Station search but all selected Counties must belong to the same State.

Error Handling:

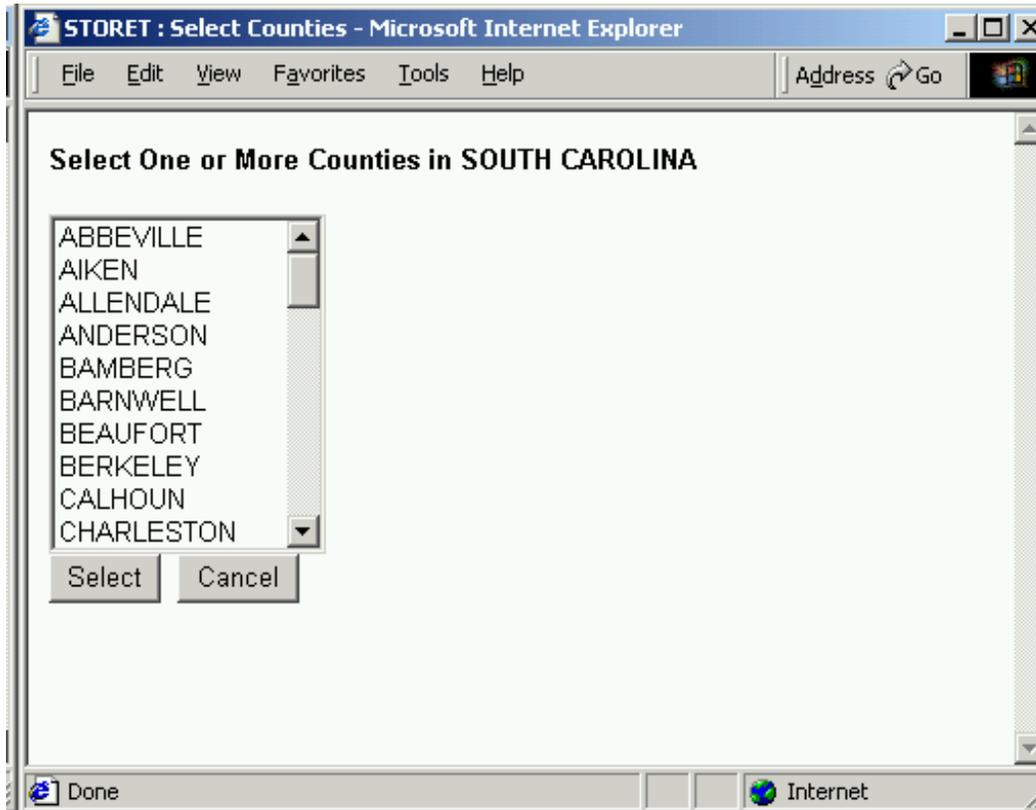
- C A standard Error Page should be displayed when this page does not load upon request.
- C Only valid County Names and County Codes are returned to the Station Search Criteria page.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

This page will be updated once the development of the page is completed.



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1366

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_HUC_Popup

Web Page Name: STORET: Select Hydrologic Unit Code (HUC)

Date: 10/30/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The Select Hydrologic Unit Code page is called by the Station Search Criteria page, and is used to display a list of all available Hydrologic Unit Names and their associated codes in a pop-up window. The user may select one Hydrologic Unit from this list. The code of the selected Hydrologic Unit is passed to the Station Search Criteria page where the appropriate field is populated.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
HUC Code (DI_DB_CAT)	HYDROLOGIC_UNIT_CODE	Y
	HYDROLOGIC_UNIT_NAME	Y

Note: Although this web page is initially generated from the DI_DB_CAT table, the HUC list is static and must be manually refreshed if changes are made to that table.

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Look Up>

Input Parameters:

None.

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Select>

Output Parameters:

Natural Language	Parameter
The Hydrologic Unit Code value	AS_HUC

Internal Procedure Events:

- C 'Select' onclick: Populate the Cataloging Unit text box on the Station Selection Criteria page with the HUC code that the user selects from this pop-up window.
- C 'Cancel' onclick: Close this pop-up window and return focus to the Station Selection Criteria page. Do not alter the value of the Cataloging Unit text box.

Images:

None.

Business Rules:

- C All Hydrologic Units are displayed regardless of whether they have Stations associated with them.
- C Only one Hydrologic Unit can be selected per Station search.

