



Software Release Notes for Data Warehouse Installation Package, ETL Software Package, STORET Warehouse Web Interface v2.0, and Associated Documentation

United States Environmental
Protection Agency

Office of Wetlands, Oceans and
Watersheds

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**SOFTWARE RELEASE NOTES
FOR
DATA WAREHOUSE INSTALLATION PACKAGE,
ETL SOFTWARE PACKAGE,
STORET WAREHOUSE WEB INTERFACE V2.0,
AND
ASSOCIATED DOCUMENTATION**

**CONTRACT NO. 68-W-99-002
TASK ORDER NO. 014**

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1.0 INTRODUCTION

The STORET Central Warehouse operates as a retrieval mechanism for data submitted to the Environmental Protection Agency (EPA) by STORET users. The *Data Warehouse Installation Package* (21-2.1), *Extract, Transfer, and Load (ETL) Software Package* (21-3.2) and *STORage and RETrieval (STORET) Warehouse Web Interface v2.0* (21-4.2) deliverables provide functionality for the STORET Central Warehouse as a combined software release. The ETL software populates the STORET Central Warehouse tables with data from the STORET v2.0 tables, and a Web Interface allows for the selective retrieval of data from the STORET Central Warehouse tables.

The complete design specifications for the STORET Central Warehouse are contained in Appendix A.

1.1 Purpose

These release notes provide an overview of the STORET Central Warehouse functionality, and installation instruction. The associated system documentation is provided as appendices.

This release of the STORET Central Warehouse includes the functionality provided by previous STORET Central Warehouse beta software deliverables (i.e., C1.1B, C1.1B.1, C1.1B.2, C1.1B.3, C1.1B.4) and is compatible with a STORET v2.0 database.

1.2 Identification

This version of the STORET Central Warehouse is identified and tracked under the configuration identifier C2.0, and is being provided to the Office of Wetlands, Oceans, and Watersheds (OWOW), Assessment and Watershed Protection Division, Monitoring Branch, STORET Task Order Project Officer (TOPO).

2.0 REFERENCES

The STORET Project Plan dated October 16, 2002 was the basis for development of the STORET Central Warehouse. The design specifications which comprise the *Design Document* for the STORET Central Warehouse are included as Appendix A. Tables which show column mappings from the STORET v2.0 tables to the STORET Central Warehouse tables are provided in Appendix B.

3.0 SUMMARY OF FUNCTIONALITY

This deliverable contains software to create the warehouse table structure, populate the warehouse tables with data from normalized STORET tables (i.e., ETL), and provide a Web Application interface for accessing and reporting the STORET Central Warehouse data. A summary of the functionality provided by this suite of software is described below.

3.1 New Functionality

STORET Central Warehouse v2.0 is the first production release. Included in this initial release are the following functionality.

- C Create ability to retrieve Stations based on Station Type.
- C Create Help to support all areas of the Central Warehouse interface.
- C Create ability to display a Station Summary of count information based on the user's selected search parameters.
- C Create ability to retrieve Stations based on Latitude/Longitude.
- C Create ability to retrieve Stations based on Organization.
- C Create ability to retrieve Stations based on Stations that have monitoring Results for a given Characteristic(s) at the Station.
- C Create ability to retrieve Stations based on State/County Assignment.
- C Create ability to retrieve Stations based on Hydrologic Unit Code (HUC) Assignment.
- C Create ability to retrieve Results based on Organization.
- C Create ability to retrieve Results based on an Activity Start Date range.
- C Create ability to retrieve Results based on a Station's Point of Record (POR) location falling in or on a user defined rectangle delineated by two Longitude and two Latitude points.
- C Create ability to retrieve Results based on Characteristic Name and Characteristic Alias.
- C Create ability to retrieve Results based on Station ID, Station Name, and Station Alias.

- C Create ability to retrieve Results based on Primary State/County Assignment.
- C Create ability to retrieve Results based on a single HUC.
- C Create ability to retrieve Results based on Project to Activity Assignments.
- C Create ability to retrieve Results based on Activity Medium.
- C Create ability to retrieve Results based on Community Sampled and Activity Intent.
- C Create ability to generate a customized report containing Station information.
- C Create ability to generate a customized Result report containing Physical and Chemical results.
- C Create ability to generate a customized Result report containing Biological results.
- C Create ability to generate a customized Result report containing Habitat Assessment results.
- C Create ability to display a Result Summary of count information based on the user's selected search parameters.
- C Create web homepage which provides access to Central Warehouse Interface functionality.

3.2 Improved Functionality

There is no improved functionality.

4.0 DEGREE OF FUNCTIONALITY BEING PROVIDED

The software provided by this release fulfills the requirements agreed to with the TOPO, and has been developed in accordance with the technical specifications. No unresolved discrepancies are known to exist upon conclusion of Unit, Integration, and System Acceptance testing.

5.0 INSTALLATION INSTRUCTIONS

This section contains the step-by-step installation instructions to create the STORET Central Warehouse, and install the associated Web Application. There are six noteworthy items regarding the installation as follows:

- C Edit the scripts for database usernames, passwords, connect strings, and tablespace names.
- C Scripts must be run in the order listed to ensure correct software installation.
- C Log files are created for each of the Structured Query Language (SQL) scripts listed in these instructions. These log files have parallel names and directory locations as the scripts that create them. Log files should be checked for errors after each step of the installation process to ensure the installation completes successfully.
- C A rollback segment named RBSBIG must exist and be on-line.
- C Oracle archiving should be turned off when running the ETL scripts.
- C Copy the storetw directory from the “Release C2.0\Software” directory to your C:\ drive. NOTE: The installation package is not dependent upon a specific drive letter. If the installation package is placed on a different drive, replace “C:” with the letter of that drive in the following instructions.

Execute the following steps to install the STORET Central Warehouse by performing the cited action and/or running the SQL scripts listed under each action.

1. Open a SQL*Plus session.
2. Create storetw schema with appropriate system and object privileges.
@C:\storetw\storetw\storetw.sql;
3. Create the functions used by the ETL scripts.
@C:\storetw\functions\f_createflbrmk.sql;
@C:\storetw\functions\f_estry.sql;
@C:\storetw\functions\f_mad.sql;
@C:\storetw\functions\f_station_visited.sql;
@C:\storetw\functions\f_fieldset.sql;
@C:\storetw\functions\f_createFNAICS.sql;
@C:\storetw\functions\f_biopt.sql;

- @C:\storetw\functions\f_prmvl.sql;
@c:\storetw\functions\f_char_name.sql;
4. Create FA_STATION table.
@C:\storetw\fa_statn\fa_station_table.sql;
 5. Create Characteristic tables.
@C:\storetw\char_stn\char_stn_table.sql;
@C:\storetw\char_stn\char_table.sql;
 6. Create Drainage Basin tables.
@C:\storetw\drainagebasin\db_tables.sql;
 7. Create Geographical tables (state/county).
@C:\storetw\geopa\geo_tables.sql;
 8. Create Method and Datum (MAD) code tables.
@C:\storetw\mad\mad_tables.sql;
 9. Create Organization table.
@C:\storetw\org\org_tables.sql;
 10. Create Station Types table.
@C:\storetw\statn_types\statn_types_tables.sql;
 11. Create Estuary tables.
@C:\storetw\estuary\estry_tables.sql;
 12. Drop unnecessary columns from FA_STATION table.
@C:\storetw\fa_statn\fa_station_drop_cols.sql;
 13. Create DI_DATE table.
@C:\storetw\di_date\di_date_table.sql;
 14. Create FA_REGULAR_RESULT table.
@C:\storetw\fa_regular_result\fa_regular_result_table.sql;
@C:\storetw\fa_regular_result\fa_regular_result_data1.sql;
@C:\storetw\fa_regular_result\fa_regular_result_pdl_data1.sql;
@C:\storetw\fa_regular_result\create_temp_tables.sql;
@C:\storetw\fa_regular_result\fa_regular_result_data2.sql;

15. Create FA_BIOLOGICAL_RESULT table.
@C:\storetw\fa_biological_result\fa_bio_result_table.sql;
@C:\storetw\fa_biological_result\fa_bio_result_data1.sql;
@C:\storetw\fa_biological_result\create_bio_temp_tables.sql;
@C:\storetw\fa_biological_result\fa_bio_result_data2.sql;
16. Create FA_HABITAT_RESULT table.
@C:\storetw\fa_habitat_result\fa_habitat_result_table.sql;
@C:\storetw\fa_habitat_result\fa_habitat_result_data1.sql;
@C:\storetw\fa_habitat_result\create_habitat_temp_tables.sql;
@C:\storetw\fa_habitat_result\fa_habitat_result_data2.sql;
17. Create DI_ACT_MEDIUM table.
@C:\storetw\di_act_medium\di_act_medium.sql;
18. Create result fact table indexes.
@C:\storetw\fa_regular_result\fa_regular_result_index.sql;
@C:\storetw\fa_biological_result\fa_bio_result_index.sql;
@C:\storetw\fa_habitat_result\fa_habitat_result_index.sql;
19. Create LU_CHAR_ALIAS AND LU_CHAR_ALIAS_TYPE tables.
@C:\storetw\lu_char_alias\lu_char_alias.sql;
20. Create DI_PROJECT table and the associated relationship tables.
@C:\storetw\di_project\di_project_table.sql;
@C:\storetw\di_project\project_rel_tables.sql;
21. Create the LU_STATION_ALIAS table.
@C:\storetw\lu_station_alias\lu_station_alias.sql;
22. Create the remaining dimension tables (i.e., DI_ACTIVITY_INTENT, DI_COMMUNITY_SAMPLED, DI_SUBJECT_TAXON, DI_GROUP_TYPE, DI_BIOPART, and DI_ACTIVITY_MATRIX).
@C:\storetw\di_activity_intent\di_activity_intent.sql;
@C:\storetw\di_community_sampled\di_community_sampled.sql;
@C:\storetw\di_subject_taxon\di_subject_taxon.sql;
@C:\storetw\di_group_type\di_group_type.sql;
@C:\storetw\di_biopart\di_biopart.sql;
@C:\storetw\di_activity_matrix\di_activity_matrix.sql;

23. Finish building the FA_REGULAR_RESULT table.
@C:\storetw\fa_regular_result\fa_regular_result_const.sql;
@C:\storetw\fa_regular_result\fa_regular_result_drop_cols.sql;
24. Finish building the FA_BIOLOGICAL_RESULT table.
@C:\storetw\fa_biological_result\fa_bio_result_const.sql;
@C:\storetw\fa_biological_result\fa_bio_result_drop_cols.sql;
25. Finish building the FA_HABITAT_RESULT table.
@C:\storetw\fa_habitat_result\fa_habitat_result_const.sql;
@C:\storetw\fa_habitat_result\fa_habitat_result_drop_cols.sql;
26. Analyze database objects and performance tune.
@C:\storetw\analyze_objects.sql;
@C:\storetw\performance_tuning.sql;
27. Delete temporary tables.
@C:\storetw\drop_temp_tables.sql;

The ETL process is now complete. Perform the remaining steps for installing the Web Application interface.

28. Create report customization related table and materialized views.
@C:\storetw\application\APP_COLUMN_NAME.sql;
@C:\storetw\materialized_views.sql;
29. Alter the file C:\storetw\application\DW_glob_var.sql to reflect the directory structure of the environment where the software is being installed. The global variables established in this package should have values identical to the values in the glob_var.sql file included with the existing STORET Web Application with one exception; the file name section of the variable lv_script_path should be set to "DW_storet.js".
30. Create the global variables package as storetw.
@C:\storetw\application\DW_glob_var.sql;
31. Create the web application procedures as storetw.
@C:\storetw\application\procedures\DW_huc_popup.sql;
@C:\storetw\application\procedures\DW_counties_popup.sql;
@C:\storetw\application\procedures\DW_top_of_page.sql;
@C:\storetw\application\procedures\DW_bottom_of_page.sql;
@C:\storetw\application\procedures\DW_display_calendar.sql;
@C:\storetw\application\procedures\DW_geo_select.sql;

@C:\storetw\application\procedures\DW_date_select.sql;
@C:\storetw\application\procedures\DW_char_select.sql;
@C:\storetw\application\procedures\DW_project_select.sql;
@C:\storetw\application\procedures\DW_station_select.sql;
@C:\storetw\application\procedures\DW_medium_select.sql;
@C:\storetw\application\procedures\DW_community_select.sql;
@C:\storetw\application\procedures\DW_selection_criteria.sql;
@C:\storetw\application\procedures\DW_station_count.sql;
@C:\storetw\application\procedures\DW_station_download_custom.sql;
@C:\storetw\application\procedures\DW_station_hub_custom.sql;
@C:\storetw\application\procedures\DW_proj_popup.sql;
@C:\storetw\application\procedures\DW_char_alias_popup.sql;
@C:\storetw\application\procedures\DW_station_popup.sql;
@C:\storetw\application\procedures\DW_extref_popup.sql;
@C:\storetw\application\procedures\DW_result_criteria_geo.sql;
@C:\storetw\application\procedures\DW_result_criteria_project.sql;
@C:\storetw\application\procedures\DW_result_criteria_station.sql;
@C:\storetw\application\procedures\DW_bio_result_criteria_geo.sql;
@C:\storetw\application\procedures\DW_bio_result_criteria_project.sql;
@C:\storetw\application\procedures\DW_bio_result_criteria_station.sql;
@C:\storetw\application\procedures\DW_hab_result_criteria_geo.sql;
@C:\storetw\application\procedures\DW_hab_result_criteria_project.sql;
@C:\storetw\application\procedures\DW_hab_result_criteria_station.sql;
@C:\storetw\application\procedures\DW_result_count.sql;
@C:\storetw\application\procedures\DW_result_download_custom.sql;
@C:\storetw\application\procedures\DW_result_hub_custom.sql;
@C:\storetw\application\procedures\DW_home.sql;