Error Handling:

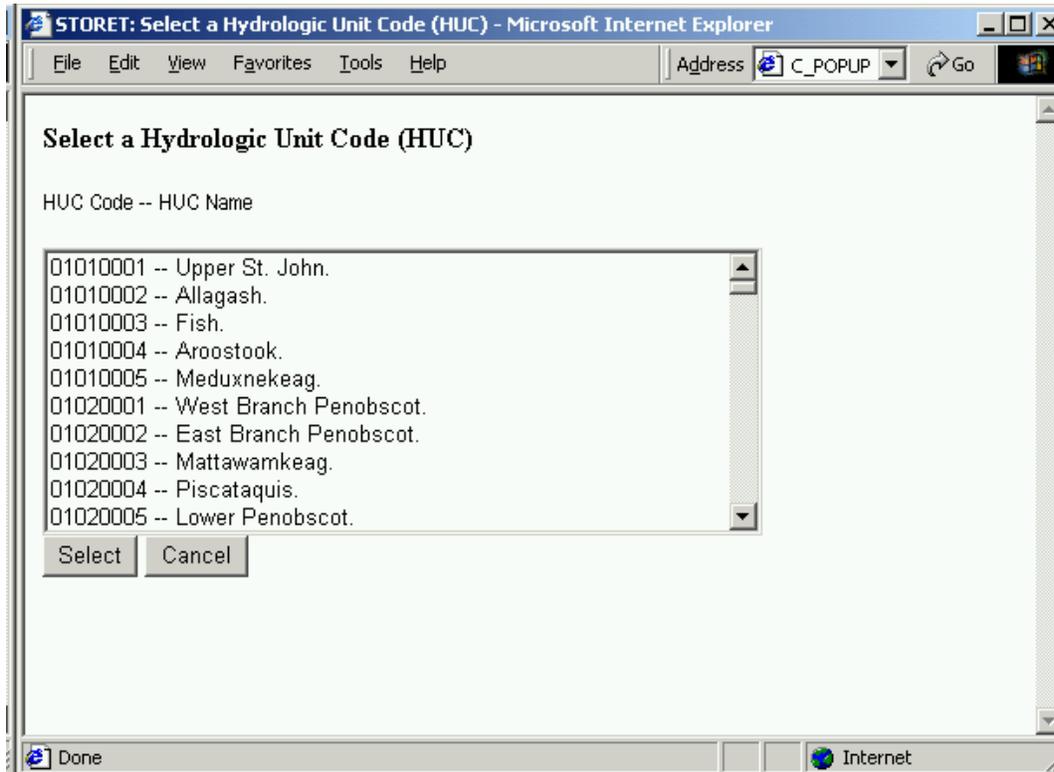
- C A standard Error Page should be displayed when this page does not load upon request.
- C Only valid Hydrologic Unit Codes are returned to the Station Search Criteria page.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

This page will be updated once the development of the page is completed.



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1363, 1364, 1365, 1366, 1367, 1369

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Criteria

Web Page Name: Station Search Criteria

Date: 10/28/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The Station Search Criteria page is the first page of the STORET Station Data Warehouse and provides a single point for data entry of the Station selection parameters that a user is most likely to query. The page is divided into four major areas: Geographic Location, Station Type, Characteristic, and Organization. A user is able to accept a default value or enter specific selection criteria for each of these query dimensions. In addition, the Geographic Location dimension is divided into three sub-dimensions: State/County, Latitude/Longitude, and Hydrologic Unit Code (HUC). The user is able to select one of these three location sub-dimension per Station query.

Tables Used:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
Station (FA_STATION)	LATITUDE	Y
	LONGITUDE	Y

Entity	Attribute	Display
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_STATN_TYPES	N
	FK_ORG	N
HUC Code (DI_DB_CAT)	HYDROLOGIC_UNIT_CODE	Y
	HYDROLOGIC_UNIT_NAME	N
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	Y
	SECONDARY_TYPE	Y
Characteristic (TSRCHAR)	DISPLAY_NAME	Y
	FK_CHAR	N
Organization (DI_ORG)	ORGANIZATION_ID	Y
	ORGANIZATION_NAME	Y

Links From:

None.

Input Parameters:

None.

Links To:

Procedure	Web_Page	Button/Text
DW_County_Popup	STORET: Select Counties	Look Up
DW_HUC_Popup	STORET: Select a Hydrologic Unit Code (HUC)	Look Up
DW_Char_Popup	STORET: Characteristic Search Results	Search
DW_Station_Count	Station Search Summary	Continue

Output Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search	GEOGRAPHIC
The name of the selected State	AS_STATE
The names of the selected County(s) in a comma separated string	AS_COUNTY
The codes of the selected County(s) in a comma separated string	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees	MIN_LONG_DD
The Eastern Limit of a Latitude/Longitude query in decimal degrees	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees	MIN_LAT_DD
The direction of the Northern Limit	DIR_MAXLAT
The direction of the Southern Limit	DIR_MINLAT
The direction of the Eastern Limit	DIR_MAXLONG
The direction of the Western Limit	DIR_MINLONG
The Hydrologic Unit Code value	AS_HUC
A PI/Sql table of selected Station Types (Station Type Key List)	D_STYPE_LIST
Flag to identify whether a user wishes to filter stations based on Characteristic	CHARACTERISTIC
The names of the selected Characteristic(s) in a comma separated string	V_CHAR_NAMES
The search string used to identify available Characteristics	AS_CHAR
A PI/Sql table of selected Characteristics (Characteristic Key List)	CHAR_LIST

Natural Language	Parameter
Boolean flag used to signal whether taxonomic names should be included in characteristic searches	TAXON_FILTER
A PI/Sql table of selected Organizations (Organization Key List)	D_ORG_LIST

Internal Procedure Events:

Onload

- C Populate and format the Station Types list box with Primary and Secondary Station Type Names.
- C Populate and format the Organization list box with Organization IDs and Organization Names.
- C Populate the empty Selected Characteristics list box with a title and format with blank spaces.

Geographic Location Section

- C State/County 'Lookup' onclick: Display a pop-up window showing the available counties for the state currently selected from the drop-down list. Populate the County Name(s) textarea with the Counties that the user selects from the pop-up window.
- C HUC 'Lookup' onclick: Display a pop-up window showing all available HUC codes and their corresponding names. Populate the Cataloging Unit text box with the HUC code that the user selects from the pop-up window.

Characteristic Section

- C 'Search' onclick: Display a pop-up window showing the characteristics that match the search string entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string text box. If the user has not entered a search string, display an alert message prompting them to do so. Populate the Characteristics listbox with the characteristics the user selects from the pop-up window.
- C 'Clear Selected' onclick: All selected characteristics are removed from the characteristic select list.
- C 'Clear All' onclick: All characteristics are removed from the characteristic select list.

Form Level

- C 'Continue' onclick: The users inputs are validated and their selection criteria is passed to the next page of the web application for processing.
- C 'Clear Form' onclick: All values on the form are returned to their default values.

General

- C See DW_Top_of_Page Specifications for standard header and sidebar links on each page.
- C See DW_Bottom_of_page Specifications for standard footer links on each page.

Images:

See General Design guidelines for standard images on each page. The only images used on the STORET Data Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- C Only characteristics that have been recorded will be displayed.
- C Only Organizations with Stations will be displayed.
- C If the user selects a list of characteristics, Stations will be displayed that have results corresponding to one or more of the characteristics from that list.
- C If the user selects 'All' State/Counties, every station with a State and County code is included in the search.
- C If the user selects 'All' HUCs, every station with a HUC code is included in the search.
- C If the user selects defaults latitude/longitude values (i.e., N=90, S=0, E=0, W=180), every station with a Latitude and Longitude value is included in the search.
- C If a list of Station Types is selected that includes 'Select All', all Station Types are included in the search.
- C If a list of Organizations is selected that includes 'Select All', all Organizations are included in the search.

Error Handling:

- C A standard Error Page should be displayed when this page does not load upon request.

- C The user will not be allowed to enter non-numeric characters in the latitude/longitude fields.
- C An alert is displayed if the user attempts to perform a Characteristic search before entering a search string.
 - An alert is displayed if the user attempts to perform a County look-up before selecting a State.
 - The county field is reset to 'All' if the selected State is changed.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

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First half of Page:

STORET
U.S. Environmental Protection Agency

Recent Additions | Contact Us | Print Version Search:

EPA Home > Water > Wetlands, Oceans, & Watersheds > Monitoring and Assessing Water Quality > STORET > Data Warehouse

BETA - Station Search Criteria

Geographic Location

State/County State Name: County Name:

Latitude/Longitude North Limit: N West Limit: W East Limit: W South Limit: N

Drainage Basin/HUC Cataloguing Unit:

Station Type

Please select one or more Station Type(s)

PRIMARY TYPE	SECONDARY TYPE
Select All	
Canal	Drainage
Canal	Irrigation
Canal	Transport
Channelized stream	
Estuary	
Facility	Industrial
Facility	Municipal Sewage (POTW)
Facility	Municipal Water Supply (PWS)
Facility	Other/combined

Characteristic

Search All Available Stations
 Filter Stations by Characteristic

Characteristic Search: Hide Taxonomic Names

Selected Characteristics:

Second Half of Page:

EPA > STORET > BETA - Station Search Criteria - Microsoft Internet Explorer

Address http://oasdev.sdc-moses.com/storet/srpp/DW_STATIONCRITERIA

Facility Other/combined

Characteristic

Search All Available Stations
 Filter Stations by Characteristic

Characteristic Search

Search Hide Taxonomic Names

Selected Characteristics

Clear Selected Clear All

Organization

Please select one or more Organization(s)

ORG ID	ORGANIZATION NAME
Select All	
11146	The 3rd and 5th characters are spaces, no 7th or 8th char.
1111178	The 6th character is a space
11113300	New Hampshire Dept. of Environmental Services
1111REG1	USEPA, Region 1
1116AFCC	Arkansas Dept of Pollution Control & Ecology
1117NER	US EPA Region 7
1118EPA8	US EPA Region 8
1119USBR	Bureau of Reclamation
11COELMN	New Orleans District Corps of Engineers

Continue Clear Form

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Last updated on Tuesday, November 6th, 2002
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_STATIONCRITERIA

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1371

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station Count

Web Page Name: Station Search Summary

Date: 10/31/2002, 11/06/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The Station Search Summary page receives and processes a user's search parameters from the Station Search Criteria page, displays a summary of this information, and provides a count of the number of Stations that satisfy the search criteria. Based on this count, a user is able to decide whether they wish to create a report, see a list of available stations, or return to the Station Search Criteria page to refine their query. This page also allows a user to customize the reports they create by selecting the data elements they wish to include in their report.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
Station (FA_STATION)	LATITUDE	Y
	LONGITUDE	Y
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N