32. Copy the application's JavaScript library file into the scripts directory indicated in the global variables script (see step 29).
C:\storetw\application\scripts\DW_storet.js
33. Copy the application's Help and the associated image files into the HTML documents directory indicated in the global variables script (see item 29).
C:\storetw\application\doc\DW_storet_help.html
C:\storetw\application\doc\lat_long_ex.gif
34. Grant execute privileges to user storetw then create synonyms for the procedures as storetw.
@C:\storetw\application\procedures\DW_GRANTS_AND_SYNS.sql;

APPENDIX A

Technical Specifications

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1502, 1532

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Bio_Result_Criteria_Geo

Web Page Name: Biological Results by Geographic Location

Date: 8/06/2003

Completed By: Joseph Wilson

Specification Last Modified By: Christine Tsang 8/07/2003; Joseph Wilson 9/03/2003

Processing Overview/Description:

The Biological Results by Geographic Location page is the first Biological Result search page of the STORET Central Warehouse and provides four major search areas: Geographic Location, Date, Activity Intent and Community Sampled, and Characteristic. A user is able to accept default values 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-dimensions per Result query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Results by Geographic Location

Input Parameters:

These parameters are passed from the three Popup windows (DW_County_Popup, DW_HUC_Popup, and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
A PI/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

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_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search. By default this value is 'StateCounty'.	GEOGRAPHIC
The name of the selected State. By default this value is 'ALL'.	AS_STATE
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 90.	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees. By default this value is 180.	MIN_LONG_DD
The Eastern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MIN_LAT_DD
The direction of the Northern Limit. By default this value is N.	DIR_MAXLAT
The direction of the Southern Limit. By default this value is N.	DIR_MINLAT
The direction of the Eastern Limit. By default this value is W.	DIR_MAXLONG
The direction of the Western Limit. By default this value is W.	DIR_MINLONG
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1

Natural Language	Parameter
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3

Natural Language	Parameter
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags(). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A PI/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER

Natural Language	Parameter
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Intent (Intent Key List).	D_INTENT_LIST
A Pl/Sql table of selected Community Sampled (Community Sampled Key List).	D_COMMUNITY_LIST

Internal Procedure Events:

Onload

- Populate the State Name list box with State Names organized alphabetically by country (with the U. S. first followed by Mexico and Canada).
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Populate and format the Activity Intent list box with Activity Intent names.
- Populate and format the Community Sampled list box with Community Sampled names.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Geographic Location Section

- 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) text area with the Counties that the user selects from the pop-up window.
- 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.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.

- If the user selects 'All' State/Counties, all result records are included in the search.
- If the user selects 'All' HUCs, all result records are included in the search.
- If the user selects default latitude/longitude values (i.e., N=90, S=0, E=0, W=180), all result records are included in the search.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To Date = current date), all result records are included in the search.
- Selected Community Sampled are included in the search only if Intent is 'Select All' or 'Taxon Abundance'.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- The user will not be allowed to proceed to the next page if a non-numeric character is entered in the Latitude/Longitude fields or if the entry is outside the Latitude/Longitude permitted value range.
- 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.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g. Jan 1, 2003 - Jan 1, 1900).

Code Changes:

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


Page Print:

First half of page.

EPA > STORET > Biological Results by Geographic Location - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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

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Biological Results by Geographic Location

Geographic Location

Select a single type of location search that you wish to perform (state/county, latitude/longitude, or HUC). Then enter the corresponding search criteria.

<input checked="" type="radio"/> State/County	State Name <input type="text" value="ALL"/>	County Name <input type="text" value="ALL"/>	<input type="button" value="Look Up"/>								
<input type="radio"/> Latitude/Longitude (in decimal degrees)	<table><tr><td>West Limit</td><td><input type="text" value="90"/> <input type="text" value="N"/></td><td>East Limit</td><td><input type="text" value="0"/> <input type="text" value="W"/></td></tr><tr><td><input type="text" value="180"/> <input type="text" value="W"/></td><td>South Limit</td><td><input type="text" value="0"/> <input type="text" value="N"/></td><td></td></tr></table>			West Limit	<input type="text" value="90"/> <input type="text" value="N"/>	East Limit	<input type="text" value="0"/> <input type="text" value="W"/>	<input type="text" value="180"/> <input type="text" value="W"/>	South Limit	<input type="text" value="0"/> <input type="text" value="N"/>	
West Limit	<input type="text" value="90"/> <input type="text" value="N"/>	East Limit	<input type="text" value="0"/> <input type="text" value="W"/>								
<input type="text" value="180"/> <input type="text" value="W"/>	South Limit	<input type="text" value="0"/> <input type="text" value="N"/>									
<input type="radio"/> Drainage Basin/HUC	Cataloging Unit <input type="text" value="ALL"/>	<input type="button" value="Look Up"/>									

Date

Specify Activity Start Date range(s)

Date Range 1:	<input type="text" value="JAN"/> <input type="text" value="1"/> <input type="text" value="1900"/>	To	<input type="text" value="SEP"/> <input type="text" value="3"/> <input type="text" value="2003"/>
Date Range 2:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>
Date Range 3:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>
Date Range 4:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>

Done Internet

Second half of page.

EPA > STORET > Biological Results by Geographic Location - Microsoft Internet Explorer

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

Activity Intent and Community Sampled

Select one or more Activity Intent

ACTIVITY INTENT

- Select All
- Individual
- Taxon Abundance
- Tissue

If Intent is Taxon Abundance, select one or more Community Sampled

COMMUNITY SAMPLED

- Select All
- Aquatic Vegetation
- Bacteria/Virus
- Benthic Macroinvertebrates
- Birds
- Fish/Nekton
- Mammals

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search

Characteristic Alias Type: STORET DEFAULT

Search ☒ Hide Taxonomic Names

Characteristic Name

Clear Selected Clear All

Continue Clear Form

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_bio_resultcriteria_geo

Done Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1502, 1532

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Bio_Result_Criteria_Project

Web Page Name: Biological Results by Project

Date: 8/6/2003

Completed By: Joseph Wilson

Specification Last Modified By: Christine Tsang 8/07/2003; Joseph Wilson 9/03/2003

Processing Overview/Description:

The Biological Results by Project page is the third Biological Result search page of the STORET Central Warehouse and provides four major search areas: Organization/Project, Date, Activity Intent and Community Sampled, and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select a single Project from a single Organization. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Results by Project

Input Parameters:

These parameters are passed from the two Popup windows (DW_Project_Popup and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Project_Popup	STORET: Select Project	Look Up
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST

Natural Language	Parameter
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3

Natural Language	Parameter
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE

Natural Language	Parameter
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is 'ON'.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Intent (Intent Key List).	D_INTENT_LIST
A Pl/Sql table of selected Community Sampled (Community Sampled Key List).	D_COMMUNITY_LIST

Internal Procedure Events:

Onload

- Populate and format the Organization list box with Organization IDs and Names organized by Organization ID.
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Populate and format the Activity Intent list box with Activity Intent names.
- Populate and format the Community Sampled list box with Community Sampled names.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Organization/Project Section

- Project 'Lookup' onclick: Display a pop-up window showing the available Projects for the Organization currently selected from the drop-down list. Populate the Project Name textbox with the Project that the user selects from the pop-up window and populate the hidden variable D_PROJ_LIST with the corresponding key.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.

- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- If the user has selected an Organization but does not select a Project, data for the selected Organization is retrieved for the report.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.
- Selected Community Sampled are included in the search only if Intent is 'Select All' or 'Taxon Abundance'.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Project look-up before selecting an Organization.
- The Project field is reset to 'Select a Project' if the selected Organization is changed.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900).

Code Changes:

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

Page Print:

First half of page.

EPA > STORET > Biological Results by Project - Microsoft Internet Explorer

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

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Biological Results by Project

Project

Step 1: Select a Single Organization from the List

ORG ID	ORGANIZATION NAME
Select an Organization	

Step 2: Select a Single Project by Clicking "Look Up"

Select a Project

Date

Specify Activity Start Date range(s)

Date Range 1:	JAN	1	1900	To	SEP	3	2003
Date Range 2:	---	---	----	To	---	---	----
Date Range 3:	---	---	----	To	---	---	----
Date Range 4:	---	---	----	To	---	---	----

Activity Intent and Community Sampled

<p>Select one or more Activity Intent</p> <table border="1"><thead><tr><th>ACTIVITY INTENT</th></tr></thead><tbody><tr><td>Select All</td></tr><tr><td>Individual</td></tr><tr><td>Taxon Abundance</td></tr><tr><td>Tissue</td></tr></tbody></table>	ACTIVITY INTENT	Select All	Individual	Taxon Abundance	Tissue	<p>If Intent is Taxon Abundance, select one or more Community Sampled</p> <table border="1"><thead><tr><th>COMMUNITY SAMPLED</th></tr></thead><tbody><tr><td>Select All</td></tr><tr><td>Aquatic Vegetation</td></tr><tr><td>Bacteria/Virus</td></tr><tr><td>Benthic Macroinvertebrates</td></tr><tr><td>Birds</td></tr><tr><td>Fish/Wekton</td></tr><tr><td>Mammals</td></tr></tbody></table>	COMMUNITY SAMPLED	Select All	Aquatic Vegetation	Bacteria/Virus	Benthic Macroinvertebrates	Birds	Fish/Wekton	Mammals
ACTIVITY INTENT														
Select All														
Individual														
Taxon Abundance														
Tissue														
COMMUNITY SAMPLED														
Select All														
Aquatic Vegetation														
Bacteria/Virus														
Benthic Macroinvertebrates														
Birds														
Fish/Wekton														
Mammals														

Second half of page.

EPA > STORET > Biological Results by Project - Microsoft Internet Explorer

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

Activity Intent and Community Sampled

Select one or more Activity Intent

ACTIVITY INTENT

- Select All
- Individual
- Taxon Abundance
- Tissue

If Intent is Taxon Abundance, select one or more Community Sampled

COMMUNITY SAMPLED

- Select All
- Aquatic Vegetation
- Bacteria/Virus
- Benthic Macroinvertebrates
- Birds
- Fish/Nekton
- Mammals

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search

Characteristic Alias Type: STORET DEFAULT

Search ☒ Hide Taxonomic Names

Characteristic Name

Clear Selected Clear All

Continue Clear Form

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_bio_resultcriteria_project

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1502, 1532

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Bio_Result_Criteria_Station

Web Page Name: Biological Results by Station

Date: 8/06/2003

Completed By: Joseph Wilson

Specification Last Modified By: Christine Tsang 8/07/2003; Joseph Wilson 9/03/2003

Processing Overview/Description:

The Biological Results by Station page is the second Biological Result search page of the STORET Central Warehouse and provides four search areas: Organization/Station, Date, Activity Intent and Community Sampled, and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select Stations from multiple Organizations, but is limited to selecting a maximum of 100 Stations per query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Results by Station

Input Parameters:

These parameters are passed from the three Popup windows (DW_Extref_Popup, DW_Station_Popup and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Type. By default this value is 0.	D_EXTREF_LIST
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Extref_Popup	STORET: Select a Station Alias Type	Look Up
DW_Station_Popup	STORET: Station Search Results	Search Stations
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Types. By default this value is 0.	D_EXTREF_LIST
The search string used to find Stations within the Organization. By default this value is 'DUMMY'.	AS_STATION
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
The names of the selected Station(s) string separated by HTML break tags (). By default this value is NULL.	V_STATION_NAMES
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2

Natural Language	Parameter
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4

Natural Language	Parameter
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Intent (Intent Key List).	D_INTENT_LIST
A Pl/Sql table of selected Community Sampled (Community Sampled Key List).	D_COMMUNITY_LIST

Internal Procedure Events:

Onload

- C Populate and format the Organization list box with Organization IDs and Names organized by Organization ID.

- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Populate and format the Activity Intent list box with Activity Intent names.
- Populate and format the Community Sampled list box with Community Sampled names.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Station Section

- 'Look Up' onclick: Display a popup window showing the Station Alias Types that match the Organization selected by the user. If the user has not selected an Organization, display an alert message prompting them to do so. Populate the Station Alias Type display field with the Station Alias the user selects from the pop-up window.
- 'Search Stations' onclick: Display a pop-up window showing the Stations that match the search string, search type, Station Alias Type and Organization entered by the user. If the user has not entered a search string, display an alert message prompting them to do so. Populate the Station listbox with the Stations the user selects from the pop-up window. No more than 100 Stations can be added to the stations selected list.
- 'Clear Selected' onclick: All selected Stations are removed from the stations selected list.
- 'Clear All' onclick: All Stations are removed from the stations selected list.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- 'Search' onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Alias Type entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the characteristics selected list.
- 'Clear Selected' onclick: All selected characteristics are removed from the characteristics selected list.

- 'Clear All' onclick: All characteristics are removed from the characteristics selected list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- If the user has selected an Organization but does not select any Stations, data for the selected Organization is retrieved for the report.
- Stations can not be added to the Selected Stations list more than once.
- If the user selects 'Search by Station Alias Type' but does not change the selected Station Alias Type (i.e., default of 'STANDARD'), then Stations will be searched by ID.
- The user may add no more than 100 Stations to the Selected Stations list. The attempted addition of Stations in excess of this limit is blocked and an alert is displayed.

- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.
- Selected Community Sampled are included in the search only if Intent is 'Select All' or 'Taxon Abundance'.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Station search before entering a search string.
- An alert is displayed if the user attempts to perform a Station search before selecting an Organization.
- An alert is displayed if the user attempts to perform a Station Alias Type lookup before selecting an Organization.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900).

Code Changes:

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


Page Print:

First half of page.

EPA > STORET > Biological Results by Station - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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

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Biological Results by Station

Station

Select an Organization and a Search Type, then enter a Search String and click "Search Stations".

ORG ID	ORGANIZATION NAME
Select an Organization	

Search Type

☒ Search by Station ID
☐ Search by Station Name
☐ Search by Station Alias

Select Station Alias Type **Look Up**

Search String

Search Stations

Org ID	Station ID	Alias Type	Station Alias	Station Name
--------	------------	------------	---------------	--------------

Clear Selected **Clear All**

Done Internet

Second half of page.