Entity	Attribute	Display
	FK_STATN_TYPES	N
	FK_ORG	N
HUC Code (DI_DB_CAT)	HYDROLOGIC_UNIT_CODE	Y
	HYDROLOGIC_UNIT_NAME	N
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	Y
	SECONDARY_TYPE	Y
Characteristic (TSRCHAR)	DISPLAY_NAME	Y
	FK_CHAR	N
Organization (DI_ORG)	ORGANIZATION_ID	Y
	ORGANIZATION_NAME	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	< Continue >

Input Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search	GEOGRAPHIC
The name of the selected State	AS_STATE
The names of the selected County(s) in a comma separated string	AS_COUNTY
The codes of the selected County(s) in a comma separated string	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees	MIN_LONG_DD

Natural Language	Parameter
The Eastern Limit of a Latitude/Longitude query in decimal degrees	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees	MIN_LAT_DD
The direction of the Northern Limit	DIR_MAXLAT
The direction of the Southern Limit	DIR_MINLAT
The direction of the Eastern Limit	DIR_MAXLONG
The direction of the Western Limit	DIR_MINLONG
The Hydrologic Unit Code value	AS_HUC
A PI/Sql table of selected Station Types (Station Type Key List)	D_STYPE_LIST
Flag to identify whether a user wishes to filter stations based on Characteristic	CHARACTERISTIC
The names of the selected Characteristic(s) in a comma separated string	V_CHAR_NAMES
The search string used to identify available Characteristics	AS_CHAR
A PI/Sql table of selected Characteristics (Characteristic Key List)	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches	TAXON_FILTER
A PI/Sql table of selected Organizations (Organization Key List)	D_ORG_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	< Back >
DW_Station_Hub_Custom	View Stations List	< Continue > when 'View Station List' is selected
DW_Station_Hub_Custom	Download Site Description	< Continue > when 'Download Report' is selected

Output Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting stations	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting stations	V_WHERESTMT
A Pl/Sql table of selected Columns for the report (Column Name List)	V_COLUMNS
Identifies whether the user wants to generate a report or first display a list of available stations that match their search criteria	REPORT_TYPE

Internal Procedure Events:

Onload

- C Display titles and values for the search criteria that the user selected on the previous page.
- C Display the number of Stations that match the search criteria that the user selected on the previous page.
- C Check the default report element check boxes (Organization ID, Station ID, Station Name, Primary Type, Latitude, Longitude, State Name, County Name).

Custom Report Section

- C 'Select All' onclick: Check all report element check boxes.
- C 'Clear All' onclick: Uncheck all report element check boxes.
- C 'Restore Defaults' onclick: Check only the default report elements.

Form Level

- C 'Continue >>' onclick: Call the procedure DW_Station_Download_Custom and pass it the processed Station search criteria (in the form of a SQL From clause and Where clause), the user's report preference ('Customized Report' or 'View list of Stations'), and the list of columns that the user has selected for their report.
- C '<< Back' onclick: Return to the Station Selection Criteria page.

General

- C See DW_Top_of_Page Specifications for standard header and sidebar links on each page.
- C See DW_Bottom_of_page Specifications for standard footer links on each page.

Images:

See General Design guidelines for standard images on each page. The only images used on the STORET Data Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- C Only display information for the geographic search option that has been selected (State/County, Latitude/Longitude, or HUC).
- C Always display the Station Types that have been selected. Display 'All' if the user has selected 'Select All' from the Station Type list.
- C Always display the Characteristics that have been selected. Display 'All' if the user has chosen not to filter stations based on Characteristic, or has not chosen specific Characteristics to search based upon.
- C Always display the Organizations that have been selected. Display 'All' if the user has selected 'All Available' from the Organization list.

Error Handling:

- C A standard Error Page should be displayed when this page does not load upon request.
- C An alert is displayed if the user attempts to generate a report without having at least one report element selected.
- C Enforces report size restrictions as directed by the TOPO.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

This page will be updated once the development of the page is completed.

First half of Page:

EPA > STORET > BETA - Station Search Summary - Microsoft Internet Explorer

Address: http://oasdev.sdc-moses.com/storet/srpp/DW_STATION_COUNT

U.S. Environmental Protection Agency

STORET

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BETA - Station Search Summary

Number of Stations Returned: 456

Search Parameter Values

State: FLORIDA

County: BRADFORD, BREVARD, BROWARD

Station Type(s): Estuary-

Characteristic(s): ALL

Organization(s): ALL

Select 'Back' to modify search parameters and refine your query.
Select 'Continue' to generate a report based on your current selections.
You may customize the content of your report by selecting 'Custom Report' below

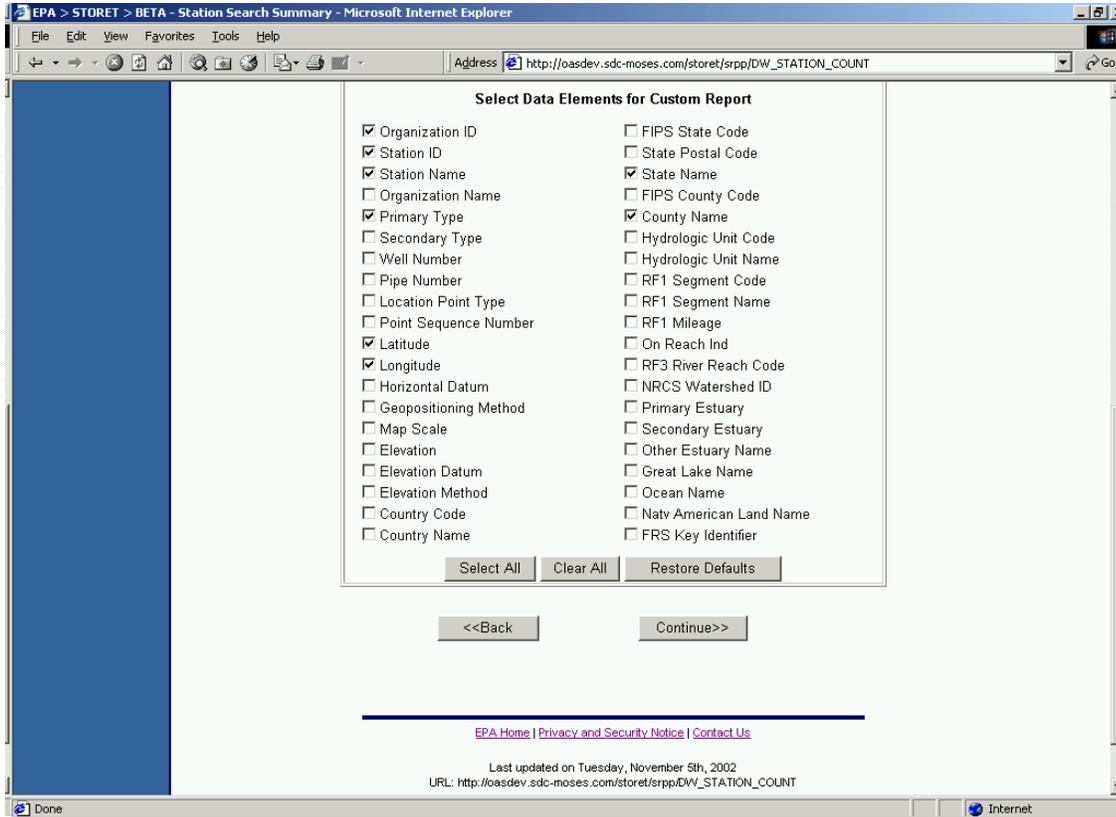
Download Report
 View Station List

Select Data Elements for Custom Report

Organization ID FIPS State Code

Station ID State Report Code

Second Half of Page:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1370

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Download_Custom

Web Page Name: None

Date: 11/4/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The DW_Station_Download_Custom procedure receives processed search criteria and the list of requested report elements from the DW_Station_Hub_Custom procedure, and generates a tilde delimited text file report based on this information. The name of the text file is returned to DW_Station_Hub_Custom so that a link to the file can be displayed to the user. The created report contains only the columns that correspond to the report elements selected by the user. The titles for these columns are displayed as the first line of text in the report.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
HUC Code (DI_DB_CAT)	HYDROLOGIC_UNIT_NAME	N
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	N
	SECONDARY_TYPE	N
Organization (DI_ORG)	ORGANIZATION_NAME	N
State (DI_GEO_STATE)	STATE_NAME	N
	COUNTRY_NAME	N

Entity	Attribute	Display
County (DI_GEO_COUNTY)	COUNTY_NAME	N
Station (FA_STATION)	STATION_ID	N
	STATION_NAME	N
	ORGANIZATION_ID	N
	LOCATION_POINT_TYPE	N
	POINT_SEQUENCE_NUMBER	N
	WELL_NUMBER	N
	PIPE_NUMBER	N
	LATITUDE	N
	LONGITUDE	N
	MAP_SCALE	N
	ELEVATION	N
	COUNTRY_CODE	N
	FIPS_STATE_CODE	N
	STATE_POSTAL_CODE	N
	FIPS_COUNTY_CODE	N
	HYDROLOGIC_UNIT_CODE	N
	RF1_SEGMENT_CODE	N
	RF1_SEGMENT_NAME	N
	RF1_MILEAGE	N
	ON_REACH_IND	N
	RF3_RIVER_REACH_CODE	N
	NRCS_WATERSHED_ID	N
	OTHER_ESTUARY_NAME	N
	GREAT_LAKE_NAME	N
	OCEAN_NAME	N
	NATV_AMERICAN_LAND_NAME	N