EPA > STORET > Biological Results by Station - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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

Date

Specify Activity Start Date range(s)

Date Range 1: JAN 1 1900 To SEP 3 2003

Date Range 2: --- --- --- To --- --- ---

Date Range 3: --- --- --- To --- --- ---

Date Range 4: --- --- --- To --- --- ---

Activity Intent and Community Sampled

Select one or more Activity Intent

ACTIVITY INTENT

Select All
Individual
Taxon Abundance
Tissue

If Intent is Taxon Abundance, select one or more Community Sampled

COMMUNITY SAMPLED

Select All
Aquatic Vegetation
Bacteria/Virus
Benthic Macroinvertebrates
Birds
Fish/Nekton
Mammals

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search

Characteristic Alias Type

STORET DEFAULT

Search

☒ Hide Taxonomic Names

Characteristic Name

Clear Selected Clear All

Continue Clear Form

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_bio_resultcriteria_station

Done Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: Global

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Bottom_of_Page

Web Page Name: EPA standard web template footer

Date: 11/27/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 8/29/2003

Process Overview/Description:

The DW_bottom_of_page procedure is used to create the standard footer used by all pages of the Central Warehouse application. This footer provides a links to several EPA web pages. In addition, this procedure creates the link used to open application help.

Tables:

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

None.

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET Central Warehouse	onLoad
DW_Result_Criteria_Geo	Regular Results by Geographic Location	onLoad
DW_Result_Criteria_Station	Regular Results by Station	onLoad

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Project	Regular Results by Project	onLoad
DW_Result_Count	Result Search Summary	onLoad
DW_Result_Hub_Custom	Download Results	onLoad
DW_Station_Criteria	Station Search Criteria	onLoad
DW_Station_Count	Station Search Summary	onLoad
DW_Station_Hub_Custom	View Station List/Download Report	onLoad
DW_Bio_Result_Criteria_Geo	Biological Results by Geographic Location	onLoad
DW_Bio_Result_Criteria_Station	Biological Results by Station	onLoad
DW_Bio_Result_Criteria_Project	Biological Results by Project	onLoad
DW_Hab_Result_Criteria_Geo	Habitat Results by Geographic Location	onLoad
DW_Hab_Result_Criteria_Station	Habitat Results by Station	onLoad
DW_Hab_Result_Criteria_Project	Habitat Results by Project	onLoad

Input Parameters:

None.

Links To:

URL	Web_Page	Hyperlink Text
http://www.epa.gov/	EPA home page	'EPA Home'
http://www.epa.gov/epafiles/usenotice.htm	EPA privacy and security page	'Privacy and Security Notice'
http://www.epa.gov/storet/contact.html	STORET contact us page	'Contact Us'

Output Parameters:

None.

Internal Procedure Events:

Onload

- Display the date of the release - September 12, 2003.
- Display the URL of the current page.

Form Level

- 'Help' onclick: Call the Javascript function used to display the application's help documentation.

Images:

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:

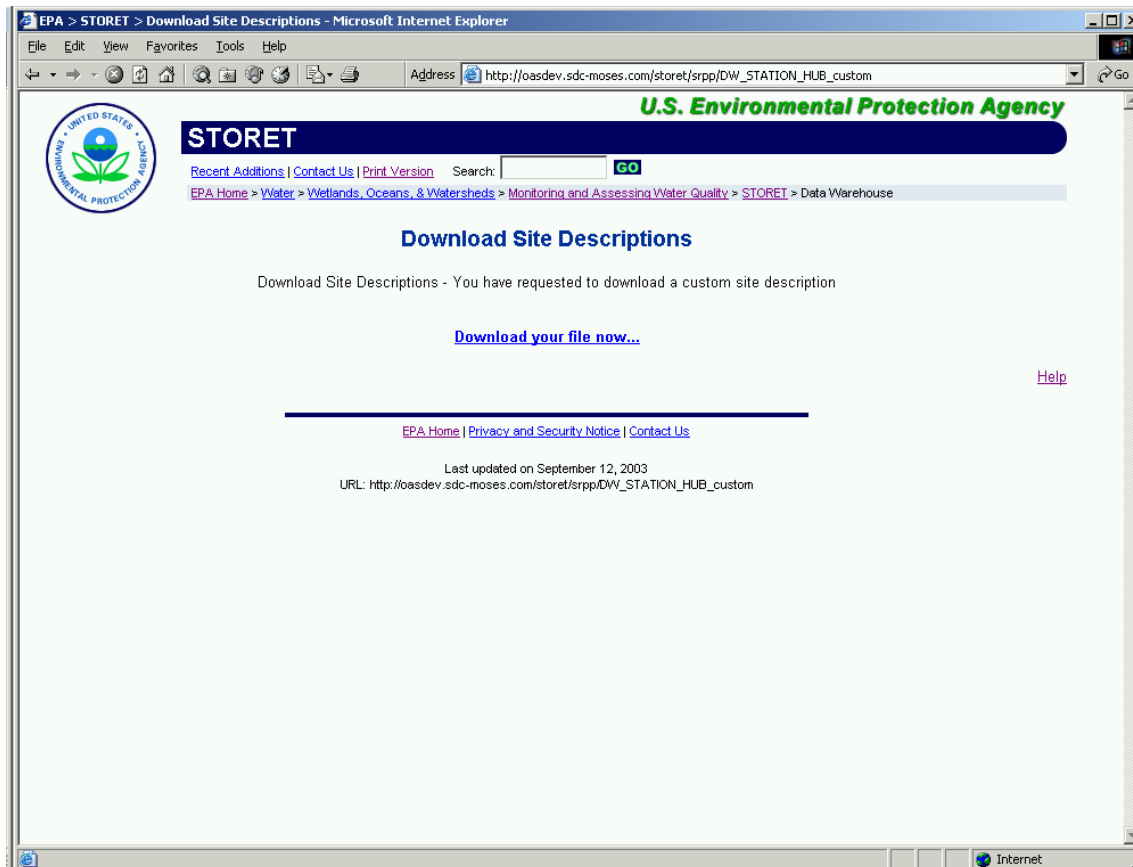
- See specifications for the Web pages that call this procedure.

Code Changes:

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

Page Print:

The DW_bottom_of_page procedure produces the standard footer found at the bottom of the Central Warehouse's web pages.



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1437

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Char_Alias_Popup

Web Page Name: STORET: Characteristic Search Results

Date: 3/2/2003

Completed By: Joseph Wilson

Specification Last Modified By: William Nash 4/14/2003; Joseph Wilson 09/03/2003

Processing Overview/Description:

The Characteristic Search Results pop-up is called by all Result Search Criteria pages and the Station Search Criteria page. It is used to display a list of available Characteristics that conform to the user's search string. The user can search by the standard STORET name (STORET DEFAULT), or by Characteristic Alias such as CAS Number (CAS NUMBER) and STORET Parameter Code (STORET PARM CODE). If the user has chosen to search by Characteristic Alias, the pop-up window will display both the Characteristic Alias name and standard STORET name. 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 calling Result Search Criteria page where the appropriate fields are populated with the standard STORET names and corresponding codes.

Tables:

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

Entity	Attribute	Display
Characteristic (DI_CHARACTERISTIC)	DISPLAY_NAME	Y

Entity	Attribute	Display
	SEARCH_NAME	N
	PK_ISN	N
	TYPE_CODE	N
Characteristic Alias (LU_CHAR_ALIAS)	CHAR_ALIAS	Y
	FK_CHARACTERISTIC	N
	FK_CHAR_ALIAS_TYPE	N

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Geo	Regular Results by Geographic Location	<Select>
DW_Result_Criteria_Station	Regular Results by Station	<Select>
DW_Result_Criteria_Project	Regular Results by Project	<Select>
DW_Bio_Result_Criteria_Geo	Biological Results by Geographic Location	<Select>
DW_Bio_Result_Criteria_Station	Biological Results by Station	<Select>
DW_Bio_Result_Criteria_Project	Biological Results by Project	<Select>
DW_Hab_Result_Criteria_Geo	Habitat Results by Geographic Location	<Select>
DW_Hab_Result_Criteria_Station	Habitat Results by Station	<Select>
DW_Hab_Result_Criteria_Project	Habitat Results by Project	<Select>

Input Parameters:

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

Natural Language	Parameter
The key of the Characteristic Alias Type being used for the search. By default this is set to '0', 'STORET DEFAULT'.	AS_CHAR_ALIAS_TYPE

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Geo	Regular Results by Geographic Location	<Select>
DW_Result_Criteria_Station	Regular Results by Station	<Select>
DW_Result_Criteria_Project	Regular Results by Project	<Select>
DW_Bio_Result_Criteria_Geo	Biological Results by Geographic Location	<Select>
DW_Bio_Result_Criteria_Station	Biological Results by Station	<Select>
DW_Bio_Result_Criteria_Project	Biological Results by Project	<Select>
DW_Hab_Result_Criteria_Geo	Habitat Results by Geographic Location	<Select>
DW_Hab_Result_Criteria_Station	Habitat Results by Station	<Select>
DW_Hab_Result_Criteria_Project	Habitat Results by Project	<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 string separated by a break.	V_CHAR_NAMES

Internal Procedure Events:

Onload

- Populate the select list with the Characteristics that conform to the Characteristic Search Criteria.

Form Level

- ‘Select’ onclick: Populate the Selected Characteristics list on the calling Selection Criteria page with the Characteristic names and hidden Ids that the user selects from this pop-up window. If Characteristics were previously added, insert the new Characteristics at the end of the existing Selected Characteristics list.
- ‘Cancel’ onclick: Close this pop-up window and return focus to the calling Result Selection Criteria page. Do not alter the value of the Selected Characteristics list.

Images:

None.

Business Rules:

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

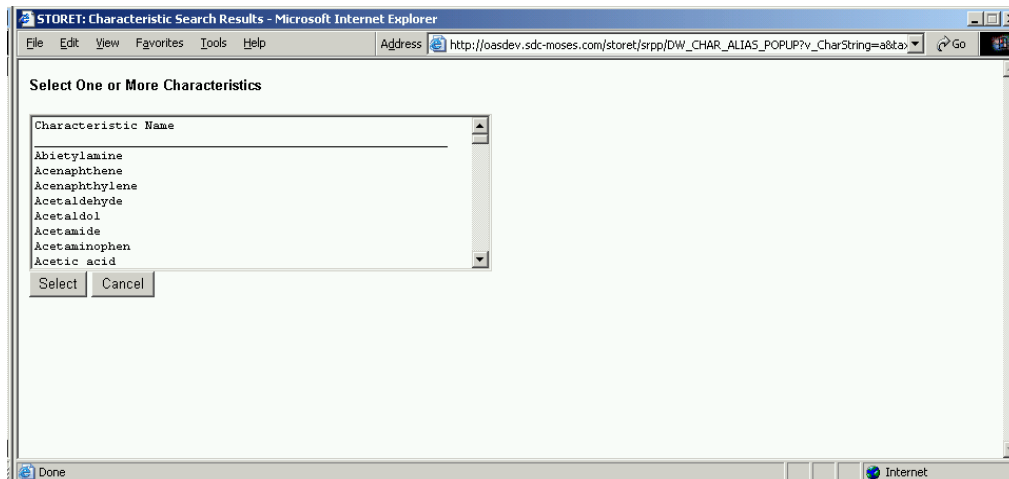
Error Handling:

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

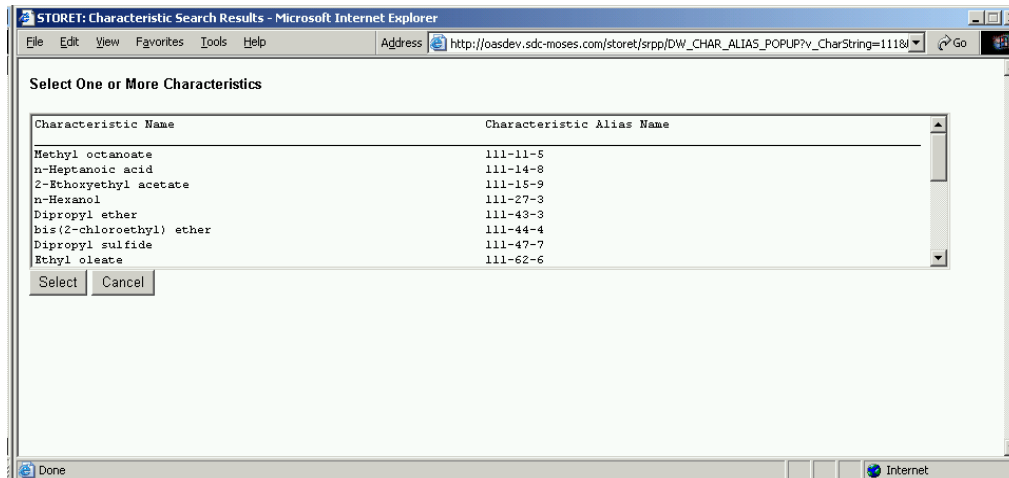
Code Changes:

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

Page Print: STORET DEFAULT



Characteristic Alias (e.g., CAS NUMBER)



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

Specification Last Modified By: Joseph Wilson 08/29/2003

Processing Overview/Description:

The Select Counties page is called by the Station Search Criteria page and the Results by Geographic Location pages 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 calling 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
	PK_ISN	N
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
	COUNTY_CODE	N

Entity	Attribute	Display
	FK_GEO_STATE	N
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Look Up>
DW_Results_Criteria_Geo	Regular Results by Geographic Location	<Look Up>
DW_Bio_Results_Criteria_Geo	Biological Results by Geographic Location	<Look Up>
DW_Hab_Results_Criteria_Geo	Habitat Results by Geographic Location	<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	<Look Up>
DW_Results_Criteria_Geo	Regular Results by Geographic Location	<Look Up>
DW_Bio_Results_Criteria_Geo	Biological Results by Geographic Location	<Look Up>
DW_Hab_Results_Criteria_Geo	Habitat Results by Geographic Location	<Look Up>

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:

- ‘Select’ onclick: Populate the County Name text area on the calling 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.
- ‘Cancel’ onclick: Close this pop-up window and return focus to the calling page. Do not alter the value of the County Name text area.

Images:

None.