Entity	Attribute	Display
	C1_VARS.FRS_KEY_IDENTIFIER	N
Horizontal Datum (LU_MAD_HDATUM)	HORIZONTAL_DATUM	N
Horizontal Method (LU_MAD_HMETHOD)	GEOPOSITIONING_METHOD	N
Vertical Datum (LU_MAD_VDATUM)	ELEVATION_DATUM	N
Vertical Method (LU_MAD_VMETHOD)	ELEVATION_METHOD	N
Primary Estuary (LU_ESTRY_PRIMARY)	PRIMARY_ESTUARY	N
Secondary Estuary (LU_ESTRY_SECONDARY)	SECONDARY_ESTUARY	N
Column Names (APP_COLUMN_NAME)	COL_NAME	N
	PRINT_NAME	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Hub_Custom	Download Site Descriptions	None (called automatically during load)

Input Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting stations	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting stations	V_WHERESTMT
A PI/Sql table of selected Columns for the report (Column Name List)	V_COLUMNS
Used to pass a report file name to this procedure. This is set to 'NONE' for non-batched reports.	FILENAME

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Hub_Custom	Download Site Descriptions	None (called automatically during load)

Output Parameters:

Natural Language	Parameter
The file name used for report generation. This is passed so that a link to the report can be created.	OUT_FILE

Internal Procedure Events:

Onload

- C Generate report based on received parameters, and return file name.

Images:

None.

Business Rules:

- C Display Column Titles based on the report elements selected and the contents of the APP_COLUMN_NAME table. See chart below for a list of these titles.
- C Display only the columns that correspond to the list of selected report elements.
- C Separate all report columns with the tilde sign ('~').
- C Do not return the name of the report file created until report generation has completed.
- C Display report columns in the order listed below

Column Title	Table Name	Column Name
Organization ID	FA_STATION	organization_id
Station ID	FA_STATION	station_id
Station Name	FA_STATION	station_name
Organization Name	DI_ORG	organization_name
Primary Type	DI_STATN_TYPES	primary_type
Secondary Type	DI_STATN_TYPES	secondary_type
Well Number	FA_STATION	well_number
Pipe Number	FA_STATION	pipe_number
Location Point Type	FA_STATION	location_point_type
Point Sequence Number	FA_STATION	point_sequence_number
Latitude	FA_STATION	latitude
Longitude	FA_STATION	longitude
Horizontal Datum	LU_MAD_HDATUM	horizontal_datum
Geopositioning Method	LU_MAD_HMETHOD	geopositioning_method
Map Scale	FA_STATION	map_scale
Elevation	FA_STATION	elevation
Elevation Datum	LU_MAD_VDATUM	elevation_datum
Elevation Method	LU_MAD_VMETHOD	elevation_method
Country Code	FA_STATION	country_code
Country Name	DI_GEO_STATE	country_name
FIPS State Code	FA_STATION	fips_state_code
State Postal Code	FA_STATION	state_postal_code
State Name	DI_GEO_STATE	state_name
FIPS County Code	FA_STATION	fips_county_code
County Name	DI_GEO_COUNTY	county_name
Hydrologic Unit Code	FA_STATION	hydrologic_unit_code
Hydrologic Unit Name	DI_DB_CAT	hydrologic_unit_name

Column Title	Table Name	Column Name
RF1 Segment Code	FA_STATION	rf1_segment_code
RF1 Segment Name	FA_STATION	rf1_segment_name
RF1 Mileage	FA_STATION	rf1_mileage
On Reach Ind	FA_STATION	on_reach_ind
RF3 River Reach Code	FA_STATION	rf3_river_reach_code
NRCS Watershed ID	FA_STATION	nrcs_watershed_id
Primary Estuary	LU_ESTRY_PRIMARY	primary_estuary
Secondary Estuary	LU_ESTRY_SECONDARY	secondary_estuary
Other Estuary Name	FA_STATION	other_estuary_name
Great Lake Name	FA_STATION	great_lake_name
Ocean Name	FA_STATION	ocean_name
Natv American Land Name	FA_STATION	natv_american_land_name
FRS Key Identifier	FA_STATION	frs_key_identifier

Error Handling:

- C A standard Error Page should be displayed when this page does not load upon request.
- C Capture standard file creation (disk I/O) errors and display customized messages if they occur.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

None. See DW_Station_Hub_Custom.

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1370, 1378

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Hub_Custom

Web Page Name: View Station List/Download Report

Date: 11/4/2002

Completed By: Joseph Wilson

Process Over view/Description:

The DW_Station_Hub_Custom procedure generates one of two pages depending on a user's selection. This procedure serves as a gatekeeper that generates the page header, side bar, and footer, then passes control to the appropriate supporting procedure. If the user chooses 'View Station List', the procedure DW_Station_List is called and passed the required parameters. If the user chooses 'Create Report', the procedure DW_Station_Download_Custom is called and passed the required parameters.

Entities Used:

(Display Fields are listed in the order they are displayed)

None.