Business Rules:

- All Counties for the selected state are displayed.
- Multiple Counties can be selected per search but all selected Counties must belong to the same State.

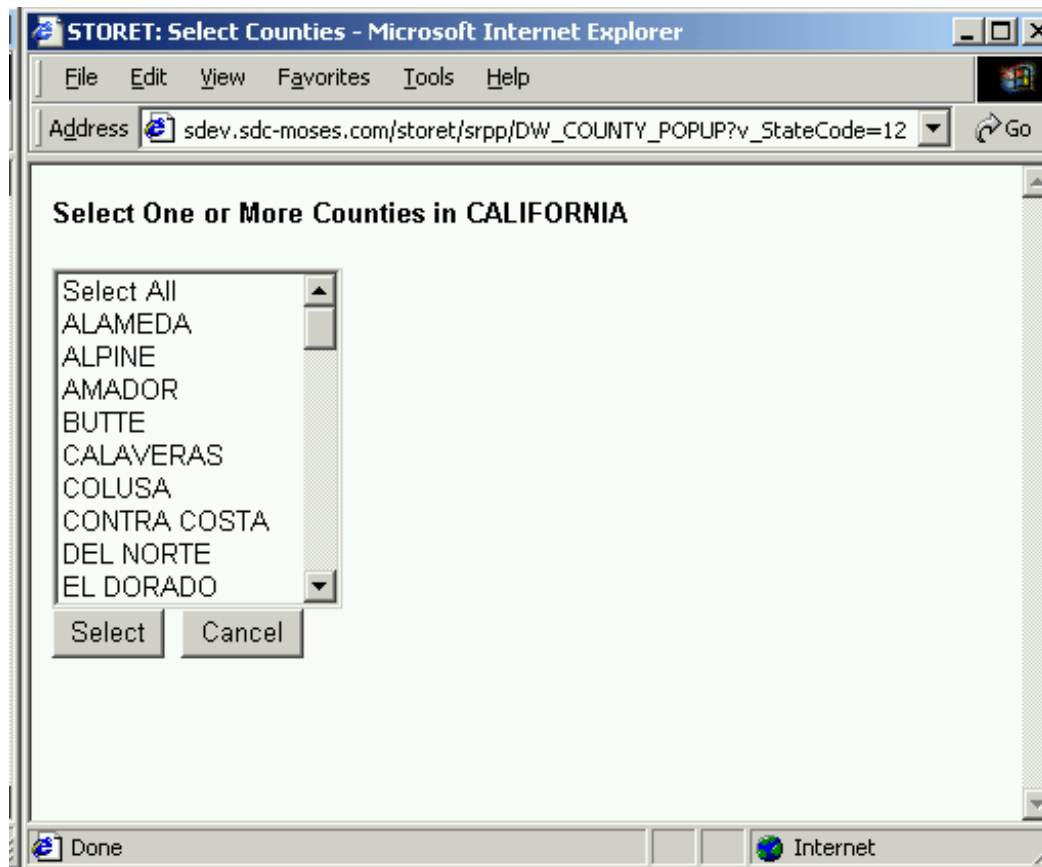
Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.
- Only valid County Names and County Codes are returned to the calling page.

Code Changes:

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

Page Print:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1438

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Extref_Popup

Web Page Name: STORET: Select a Station Alias Type

Date: 4/21/2003

Completed By: Christine Tsang

Specification Last Modified By: Christine Tsang 08/29/2003

Processing Overview/Description:

The Select a Station Alias Type page is called by the Results by Station pages and is used to display a list of all available Station Alias Types for the Organization the user has selected. The user is able to select a single Station Alias Type from this list. The name and code of the selected Station Alias Type are passed to the calling Results by Station page where the appropriate fields are populated with this information.

Tables:

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

Entity	Attribute	Display
External Ref Scheme (LU_EXTERNAL_REF_SCHEME)	REF_SCHEME_ACRONYM	Y
	REF_SCHEME_NAME	Y
	PK_ISN	N
	ORGANIZATION_ID	N

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_ID	N
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Station	Results by Station	<Look Up>

Input Parameters:

Natural Language	Parameter
A Pl/Sql table of selected Organizations (Organization Key List).	V_ORG

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Station	Results by Station	<Select>

Output Parameters:

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Type. By default this value is 0.	D_EXTREF_LIST

Internal Procedure Events:

- 'Select' onclick: Populate the Station Alias Type text area on the calling Results by Station page with the REF_SCHEME_ACRONYM (Station Alias Type) that the user

selects from this pop-up window. Write the corresponding Ref Scheme code in the hidden field D_EXTREF_LIST.

- 'Cancel' onclick: Close this pop-up window and return focus to the calling Results by Station page. Do not alter the value of the Station Alias Type text area.

Images:

None.

Business Rules:

- Only one Station Alias Type may be selected at a time.

Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.
- Only valid Ref Scheme Acronyms and Ref Scheme Codes are returned to the Results by Station page.

Code Changes:

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

Page Print:

STORET: Select a Station Alias type - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://oasdev.sdc-moses.com/storet/srpp/DW_EXTREF_POPUP?v_org=17 Go

Select a Station Alias Type for the Organization: Delaware River Basin Commission

Station Alias Type	Description
STANDARD	
LOWDEL	Lower Delaware Monitoring Program
NAWQA	USGS National Water Quality Assessment - Delaware River

Select Cancel

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1503

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Hab_Result_Criteria_GEO

Web Page Name: Habitat Results by Geographic Location

Date: 8/15/2003

Completed By: Joseph Wilson

Specification Last Modified By: William Nash 9/03/2003; Joseph Wilson 09/03/2003

Processing Overview/Description:

The Habitat Results by Geographic Location page is the first Habitat Result search page of the STORET Central Warehouse and provides three major search areas: Geographic Location, Date, and Characteristic. A user is able to accept default values 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 Result query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Habitat Results by Geographic Location

Input Parameters:

These parameters are passed from the three Popup windows (DW_County_Popup, DW_HUC_Popup, and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

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_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search. By default this value is 'StateCounty'.	GEOGRAPHIC
The name of the selected State. By default this value is 'ALL'.	AS_STATE
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 90.	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees. By default this value is 180.	MIN_LONG_DD
The Eastern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MIN_LAT_DD
The direction of the Northern Limit. By default this value is N.	DIR_MAXLAT
The direction of the Southern Limit. By default this value is N.	DIR_MINLAT
The direction of the Eastern Limit. By default this value is W.	DIR_MAXLONG
The direction of the Western Limit. By default this value is W.	DIR_MINLONG
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1

Natural Language	Parameter
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3

Natural Language	Parameter
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags(). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A PI/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER

Natural Language	Parameter
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE

Internal Procedure Events:

Onload

- Populate the State Name list box with State Names organized alphabetically by country (with the U. S. first followed by Mexico and Canada).
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Geographic Location Section

- 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.
- 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.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- 'Search' onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.

- 'Clear Selected' onclick: All selected characteristics are removed from the characteristic select list.
- 'Clear All' onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- If the user selects 'All' State/Counties, all result records are included in the search.
- If the user selects 'All' HUCs, all result records are included in the search.
- If the user selects defaults latitude/longitude values (i.e., N=90, S=0, E=0, W=180), all result records are included in the search.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To Date = current date), all result records are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- The user will not be allowed to proceed to the next page if a non-numeric character is entered in the latitude/longitude fields or if the entry is outside the Latitude/Longitude permitted value range.
- 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.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g. Jan 1, 2003 - Jan 1, 1900).


Code Changes:

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

Page Print:

EPA > STORET > Habitat Results by Geographic Location - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Habitat Results by Geographic Location

Geographic Location

Select a single type of location search that you wish to perform (state/county, latitude/longitude, or HUC). Then enter the corresponding search criteria.

<input checked="" type="radio"/> State/County	State Name <input type="text" value="ALL"/>	County Name <input type="text" value="ALL"/>	<input type="button" value="Look Up"/>												
<input type="radio"/> Latitude/Longitude (in decimal degrees)	<table><tr><td>West Limit</td><td>North Limit</td><td>East Limit</td></tr><tr><td><input type="text" value="180"/> <input type="text" value="W"/></td><td><input type="text" value="90"/> <input type="text" value="N"/></td><td><input type="text" value="0"/> <input type="text" value="W"/></td></tr><tr><td colspan="3">South Limit</td></tr><tr><td colspan="3"><input type="text" value="0"/> <input type="text" value="N"/></td></tr></table>			West Limit	North Limit	East Limit	<input type="text" value="180"/> <input type="text" value="W"/>	<input type="text" value="90"/> <input type="text" value="N"/>	<input type="text" value="0"/> <input type="text" value="W"/>	South Limit			<input type="text" value="0"/> <input type="text" value="N"/>		
West Limit	North Limit	East Limit													
<input type="text" value="180"/> <input type="text" value="W"/>	<input type="text" value="90"/> <input type="text" value="N"/>	<input type="text" value="0"/> <input type="text" value="W"/>													
South Limit															
<input type="text" value="0"/> <input type="text" value="N"/>															
<input type="radio"/> Drainage Basin/HUC	Cataloging Unit <input type="text" value="ALL"/> <input type="button" value="Look Up"/>														

Date

Specify Activity Start Date range(s)

Date Range 1:	<input type="text" value="JAN"/> <input type="text" value="1"/> <input type="text" value="1900"/>	To	<input type="text" value="SEP"/> <input type="text" value="3"/> <input type="text" value="2003"/>
Date Range 2:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>
Date Range 3:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>
Date Range 4:	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>	To	<input type="text" value="---"/> <input type="text" value="---"/> <input type="text" value="---"/>

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search	Characteristic Alias Type
<input type="text"/>	<input type="text" value="STORET DEFAULT"/>
<input type="button" value="Search"/>	<input checked="" type="checkbox"/> Hide Taxonomic Names

Characteristic Name

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STORET

Data Warehouse Web Page Development Specification Package

SIR: 1503

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Hab_Result_Criteria_Project

Web Page Name: Habitat Results by Project

Date: 8/15/2003

Completed By: Joseph Wilson

Specification Last Modified By: William Nash 09/03/2003; Joseph Wilson 09/03/2003

Processing Overview/Description:

The Habitat Results by Project page is the third Habitat Result search page of the STORET Central Warehouse and provides three major search areas: Organization/Project, Date, and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select a single Project from a single Organization. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Habitat Results by Project

Input Parameters:

These parameters are passed from the two Popup windows (DW_Project_Popup and DW_Char_Alias_Popup) windows back to this procedure.

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Project_Popup	STORET: Select Project	Look Up
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST

Natural Language	Parameter
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3

Natural Language	Parameter
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE

Natural Language	Parameter
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is 'ON'.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE

Internal Procedure Events:

Onload

- Populate the Organization list box with Organization IDs and Names organized by Organization ID.
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Organization/Project Section

- Project 'Lookup' onclick: Display a pop-up window showing the available Projects for the Organization currently selected from the drop-down list. Populate the Project Name textbox with the Project that the user selects from the pop-up window and populate the hidden variable D_PROJ_LIST with the corresponding key.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.

- If the user has selected an Organization but does not select a Project, data for the selected Organization is retrieved for the report.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Project look-up before selecting an Organization.
- The Project field is reset to 'Select a Project' if the selected Organization is changed.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900).


Code Changes:

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

Page Print:

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Habitat Results by Project

Project

Step 1: Select a Single Organization from the List

ORG ID	ORGANIZATION NAME
Select an Organization	

Step 2: Select a Single Project by Clicking "Look Up"

Date

Specify Activity Start Date range(s)

Date Range 1:	JAN	1	1900	To	SEP	3	2003
Date Range 2:	---	--	----	To	---	--	----
Date Range 3:	---	--	----	To	---	--	----
Date Range 4:	---	--	----	To	---	--	----

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search	Characteristic Alias Type
<input type="text"/>	STORET DEFAULT
<input type="button" value="Search"/>	<input checked="" type="checkbox"/> Hide Taxonomic Names

Characteristic Name

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_hab_resultcriteria_project

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Data Warehouse Web Page Development Specification Package

SIR: 1503

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Hab_Result_Criteria_Station

Web Page Name: Habitat Results by Station

Date: 4/02/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 9/03/2003; William Nash 9/3/2003

Processing Overview/Description:

The Habitat Results by Station page is the second Habitat Result search page of the STORET Central Warehouse and provides three major search areas: Organization/Station, Date, and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select Stations from multiple Organizations, but is limited to selecting a maximum of 100 Stations per query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Habitat Results by Station

Input Parameters:

These parameters are passed from the three Popup windows (DW_Extref_Popup, DW_Station_Popup and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Type. By default this value is 0.	D_EXTREF_LIST
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Extref_Popup	STORET: Select a Station Alias Type	Look Up
DW_Station_Popup	STORET: Station Search Results	Search Stations
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Types. By default this value is 0.	D_EXTREF_LIST
The search string used to find Stations within the Organization. By default this value is 'DUMMY'.	AS_STATION
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
The names of the selected Station(s) string separated by HTML break tags (). By default this value is NULL.	V_STATION_NAMES
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_YYYY2

Natural Language	Parameter
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4

Natural Language	Parameter
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE

Internal Procedure Events:

Onload

- C Populate the Organization list box with Organization IDs and Names organized by Organization ID.
- C For Date Range 1, select default values of FROM = ‘Jan-1-1900’ and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., ‘—’) to denote this.
- C Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Station Section

- C 'Look Up' onclick: Display a popup window showing the Station Alias Types that match the Organization selected by the user. If the user has not selected an Organization, display an alert message prompting them to do so. Populate the Station Alias Type display field with the Station Alias Type the user selects from the pop-up window.
- C 'Search Stations' onclick: Display a pop-up window showing the Stations that match the search string, search type, Station Alias Type, and Organization entered by the user. If the user has not entered a search string, display an alert message prompting them to do so. Populate the Station listbox with the Stations the user selects from the pop-up window. No more than 100 Stations can be added to the Selected Stations list.
- C 'Clear Selected' onclick: All selected Stations are removed from the characteristic select list.
- C 'Clear All' onclick: All Stations are removed from the characteristic select list.

Date Section

- C Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- C 'Search' onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- 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

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- If the user has selected an Organization but does not select any Stations, data for the selected Organization is retrieved for the report.
- Stations can not be added to the Selected Stations list more than once.
- If the user selects 'Search by Station Alias Type' but does not change the selected Station Alias Type (i.e., default of 'STANDARD'), then Stations will be searched by ID.
- The user may add no more than 100 Stations to the Selected Stations list. The attempted addition of Stations in excess of this limit is blocked and an alert is displayed.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Station search before entering a search string.
- An alert is displayed if the user attempts to perform a Station search before selecting an Organization.
- An alert is displayed if the user attempts to perform a Station Alias Type lookup before selecting an Organization.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900)

Code Changes:

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

Page Print:

First half of page.

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Habitat Results by Station

Station

Select an Organization and a Search Type, then enter a Search String and click "Search Stations".

ORG ID	ORGANIZATION NAME
Select an Organization	

Search Type

☒ Search by Station ID
☐ Search by Station Name
☐ Search by Station Alias

Select Station Alias Type **Look Up**

Search String

Search Stations

Org ID	Station ID	Alias Type	Station Alias	Station Name
--------	------------	------------	---------------	--------------

Clear Selected **Clear All**

Date

Specify Activity Start Date range(s)

Date Range 1: **To**

Date Range 2: **To**

Date Range 3: **To**

Date Range 4: **To**

Done Internet

Second half of page.

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Clear Selected Clear All

Date

Specify Activity Start Date range(s)

Date Range 1: JAN 1 1900 To SEP 3 2003

Date Range 2: --- -- --- To --- -- ---

Date Range 3: --- -- --- To --- -- ---

Date Range 4: --- -- --- To --- -- ---

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search Characteristic Alias Type

Search ☒ Hide Taxonomic Names

Characteristic Name

Clear Selected Clear All

Continue Clear Form

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_hab_resultcriteria_station

Done Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1530

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Home

Web Page Name: STORET Central Warehouse

Date: 4/28/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 9/03/2003

Processing Overview/Description:

This serves as the cover page to the STORET Central Warehouse Web Application. It provides links to the nine Result Search Criteria pages and the Station Search Criteria page. It also provides users with the STORET User Assistance 800 number and email address. The STORET 'rain-drop' logo is also displayed on this page.

Tables Used:

None.

Links From:

None.

Input Parameters:

None.

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	Stations by Geographic Location
DW_Result_Criteria_Geo	Results by Geographic Location	Regular Results by Geographic Location
DW_Result_Criteria_Station	Results by Station	Regular Results by Station
DW_Result_Criteria_Project	Results by Project	Regular Results by Project
DW_Bio_Result_Criteria_Geo	Results by Geographic Location	Regular Results by Geographic Location
DW_Bio_Result_Criteria_Station	Results by Station	Biological Results by Station
DW_Bio_Result_Criteria_Project	Results by Project	Biological Results by Project
DW_Hab_Result_Criteria_Geo	Results by Geographic Location	Habitat Results by Geographic Location
DW_Hab_Result_Criteria_Station	Results by Station	Habitat Results by Station
DW_Hab_Result_Criteria_Project	Results by Project	Habitat Results by Project

Output Parameters:

None.

Internal Procedure Events:

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

This page contains the images included in the EPA Standard Web Template. This page also references the STORET 'rain-drop' logo stored at the location:
'<http://www.epa.gov/storet/images/logo.gif>'.

Business Rules:

None.

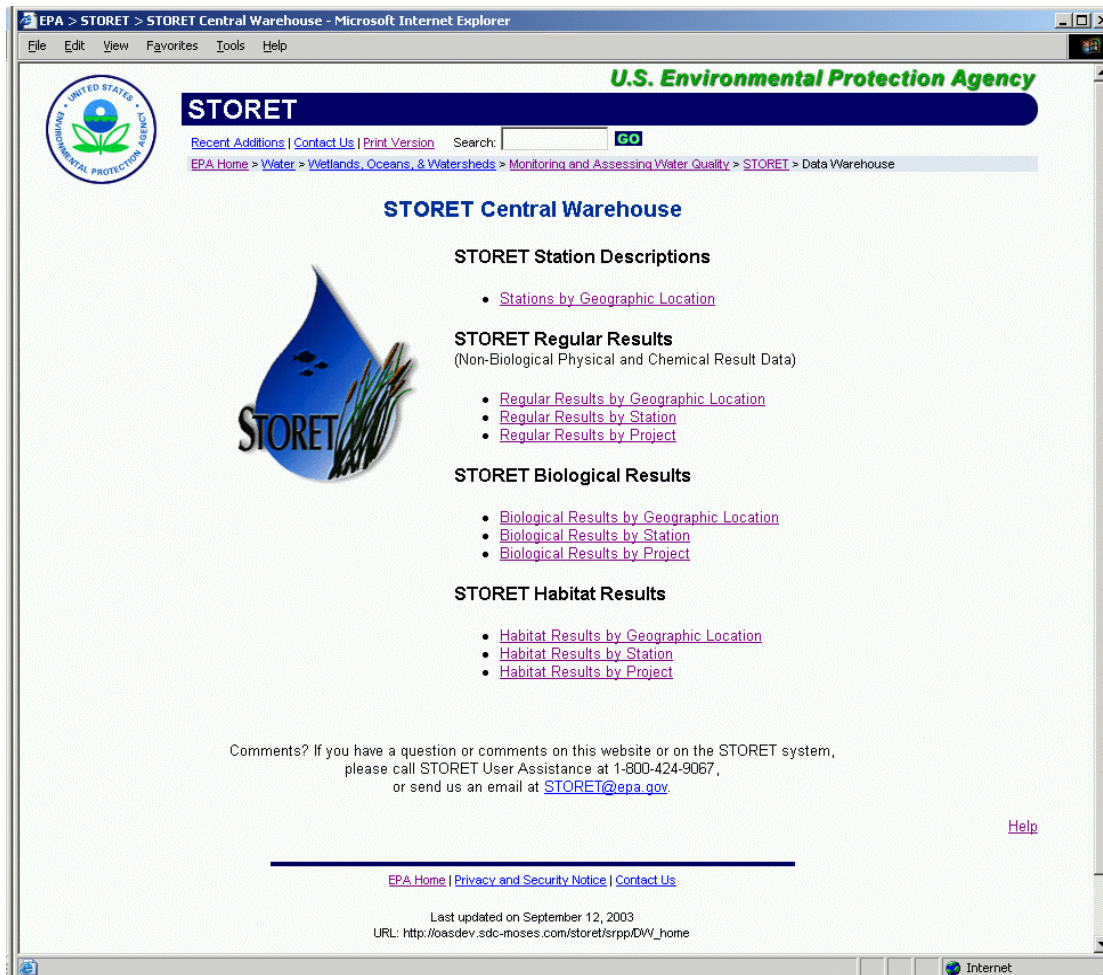
Error Handling:

- 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:



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 a Hydrologic Unit Code (HUC)

Date: 10/30/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 08/29/2003

Processing Overview/Description:

The Select a Hydrologic Unit Code (HUC) page is called by the Station Search Criteria page and the Results By Geographic Location pages, 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 calling 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>
DW_Results_Criteria_Geo	Regular Results by Geographic Location	<Look Up>
DW_Bio_Results_Criteria_Geo	Biological Results by Geographic Location	<Look Up>
DW_Hab_Results_Criteria_Geo	Habitat Results by Geographic Location	<Look Up>

Input Parameters:

None.

Links To:

Procedure	Web_Page	Button/Text
DW_Station_Criteria	Station Search Criteria	<Look Up>
DW_Results_Criteria_Geo	Regular Results by Geographic Location	<Look Up>
DW_Bio_Results_Criteria_Geo	Biological Results by Geographic Location	<Look Up>
DW_Hab_Results_Criteria_Geo	Habitat Results by Geographic Location	<Look Up>

Output Parameters:

Natural Language	Parameter
The Hydrologic Unit Code value.	AS_HUC

Internal Procedure Events:

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

Images:

None.

Business Rules:

- All Hydrologic Units are displayed.
- Only one Hydrologic Unit can be selected per search.

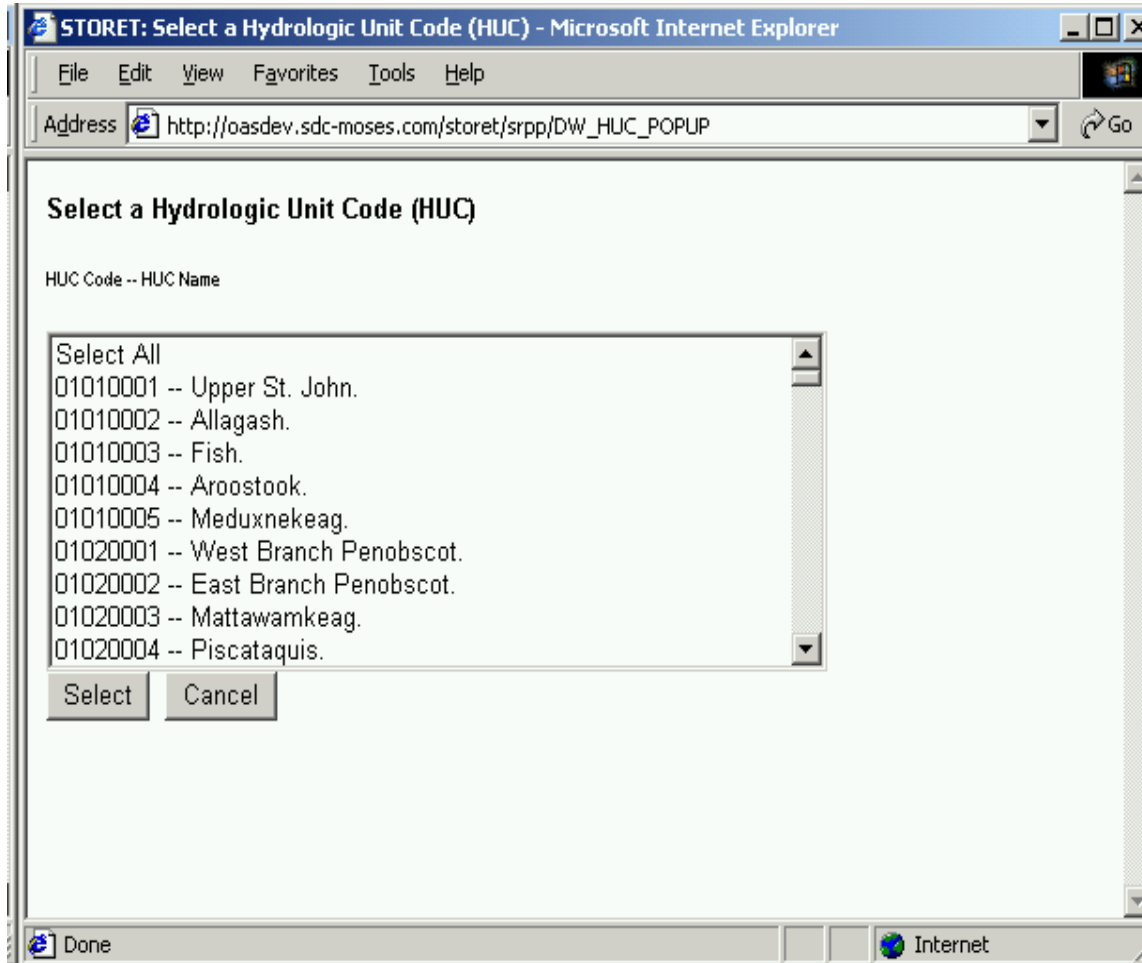
Error Handling:

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



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1442

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Proj_Popup

Web Page Name: STORET: Select a Project

Date: 3/02/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 08/29/2003

Processing Overview/Description:

The Select a Project page is called by the Results by Project pages and is used to display a list of all available Projects for the Organization the user has selected. The user is able to select a single Project from this list. The name and code of the selected Project are passed to the calling Results by Project page where the appropriate fields are populated with this information.

Tables:

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

Entity	Attribute	Display
Project (DI_PROJECT)	PROJECT_CD	Y
	PROJECT_NAME	Y
	PK_ISN	N
	FK_ORG	N

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Project	Regular Results by Project	<Look Up>
DW_Bio_Result_Criteria_Project	Biological Results by Project	<Look Up>
DW_Hab_Result_Criteria_Project	Habitat Results by Project	<Look Up>

Input Parameters:

Natural Language	Parameter
The key of the selected Organizations.	V_ORG

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Project	Regular Results by Project	<Look Up>
DW_Bio_Result_Criteria_Project	Biological Results by Project	<Look Up>
DW_Hab_Result_Criteria_Project	Habitat Results by Project	<Look Up>

Output Parameters:

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST

Internal Procedure Events:

- ‘Select’ onclick: Populate the Project Name text area on the calling Results by Project page with the Project name that the user selects from this pop-up window. Write the corresponding Project codes in the hidden field V_PROJ_LIST.
- ‘Cancel’ onclick: Close this pop-up window and return focus to the calling Results by Project page. Do not alter the value of the Project Name text area.

Images:

None.

Business Rules:

- Only one Project may be selected at a time.