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Count	Station Search Summary	<Continue>

Input Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting stations	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting stations	V_WHERESTMT
A PI/Sql table of selected Columns for the report (Column Name List)	V_COLUMNS
Identifies whether the user wants to generate a report or first display a list of available stations that match their search criteria	REPORT_TYPE
The file name used for report generation [This is passed from the report generating procedure (DW_STATION_DOWNLOAD_CUSTOM) back to this procedure after the report is complete.]	OUT_FILE

Links To:

Procedure	Web_Page	Button/Text
DW_Station_List	View Stations List	Called automatically when 'View Station List' is selected
DW_Station_Download_Custom	Download Site Description	Called automatically when 'Download Report' is selected

Output Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting stations	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting stations	V_WHERESTMT
A PI/Sql table of selected Columns for the report (Column Name List)	V_COLUMNS

Natural Language	Parameter
Used to pass a file name to the report generating procedure (DW_STATION_DOWNLOAD_CUSTOM). This is set to 'NONE' for non-batched reports.	FILENAME

Internal Procedure Events:

Onload

- C Determine if the user has selected 'Download Report' or 'View Station List'.

If Download Report is Selected

- C Call DW_Report_Download_Custom and pass all the Output Parameters listed above.
- C Display a link to the report file that is created using the value of OUT_FILE that is returned from DW_Report_Download_Custom.
- C See DW_Report_Download_Custom for more details.

If View Station List is Selected

- C Call DW_Station_List and pass V_FROMSTMT and V_WHERESTMT.
- C See DW_Station_list for more details.

General

- C See DW_Top_of_Page Specifications for standard header and sidebar links on each page.
- C See DW_Bottom_of_page Specifications for standard footer links on each page.

Images:

See General Design guidelines for standard images on each page. The only images used on the STORET Data Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

None.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.

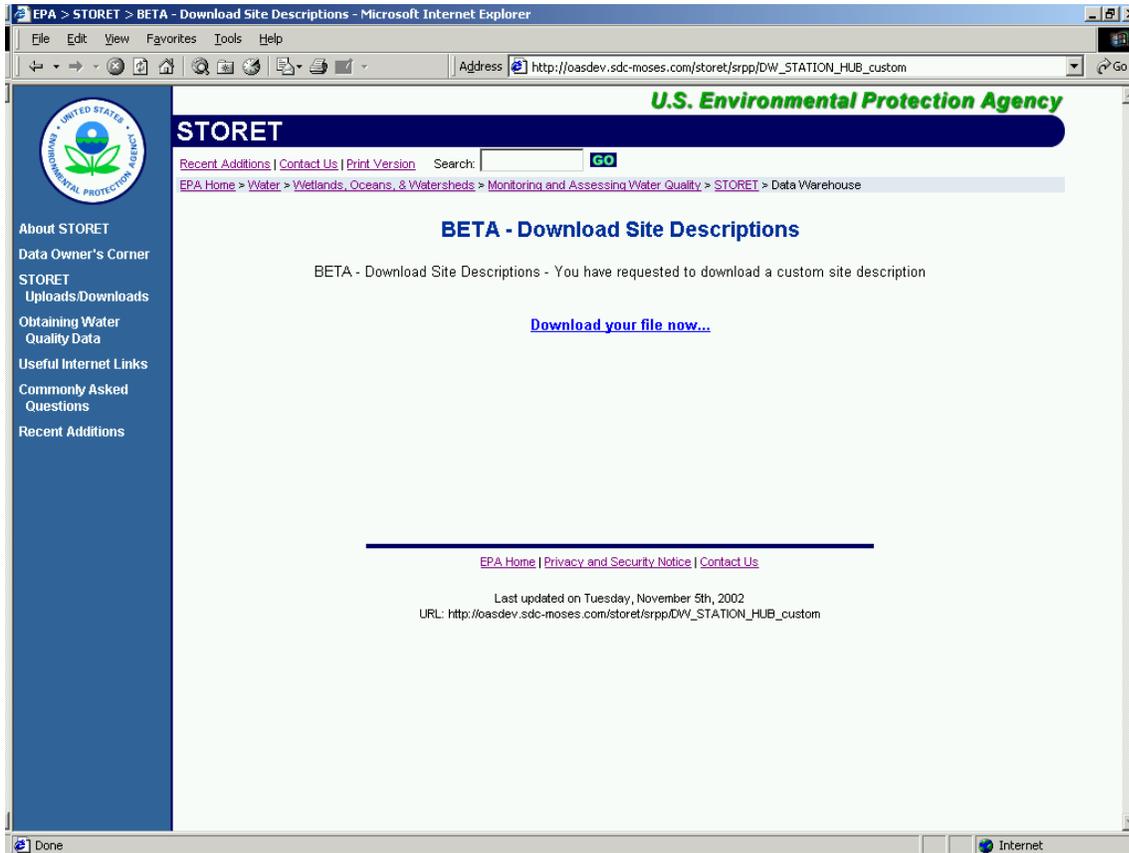
Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