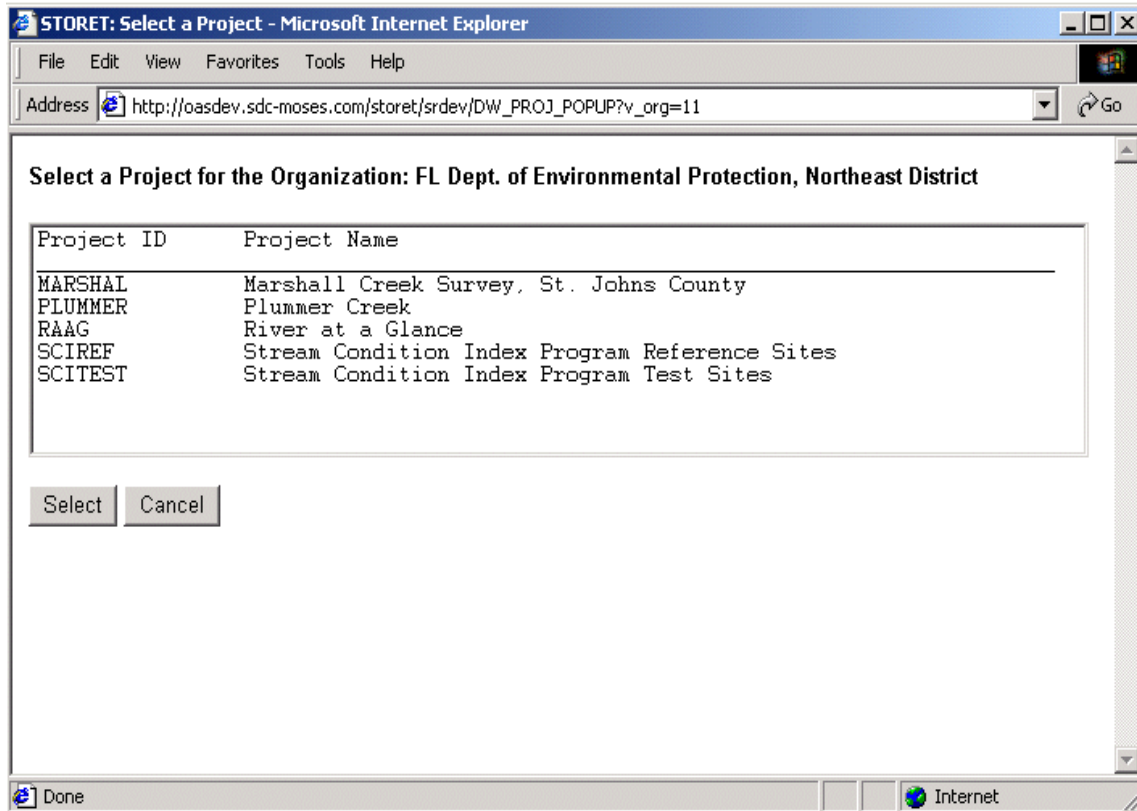
Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.
- Only valid Project Names and Project Codes are returned to the Results by Project page.

Code Changes:

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

Page Print:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1445, 1500, 1502, 1503

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Count

Web Page Name: Result Search Summary

Date: 03/12/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson/Christine Tsang 08/29/2003

Processing Overview/Description:

The Result Search Summary page receives and processes a user's search parameters from the nine Result Search Criteria pages, displays a summary of this information, and provides a count of the number of Results that satisfy the search criteria. Based on this count, a user is able to decide whether they wish to create a report or return to the Result 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. If a report exceeds the permitted number of Results (currently set at 30,000), the user is told that they must refine their query and is unable to generate a report. If there are no Results for a report, the user is told that they must refine their query and is unable to generate a report.

Tables:

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

Entity	Attribute	Display
Date (DI_DATE)	FULL_DATE	Y
	PK_ISN	N
State (DI_GEO_STATE)	STATE_NAME	Y

Entity	Attribute	Display
	PK_ISN	N
Organization (DI_ORG)	ORGANIZATION_ID	Y
	PK_ISN	N
Project (DI_PROJECT)	PROJECT_CD	Y
	PK_ISN	N
Activity Medium (DI_ACTIVITY_MEDIUM)	PK_ISN	N
	ACTIVITY_MEDIUM	Y
Activity Intent (DI_ACTIVITY_INTENT)	PK_ISN	N
	ACTIVITY_INTENT	Y
Community Sampled (DI_COMMUNITY_SAMPLED)	PK_ISN	N
	ACTIVITY_COMMUNITY	Y
Non-Biological Result (FA_REGULAR_RESULT)	STN_LATITUDE	N
	STN_LONGITUDE	N
	PK_ISN	N
	FK_GEO_COUNTY	N
	FK_GEO_STATE	N
	HYDROLOGIC_UNIT_CODE	N
	FK_DATE_ACT_START	N
	FK_CHAR	N
	FK_ORG	N
	FK_STATION	N
	FK_ACT_MEDIUM	N
REGULAR_RESULT_PROJECT	FK_PROJECT	N
	FK_RESULT	N
Biological Result (FA_BIOLOGICAL_RESULT)	STN_LATITUDE	N

Entity	Attribute	Display
	STN_LONGITUDE	N
	PK_ISN	N
	FK_GEO_COUNTY	N
	FK_GEO_STATE	N
	HYDROLOGIC_UNIT_CODE	N
	FK_DATE_ACT_START	N
	FK_CHAR	N
	FK_ORG	N
	FK_STATION	N
BIOLOGICAL_RESULT_PROJECT	FK_PROJECT	N
	FK_ACT_INTENT	N
	FK_COMMUNITY_SAMPLED	N
	FK_RESULT	N
Habitat Assessment (FA_HABITAT_RESULT)	STN_LATITUDE	N
	STN_LONGITUDE	N
	PK_ISN	N
	FK_GEO_COUNTY	N
	FK_GEO_STATE	N
	HYDROLOGIC_UNIT_CODE	N
	FK_DATE_ACT_START	N
	FK_CHAR	N
	FK_ORG	N
	FK_STATION	N
HABITAT_RESULT_PROJECT	FK_PROJECT	N
	FK_RESULT	N
APP_COLUMN_NAME	ELEMENT_NAME	Y
	REG_REPORT_NUMBER	N

Entity	Attribute	Display
	REG_ELEMENT_DEFAULT	N
	BIO_REPORT_NUMBER	N
	BIO_REPORT_DEFAULT	N
	HAB_REPORT_NUMBER	N
	HAB_REPORT_DEFAULT	N

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Geo	Regular Result by Geographic Location	<Continue>
DW_Result_Criteria_Station	Regular Result by Station	<Continue>
DW_Result_Criteria_Project	Regular Result by Project	<Continue>
DW_Bio_Result_Criteria_Geo	Biological Result by Geographic Location	<Continue>
DW_Bio_Result_Criteria_Station	Biological Result by Station	<Continue>
DW_Bio_Result_Criteria_Project	Biological Result by Project	<Continue>
DW_Hab_Result_Criteria_Geo	Habitat Result by Geographic Location	<Continue>
DW_Hab_Result_Criteria_Station	Habitat Result by Station	<Continue>
DW_Hab_Result_Criteria_Project	Habitat Result by Project	<Continue>

Input Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search. By default this value is 'StateCounty'.	GEOGRAPHIC
The code of the selected State. By default this value is 0.	AS_STATE

Natural Language	Parameter
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 90.	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees. By default this value is 180.	MIN_LONG_DD
The Eastern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MIN_LAT_DD
The direction of the Northern Limit. By default this value is NULL.	DIR_MAXLAT
The direction of the Southern Limit. By default this value is NULL.	DIR_MINLAT
The direction of the Eastern Limit. By default this value is NULL.	DIR_MAXLONG
The direction of the Western Limit. By default this value is NULL.	DIR_MINLONG
The Hydrologic Unit Code value. By default this value is 'ALL'	AS_HUC
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1

Natural Language	Parameter
The month of the beginning date of the second query date range. By default this value is NULL or dummy (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL or 0 (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL or 0 (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL or dummy (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL or 0 (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL or 0 (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL or dummy (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL or 0 (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL or 0 (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL or dummy (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL or 0 (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL or 0 (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL or dummy (displayed as “—”).	FROM_MON4

Natural Language	Parameter
The day of the month of the beginning date of the fourth query date range. By default this value is NULL or 0 (displayed as “—“).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL or 0 (displayed as “—“).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL or dummy (displayed as “—“).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL or 0 (displayed as “—“).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL or 0 (displayed as “—“).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A Pl/Sql table of selected Characteristics (Characteristic Key List).	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
The number (PK_ISN) that identifies the project the user selected. Default is 0.	D_PROJ_LIST
The user selected project name. Default is NULL.	AS_PROJ
The names of the selected Station(s) in a string separated by HTML break tags (). By default this value is NULL.	V_STATION_NAMES

Natural Language	Parameter
The Station Ids s of the selected Station(s) in a string separated by a break. By default this value is DUMMY.	AS_STATION
A Pl/Sql table of selected Stations.	STATION_LIST
The search string used to identify available Station Alias Type.	AS_EXTREF
The user selected Station Alias Type.	D_EXTREF_LIST
A Pl/Sql table of selected Activity Mediums (Medium Key List).	D_MEDIUM_LIST
A Pl/Sql table of selected Activity Intents (Intent Key List).	D_INTENT_LIST
A Pl/Sql table of selected Sample Communities (Community Key List).	D_COMMUNITY_LIST
The type of Result being searched (Regular, Biological, or Habitat).	RESULT_TYPE

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Hub_Custom	Download Result Report	<Continue>

Output Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting results.	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting results.	V_WHERESTMT
A Pl/Sql table of selected Columns for the report (Column Name List).	V_COLUMNS
The number of results matching the search criteria (this is the same number that is displayed on the DW_Result_Count page).	V_RESULTCOUNT

Natural Language	Parameter
Indicates whether RULE BASED query optimization should be employed (this is for performance tuning).	V_RULE_OPTIMIZATION
The type of Result Report being generated (Regular, Biological, or Habitat).	V_REPORT_TYPE

Internal Procedure Events:

Onload

- Display titles and values for the search criteria that the user selected on the previous page.
- Display the number of Results that match the search criteria that the user selected on the previous page.
- Display the report elements that comprise the selected Result Report type (defined in the APP_COLUMN_NAMES table).
- Check the default report element check boxes based on the type of Result Report being generated.
 - For Regular Result Reports: Org Name, Station ID, Station Location Info, Visit Num, Activity Id, Activity Start [date], Activity Medium, Activity Type, Activity Depth, Activity Depth Unit, Characteristic Name, Sample Fraction, Value Type, Statistic Type, Result Value as Text, Units, Analytical Proc ID.
 - For Biological Result Reports: Org Name, Station ID, Station Location Info, Visit Num, Activity Id, Activity Start [date], Activity Medium, Activity Type, Subject Taxon, Biopart, Activity Depth, Activity Depth Unit, Characteristic Name, Sample Fraction, Value Type, Statistic Type, Result Value as Text, Units, Analytical Proc ID.
 - For Habitat Result Reports: Org Name, Station ID, Station Location Info, Visit Num, Activity Id, Activity Start [date], Activity Type, Characteristic Name, Sample Fraction, Value Type, Statistic Type, Result Value as Text, Units, Analytical Proc ID.

Custom Report Section

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

Form Level

- ‘Continue>>>’ onclick: Call the procedure DW_Result_Hub_Custom and pass it the processed Result search criteria (in the form of a SQL From clause and Where clause), the number of results that match the selection criteria, the list of columns that the user has selected for their report, the type of Result Report being requested, and whether RULE BASED query optimization should be used (this is currently only used for reports that include PROJECT search criteria).
- ‘<<Back’ onclick: Closes the page and returns to the selected Result Criteria page.

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only display location information for the geographic search option that has been selected (State/County (which is the default), Latitude/Longitude, or HUC). Do not display for Station or Project searches.
- Display Organization for Project and Organization searches (these occur on the Project and Station search pages when the user selects an Organization but does not select either a specific Project or specific Stations).
- Always display the Station(s) that have been selected. Display ‘All’ if the user has not chosen specific Stations to base search on.
- Always display the Date range(s) that have been selected. Display ‘All’ if the user has selected the default Date values (From = Jan 1, 1900, To =Current date).
- Always display the Characteristics that have been selected. Display ‘All’ if the user has not chosen specific Characteristics to base search on.
- For Regular Result Searches, always display the Medium that have been selected. Display ‘All’ if the user has not chosen specific Activity Medium so search based upon.
- For Biological Result Searches, always display the Intents that have been selected. Display ‘All’ if the user has not chosen specific Activity Intents to search based upon.

- For Biological Result Searches, display the Communities that have been selected if the Activity Intent is 'Taxon Abundance' or 'All'. Display 'All' if the user has not chosen specific Communities to base search on.

Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.
- An alert is displayed if the user attempts to generate a report without having at least one report element selected.
- Enforces report size restrictions as directed by the TOPO, which is currently 30,000 records.

Code Changes:

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

Page Print:

First half of Page:

EPA > STORET > Result Search Summary - Microsoft Internet Explorer

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

U.S. Environmental Protection Agency

STORET

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Result Search Summary

Number of Results Returned: 3,049

Search Criteria

State: CALIFORNIA

County: ALL

Activity Start Dates: 01-JAN-1990 to 29-AUG-2003

Medium: Water

Characteristic(s): Abietylamine
Acenaphthene
Acenaphthylene
Acetaldehyde
Acetaldol
Acetamide
pH
Phenacetin

Select 'Back' to modify search criteria 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 Data Elements below.

[<<Back](#) [Continue>>](#)

Done Internet

Second half of page:

EPA > STORET > Result Search Summary - Microsoft Internet Explorer

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

Select Data Elements for Report

<input type="checkbox"/> Org ID	<input type="checkbox"/> Actual Activity Latitude	<input checked="" type="checkbox"/> Result Value as Text
<input checked="" type="checkbox"/> Org Name	<input type="checkbox"/> Actual Activity Longitude	<input type="checkbox"/> Result Value as Number
<input checked="" type="checkbox"/> Station ID	<input type="checkbox"/> Well Number	<input checked="" type="checkbox"/> Units
<input type="checkbox"/> Station Name	<input type="checkbox"/> Pipe Number	<input type="checkbox"/> Result Comment
<input checked="" type="checkbox"/> Station Location Info	<input type="checkbox"/> Additional Act Location Info	<input type="checkbox"/> Result Free Text
<input type="checkbox"/> S/G/O Indicator	<input checked="" type="checkbox"/> Activity Depth	<input type="checkbox"/> Weight Basis
<input checked="" type="checkbox"/> Visit Num	<input checked="" type="checkbox"/> Activity Depth Unit	<input type="checkbox"/> Temperature Basis
<input type="checkbox"/> Visit Start	<input type="checkbox"/> Activity Upper Depth	<input type="checkbox"/> Duration Basis
<input type="checkbox"/> Visit Stop	<input type="checkbox"/> Activity Rel Depth	<input type="checkbox"/> Particle Size Basis
<input type="checkbox"/> Trip ID	<input type="checkbox"/> Activity Lower Depth	<input type="checkbox"/> Distance Measured From
<input type="checkbox"/> Trip Name	<input type="checkbox"/> Upr Lwr Depth Unit	<input type="checkbox"/> Distance Measured To
<input checked="" type="checkbox"/> Activity ID	<input type="checkbox"/> Sample Collection ID	<input checked="" type="checkbox"/> Analytical Proc ID
<input checked="" type="checkbox"/> Activity Start	<input type="checkbox"/> Field Gear ID	<input type="checkbox"/> Additional Anal Proc Info
<input type="checkbox"/> Activity Stop	<input type="checkbox"/> Field Gear Config ID	<input type="checkbox"/> Lab Remark
<input checked="" type="checkbox"/> Activity Medium	<input type="checkbox"/> Sample Preservation	<input type="checkbox"/> Dilution Ind
<input type="checkbox"/> Activity Matrix	<input type="checkbox"/> Portable Data Logger	<input type="checkbox"/> Recovery Ind
<input checked="" type="checkbox"/> Activity Type	<input checked="" type="checkbox"/> Characteristic Name	<input type="checkbox"/> Correction Ind
<input type="checkbox"/> Activity Category-Rep Num	<input type="checkbox"/> CAS Num	<input type="checkbox"/> Other Lab Info
<input type="checkbox"/> Activity Intent	<input type="checkbox"/> EPA Registry Num	<input type="checkbox"/> Num of Reps
<input type="checkbox"/> Field Set	<input type="checkbox"/> ITIS Num	<input type="checkbox"/> Precision
<input type="checkbox"/> Actual Point Type	<input checked="" type="checkbox"/> Sample Fraction	<input type="checkbox"/> Bias
<input type="checkbox"/> Actual Point Sequence	<input checked="" type="checkbox"/> Value Type	<input type="checkbox"/> Conf Level
<input type="checkbox"/> Actual Point Name	<input checked="" type="checkbox"/> Statistic Type	<input type="checkbox"/> Correction for Bias Ind

Select All Clear All Restore Defaults

<<Back Continue>>

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_RESULT_COUNT

Done Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1441, 1440, 1439, 1437, 1435, 1443, 1500

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Criteria_GEO

Web Page Name: Regular Results by Geographic Location

Date: 3/12/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 9/03/2003; William Nash 9/4/2003

Processing Overview/Description:

The Regular Results by Geographic Location page is the first Regular Result search page of the STORET Central Warehouse and provides four major search areas: Geographic Location, Date, Activity Medium, and Characteristic. A user is able to accept default values 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 Result query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Regular Results by Geographic Location

Input Parameters:

These parameters are passed from the three Popup windows (DW_County_Popup, DW_HUC_Popup, and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
A PI/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

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_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
Identifies the geographic location parameter being used for the search. By default this value is 'StateCounty'.	GEOGRAPHIC
The name of the selected State. By default this value is 'ALL'.	AS_STATE
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Northern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 90.	MAX_LAT_DD
The Western Limit of a Latitude/Longitude query in decimal degrees. By default this value is 180.	MIN_LONG_DD
The Eastern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MAX_LONG_DD
The Southern Limit of a Latitude/Longitude query in decimal degrees. By default this value is 0.	MIN_LAT_DD
The direction of the Northern Limit. By default this value is N.	DIR_MAXLAT
The direction of the Southern Limit. By default this value is N.	DIR_MINLAT
The direction of the Eastern Limit. By default this value is W.	DIR_MAXLONG
The direction of the Western Limit. By default this value is W.	DIR_MINLONG
The Hydrologic Unit Code value. By default this value is 'ALL'	AS_HUC
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1

Natural Language	Parameter
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3

Natural Language	Parameter
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags(). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A PI/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER

Natural Language	Parameter
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Mediums (Medium Key List).	D_MEDIUM_LIST

Internal Procedure Events:

Onload

- Populate the State Name list box with State Names organized alphabetically by country (with the U. S. first followed by Mexico and Canada).
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Populate the Activity Medium list box.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Geographic Location Section

- 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.
- 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.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.

- If the user selects 'All' State/Counties, all result records are included in the search.
- If the user selects 'All' HUCs, all result records are included in the search.
- If the user selects default latitude/longitude values (i.e., N=90, S=0, E=0, W=180), all result records are included in the search.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To Date = current date), all result records are included in the search.
- If a list of Activity Mediums is selected that includes 'Select All', all Activity Mediums are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- The user will not be allowed to proceed to the next page if a non-numeric character is entered in the latitude/longitude fields or if the entry is outside the Latitude/Longitude permitted value range.
- 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.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g. Jan 1, 2003 - Jan 1, 1900).

Code Changes:


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

Page Print:

First half of page.

EPA > STORET > Regular Results by Geographic Location - Microsoft Internet Explorer

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

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Regular Results by Geographic Location

Geographic Location

Select a single type of location search that you wish to perform (state/county, latitude/longitude, or HUC). Then enter the corresponding search criteria.

<input checked="" type="radio"/> State/County	State Name <input type="text" value="ALL"/>	County Name <input type="text" value="ALL"/>	<input type="button" value="Look Up"/>												
<input type="radio"/> Latitude/Longitude (in decimal degrees)	<table><tr><td>West Limit <input type="text" value="180"/></td><td>North Limit <input type="text" value="90"/></td><td>East Limit <input type="text" value="0"/></td></tr><tr><td><input type="button" value="W"/></td><td><input type="button" value="N"/></td><td><input type="button" value="E"/></td></tr><tr><td colspan="3">South Limit <input type="text" value="0"/></td></tr><tr><td colspan="3"><input type="button" value="S"/></td></tr></table>			West Limit <input type="text" value="180"/>	North Limit <input type="text" value="90"/>	East Limit <input type="text" value="0"/>	<input type="button" value="W"/>	<input type="button" value="N"/>	<input type="button" value="E"/>	South Limit <input type="text" value="0"/>			<input type="button" value="S"/>		
West Limit <input type="text" value="180"/>	North Limit <input type="text" value="90"/>	East Limit <input type="text" value="0"/>													
<input type="button" value="W"/>	<input type="button" value="N"/>	<input type="button" value="E"/>													
South Limit <input type="text" value="0"/>															
<input type="button" value="S"/>															
<input type="radio"/> Drainage Basin/HUC	Cataloging Unit <input type="text" value="ALL"/> <input type="button" value="Look Up"/>														

Date

Specify Activity Start Date range(s)

Date Range 1:	<input type="text" value="JAN"/>	<input type="text" value="1"/>	<input type="text" value="1900"/>	To	<input type="text" value="AUG"/>	<input type="text" value="29"/>	<input type="text" value="2003"/>
Date Range 2:	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>	To	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>
Date Range 3:	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>	To	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>
Date Range 4:	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>	To	<input type="text" value="---"/>	<input type="text" value="--"/>	<input type="text" value="-----"/>

Activity Medium

Select one or more Activity Medium

Done Internet

Second half of page.

EPA > STORET > Regular Results by Geographic Location - Microsoft Internet Explorer

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

Activity Medium

Select one or more Activity Medium

ACTIVITY MEDIUM

Select All
Water
Sediment
Soil
Air
Other

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search

Characteristic Alias Type

STORET DEFAULT

☒ Hide Taxonomic Names

Characteristic Name

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_resultcriteria_geo

Done Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1435, 1436, 1437, 1442, 1443, 1500

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Criteria_Project

Web Page Name: Regular Results by Project

Date: 3/28/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 9/03/2003; William Nash 9/4/2003

Processing Overview/Description:

The Regular Results by Project page is the third Regular Result search page of the STORET Central Warehouse and provides four major search areas: Organization/Project, Date, Activity Medium, and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select a single Project from a single Organization. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Regular Results by Project

Input Parameters:

These parameters are passed from the two Popup windows (DW_Project_Popup and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Project_Popup	STORET: Select Project	Look Up
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Project. By default this value is 'Select a Project'.	AS_PROJ
The key of the selected Project. By default this value is 0.	D_PROJ_LIST

Natural Language	Parameter
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY2
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3

Natural Language	Parameter
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE

Natural Language	Parameter
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is 'ON'.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Mediums (Medium Key List).	D_MEDIUM_LIST

Internal Procedure Events:

Onload

- Populate the Organization list box with Organization IDs and Names organized by Organization ID.
- For Date Range 1, select default values of FROM = 'Jan-1-1900' and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., '—') to denote this.
- Populate the Activity Medium list box.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Organization/Project Section

- Project 'Lookup' onclick: Display a pop-up window showing the available Projects for the Organization currently selected from the drop-down list. Populate the Project Name textbox with the Project that the user selects from the pop-up window and populate the hidden variable D_PROJ_LIST with the corresponding key.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.

- If the user has selected an Organization but does not select a Project, data for the selected Organization is retrieved for the report.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.
- If a list of Activity Mediums is selected that includes 'Select All', all Activity Mediums are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Project look-up before selecting an Organization.
- The Project field is reset to 'Select a Project' if the selected Organization is changed.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900).

Code Changes:

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


Page Print:

First half of page.

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Regular Results by Project

Project

Step 1: Select a Single Organization from the List

ORG ID	ORGANIZATION NAME
Select an Organization	

Step 2: Select a Single Project by Clicking "Look Up"

Select a Project

Date

Specify Activity Start Date range(s)

Date Range 1:	JAN	1	1900	To	AUG	29	2003
Date Range 2:	---	---	----	To	---	---	----
Date Range 3:	---	---	----	To	---	---	----
Date Range 4:	---	---	----	To	---	---	----

Activity Medium

Select one or more Activity Medium

ACTIVITY MEDIUM
Select All
Water
Sediment
Soil
Air
Other

Internet

Second half of page.

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Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search <input type="text"/>	Characteristic Alias Type STORET DEFAULT
<input type="button" value="Search"/> <input checked="" type="checkbox"/> Hide Taxonomic Names	
Characteristic Name <div><div></div></div>	
<input type="button" value="Clear Selected"/> <input type="button" value="Clear All"/>	

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_resultcriteria_project

Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1435, 1436, 1437, 1438, 1443, 1500

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Criteria_Station

Web Page Name: Regular Results by Station

Date: 4/02/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 9/03/2003; William Nash 9/4/2003

Processing Overview/Description:

The Regular Results by Station page is the second Regular Result search page of the STORET Central Warehouse and provides four major search areas: Organization/Station, Date, Activity Medium and Characteristic. A user is able to accept default values or enter specific selection criteria for each of these query dimensions. The user is able to select Stations from multiple Organizations, but is limited to selecting a maximum of 100 Stations per query. The user is able to select up to four date ranges and 50 Characteristics per query.

Tables Used:

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

Entity	Attribute	Display
Organization (DI_ORG)	ORGANIZATION_NAME	Y
	ORGANIZATION_ID	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Regular Results by Station

Input Parameters:

These parameters are passed from the three Popup windows (DW_Extref_Popup, DW_Station_Popup and DW_Char_Alias_Popup) back to this procedure.

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Type. By default this value is 0.	D_EXTREF_LIST
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

Links To:

Procedure	Web_Page	Button/Text
DW_Extref_Popup	STORET: Select a Station Alias Type	Look Up
DW_Station_Popup	STORET: Station Search Results	Search Stations
DW_Char_Alias_Popup	STORET: Characteristic Search Results	Search
DW_Result_Count	Result Search Summary	Continue

Output Parameters:

Natural Language	Parameter
The name of the selected Station Alias Type. By default this value is 'STANDARD'.	AS_EXTREF
The key of the selected Station Alias Types. By default this value is 0.	D_EXTREF_LIST
The search string used to find Stations within the Organization. By default this value is 'DUMMY'.	AS_STATION
A Pl/Sql table of selected Stations (Station Key List). By default this value is 'DUMMY'.	STATION_LIST
The names of the selected Station(s) string separated by HTML break tags (). By default this value is NULL.	V_STATION_NAMES
The month of the beginning date of the first query date range. By default this value is Jan.	FROM_MON1
The day of the month of the beginning date of the first query date range. By default this value is 1.	FROM_DD1
The year of the beginning date of the first query date range. By default this value is 1900.	FROM_YYYY1
The month of the ending date of the first query date range. By default this value is the current month.	END_MON1
The day of the month of the ending date of the first query date range. By default this value is the current day of the month.	END_DD1
The year of the ending date of the first query date range. By default this value is the current year.	END_YYYY1
The month of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_MON2
The day of the month of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_DD2
The year of the beginning date of the second query date range. By default this value is NULL (displayed as "—").	FROM_YYYY2

Natural Language	Parameter
The month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_MON2
The day of the month of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_DD2
The year of the ending date of the second query date range. By default this value is NULL (displayed as “—”).	END_YYYY2
The month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_MON3
The day of the month of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_DD3
The year of the beginning date of the third query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY3
The month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_MON3
The day of the month of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_DD3
The year of the ending date of the third query date range. By default this value is NULL (displayed as “—”).	END_YYYY3
The month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_MON4
The day of the month of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_DD4
The year of the beginning date of the fourth query date range. By default this value is NULL (displayed as “—”).	FROM_YYYY4
The month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—”).	END_MON4

Natural Language	Parameter
The day of the month of the ending date of the fourth query date range. By default this value is NULL (displayed as “—“).	END_DD4
The year of the ending date of the fourth query date range. By default this value is NULL (displayed as “—“).	END_YYYY4
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
The Characteristic naming convention being used for the Characteristic Search. By default this value is 0 (STORET DEFAULT).	AS_CHAR_ALIAS_TYPE
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is ‘DUMMY’.	CHAR_LIST
Boolean flag used to signal whether taxonomic names should be included in characteristic searches. By default this value is ‘ON’.	TAXON_FILTER
A Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST
Used to identify which type of result data to query against.	RESULT_TYPE
A Pl/Sql table of selected Activity Mediums (Medium Key List).	D_MEDIUM_LIST

Internal Procedure Events:

Onload

- Populate the Organization list box with Organization IDs and Names organized by Organization ID.
- For Date Range 1, select default values of FROM = ‘Jan-1-1900’ and TO = the current date. The other three date values should be unselected by default and will contain line spaces (i.e., ‘—’) to denote this.