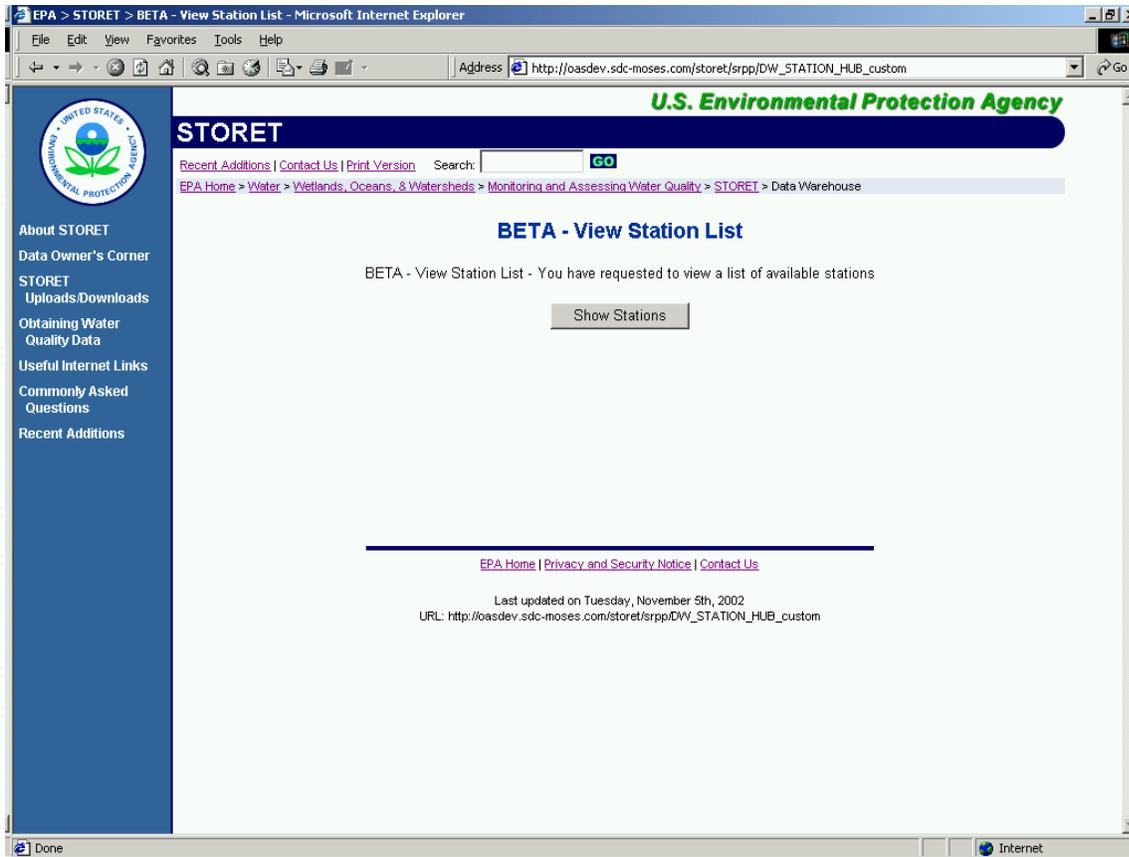
Page Print:

This page will be updated once the development of the page is completed.

Download Report:



View Station List:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1378

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_List

Web Page Name: None

Date: 11/4/2002

Completed By: Joseph Wilson

Processing Overview/Description:

The DW_Station_List procedure receives processed Station search criteria from the DW_Station_Hub_Custom procedure, and generates a hidden list of Station IDs and Organization IDs based on this information. This list can be passed to the Station Selection page of the existing STORET Web Application. This allows for integration between the two applications and enables the user to leverage the existing STORET Web Application to generate Activity and Result reports based on the station list they create with the data warehouse.

Tables:

(Display Fields are listed in the order they are displayed)

Entity	Attribute	Display
Station (FA_STATION)	STATION_ID	N
	ORGANIZATION_ID	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Hub_Custom	View Station List	None (called automatically during load)

Input Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting stations	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting stations	V_WHERESTMT

Links To:

Procedure	Web_Page	Button/Text
Station_Selection	Station Selection	Show Stations

Output Parameters:

Natural Language	Parameter
A Pl/Sql table containing the Station Ids and Organization Ids of the Stations to be included in the Station Selection List.	D_STATION_ID_LIST
The list of Organizations to filter by. 'All' is sent by default.	D_ORG_LIST
The list of Station Types to filter by. 'All' is sent by default.	D_STYPE_LIST

Internal Procedure Events:

Onload

- C Generate Station Id/Organization Id list based on received parameters.

Images:

None.

Business Rules:

- C Create a list of specific stations (based on their Station ID and Organization ID) to display on the Station Selection page of the existing STORET Web application. Note: This list is hidden from the user.
- C Display a button to submit this list of stations to the Station Selection page. Note: This button is displayed on the Show Station List page created by the DW_Station_Hub_Custom procedure.

Error Handling:

- C A standard Error Page should be displayed when this page does not load upon request.

Code Changes:

(Placeholder for any changes that may be required after the program has been marked 'To PA'.)

Page Print:

None. (See DW_Station_Hub_Custom.)