- Populate the Activity Medium list box.
- Ensure that all selection criteria and hidden text fields are set to the appropriate default values.

Station Section

- ‘Look Up’ onclick: Display a popup window showing the Station Alias Types that match the Organization selected by the user. If the user has not selected an Organization, display an alert message prompting them to do so. Populate the Station Alias Type display field with the Station Alias Type the user selects from the pop-up window.
- ‘Search Stations’ onclick: Display a pop-up window showing the Stations that match the search string, search type, Station Alias Type, and Organization entered by the user. If the user has not entered a search string, display an alert message prompting them to do so. Populate the Station listbox with the Stations the user selects from the pop-up window. No more than 100 Stations can be added to the Selected Stations list.
- ‘Clear Selected’ onclick: All selected Stations are removed from the stations selected list.
- ‘Clear All’ onclick: All Stations are removed from the stations selected list.

Date Section

- Block the selection of invalid dates by altering the day list box to reflect the correct number of days in the month each time the month or year is changed.

Characteristic Section

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

- See DW_Top_of_Page Specifications for a description of the standard header links on each page.
- See DW_Bottom_of_page Specifications for a description of the standard footer links on each page.

Images:

The only images used on the STORET Central Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- If the user has selected an Organization but does not select any Stations, data for the selected Organization is retrieved for the report.
- Stations can not be added to the Selected Stations list more than once.
- If the user selects ‘Search by Station Alias Type’ but does not change the selected Station Alias Type (i.e., default of ‘STANDARD’), then Stations will be searched by ID.
- The user may add no more than 100 Stations to the Selected Stations list. The attempted addition of Stations in excess of this limit is blocked and an alert is displayed.
- If the user selects default date values (i.e., From Date = Jan 1, 1900, To = current date), all result records are included in the search.
- If a list of Activity Mediums is selected that includes ‘Select All’, all Activity Mediums are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- 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 Station search before entering a search string.
- An alert is displayed if the user attempts to perform a Station search before selecting an Organization.
- An alert is displayed if the user attempts to perform a Station Alias Type lookup before selecting an Organization.
- The user will not be allowed to proceed to the next page if an invalid date range is entered in the month-day-year selection boxes (e.g., Jan 1, 2003 - Jan 1, 1900)

Code Changes:


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

Page Print:

First half of page.

EPA > STORET > Regular Results by Station - Microsoft Internet Explorer

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

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Regular Results by Station

Station

Select an Organization and a Search Type, then enter a Search String and click "Search Stations".

ORG ID	ORGANIZATION NAME
Select an Organization	

Search Type

☒ Search by Station ID
☐ Search by Station Name
☐ Search by Station Alias

Select Station Alias Type:

Search String

Org ID	Station ID	Alias Type	Station Alias	Station Name
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Date

Internet

Second half of page.

EPA > STORET > Regular Results by Station - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Date

Specify Activity Start Date range(s)

Date Range 1: JAN 1 1900 To AUG 29 2003

Date Range 2: --- --- --- To --- --- ---

Date Range 3: --- --- --- To --- --- ---

Date Range 4: --- --- --- To --- --- ---

Activity Medium

Select one or more Activity Medium

ACTIVITY MEDIUM

Select All

Water

Sediment

Soil

Air

Other

Characteristic

Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search

Characteristic Alias Type

STORET DEFAULT

Search

☒ Hide Taxonomic Names

Characteristic Name

Clear Selected

Clear All

Continue

Clear Form

Internet

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1446, 1500, 1502, 1503

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Download_Custom

Web Page Name: None

Date: 4/15/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 8/8/2003

Processing Overview/Description:

The DW_Result_Download_Custom procedure receives processed result search criteria and the list of requested report elements from the DW_Result_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_Result_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 may be included in user generated reports. See Business Rules section for display order)

Entity	Attribute	Display
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
	PK_ISN	N
State (DI_GEO_STATE)	STATE_NAME	Y
	PK_ISN	N
Organization (DI_ORG)	ORGANIZATION_NAME	Y

Entity	Attribute	Display
	PK_ISN	N
Horizontal Datum (LU_MAD_HDATUM)	HORIZONTAL_DATUM	Y
	PK_ISN	N
Horizontal Method (LU_MAD_HMETHOD)	GEOPOSITIONING_METHOD	Y
	PK_ISN	N
FA_REGULAR_RESULT	ORGANIZATION_ID	Y
	STATION_ID	Y
	STATION_NAME	Y
	STN_LATITUDE	Y
	STN_LONGITUDE	Y
	HYDROLOGIC_UNIT_CODE	Y
	SGO_INDICATOR	Y
	STATION_VISIT_ID	Y
	VISIT_START_DATE_TIME	Y
	VISIT_START_TIME_ZONE	Y
	VISIT_STOP_DATE_TIME	Y
	VISIT_STOP_TIME_ZONE	Y
	TRIP_ID	Y
	TRIP_NAME	Y
	ACTIVITY_ID	Y
	ACTIVITY_START_DATE_TIME	Y
	ACT_START_TIME_ZONE	Y
	ACTIVITY_STOP_DATE_TIME	Y
	ACT_STOP_TIME_ZONE	Y
	ACTIVITY_MEDIUM	Y

Entity	Attribute	Display
	ACTIVITY_MATRIX	Y
	ACTIVITY_TYPE	Y
	ACTIVITY_CATEGORY	Y
	REPLICATE_NUMBER	Y
	ACTIVITY_INTENT	Y
	FIELD_SET	Y
	LOCATION_POINT_TYPE	Y
	POINT_SEQUENCE_NUMBER	Y
	POINT_NAME	Y
	ACTIVITY_LATITUDE	Y
	ACTIVITY_LONGITUDE	Y
	WELL_NUMBER	Y
	PIPE_NUMBER	Y
	MAP_SCALE	Y
	ACTIVITY_DEPTH	Y
	ACTIVITY_DEPTH_UNIT	Y
	ACTIVITY_UPPER_DEPTH	Y
	ACTIVITY_REL_DEPTH	Y
	ACTIVITY_LOWER_DEPTH	Y
	UPR_LWR_DEPTH_UNIT	Y
	FIELD_PROCEDURE_ID	Y
	FIELD_GEAR_ID	Y
	GEAR_CONFIG_ID	Y
	CONTAINER_DESC	Y
	TEMP_PRESERVN_TYPE	Y
	PRESRV_STRGE_PRCDR	Y
	PORTABLE_DATA_LOGGER	Y

Entity	Attribute	Display
	CHARACTERISTIC_NAME	Y
	CAS_NUMBER	Y
	EPA_REG_NUMBER	Y
	ITIS_NUMBER	Y
	SAMPLE_FRACTION_TYPE	Y
	RESULT_VALUE_TYPE	Y
	STATISTIC_TYPE	Y
	RESULT_VALUE_TEXT	Y
	RESULT_VALUE	Y
	RESULT_UNIT	Y
	RESULT_COMMENT	Y
	TEXT_RESULT	Y
	WEIGHT_BASIS_TYPE	Y
	TEMPERATURE_BASIS_LEVEL	Y
	DURATION_BASIS	Y
	PARTICLE_SIZE	Y
	DISTANCE_MEASURE_FROM	Y
	DISTANCE_MEASURE_TO	Y
	ANALYTICAL_PROCEDURE_SOURCE	Y
	ANALYTICAL_PROCEDURE_ID	Y
	DETECTION_LIMIT	Y
	DETECTION_LIMIT_DESCRIPTION	Y
	LOWER_QUANTITATION_LIMIT	Y
	UPPER_QUANTITATION_LIMIT	Y
	LAB_REMARK	Y
	DILUTION_INDICATOR	Y
	RECOVERY_INDICATOR	Y

Entity	Attribute	Display
	CORRECTION_INDICATOR	Y
	LAB_ID	Y
	LAB_NAME	Y
	LAB_CERTIFIED	Y
	LAB_BATCH_ID	Y
	ANALYSIS_DATE_TIME	Y
	ANALYSIS_TIME_ZONE	Y
	REPLICATE_ANALYSIS_COUNT	Y
	PRECISION	Y
	BIAS	Y
	CONFIDENCE_LEVEL	Y
	CONF_LVL_CORR_BIAS	Y
	FK_ACT_MAD_HDATUM	N
	FK_ACT_MAD_HMETHOD	N
	FK_ORG	N
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_DB_CAT	N
	FK_ACT_MEDIUM	N
	PK_ISN	N
	FK_ACT_START_DATE	N
FA_BIOLOGICAL_RESULT	ORGANIZATION_ID	Y
	STATION_ID	Y
	STATION_NAME	Y
	STN_LATITUDE	Y
	STN_LONGITUDE	Y
	HYDROLOGIC_UNIT_CODE	Y

Entity	Attribute	Display
	SGO_INDICATOR	Y
	STATION_VISIT_ID	Y
	VISIT_START_DATE_TIME	Y
	VISIT_STOP_DATE_TIME	Y
	TRIP_ID	Y
	TRIP_NAME	Y
	ACTIVITY_ID	Y
	ACTIVITY_START_DATE_TIME	Y
	ACTIVITY_STOP_DATE_TIME	Y
	ACTIVITY_MEDIUM	Y
	ACTIVITY_TYPE	Y
	ACTIVITY_CATEGORY	Y
	REPLICATE_NUMBER	Y
	ACTIVITY_INTENT	Y
	ACTIVITY_COMMUNITY	Y
	ACTIVITY_SUBJECT_TAXON	Y
	BIOPART_NAME	Y
	FIELD_SET	Y
	LOCATION_POINT_TYPE	Y
	POINT_SEQUENCE_NUMBER	Y
	POINT_NAME	Y
	ACTIVITY_LATITUDE	Y
	ACTIVITY_LONGITUDE	Y
	WELL_NUMBER	Y
	PIPE_NUMBER	Y
	MAP_SCALE	Y
	ACTIVITY_DEPTH	Y

Entity	Attribute	Display
	ACTIVITY_DEPTH_UNIT	Y
	ACTIVITY_UPPER_DEPTH	Y
	ACTIVITY_REL_DEPTH	Y
	ACTIVITY_LOWER_DEPTH	Y
	UPR_LWR_DEPTH_UNIT	Y
	FIELD_PROCEDURE_ID	Y
	FIELD_GEAR_ID	Y
	GEAR_CONFIG_ID	Y
	CONTAINER_DESC	Y
	TEMP_PRESERVN_TYPE	Y
	PRESRV_STRGE_PRCDR	Y
	CHARACTERISTIC_NAME	Y
	CAS_NUMBER	Y
	EPA_REG_NUMBER	Y
	ITIS_NUMBER	Y
	SAMPLE_FRACTION_TYPE	Y
	RESULT_VALUE_TYPE	Y
	STATISTIC_TYPE	Y
	RESULT_VALUE_TEXT	Y
	RESULT_VALUE	Y
	RESULT_UNIT	Y
	RESULT_COMMENT	Y
	TEXT_RESULT	Y
	WEIGHT_BASIS_TYPE	Y
	TEMPERATURE_BASIS_LEVEL	Y
	DURATION_BASIS	Y
	PARTICLE_SIZE	Y

Entity	Attribute	Display
	DISTANCE_MEASURE_FROM	Y
	DISTANCE_MEASURE_TO	Y
	ANALYTICAL_PROCEDURE_SOURCE	Y
	ANALYTICAL_PROCEDURE_ID	Y
	DETECTION_LIMIT	Y
	DETECTION_LIMIT_DESCRIPTION	Y
	LOWER_QUANTITATION_LIMIT	Y
	UPPER_QUANTITATION_LIMIT	Y
	LAB_REMARK	Y
	DILUTION_INDICATOR	Y
	RECOVERY_INDICATOR	Y
	CORRECTION_INDICATOR	Y
	LAB_ID	Y
	LAB_NAME	Y
	LAB_CERTIFIED	Y
	LAB_BATCH_ID	Y
	ANALYSIS_DATE_TIME	Y
	ANALYSIS_TIME_ZONE	Y
	REPLICATE_ANALYSIS_COUNT	Y
	PRECISION	Y
	BIAS	Y
	CONFIDENCE_LEVEL	Y
	CONF_LVL_CORR_BIAS	Y
	TR_START_POINT_NAME	Y
	TR_START_LATITUDE	Y
	TR_START_LONGITUDE	Y
	TR_START_DEPTH	Y

Entity	Attribute	Display
	TR_STOP_POINT_NAME	Y
	TR_STOP_LATITUDE	Y
	TR_STOP_LONGITUDE	Y
	TR_STOP_DEPTH	Y
	FISHED_DURATION	Y
	BOAT_SPEED	Y
	FISHED_DISTANCE	Y
	REL_CURRENT_DIR	Y
	REL_WIND_DIR	Y
	TRAWL_COMMENT	Y
	VOLTAGE_MEASURE	Y
	CURRENT_TYPE_CODE	Y
	AMPERAGE_MEASURE	Y
	PASS_COUNT	Y
	PASS_LENGTH	Y
	PULSE_RATE	Y
	ELECTROSHOCK_COMMENT	Y
	TOTAL_ENERGZD_TIME	Y
	SAMPLING_DURATION	Y
	ORIENTATION_TO_CURRENT	Y
	REL_CURRENT_DIR	Y
	REL_WIND_DIR	Y
	TRAP_NET_COMMENT	Y
	BIO_GROUP_ID	Y
	BIO_GROUP_TYPE	Y
	BIO_GROUP_SUBJECT_TXN	Y
	BIO_GROUP_DESCRIPTION	Y

Entity	Attribute	Display
	FEEDING_GROUP	Y
	POLLUTION_TOLERANCE	Y
	TROPHIC_LEVEL	Y
	HABIT	Y
	VOLTINISM	Y
	CELL_SHAPE	Y
	CELL_FORM	Y
	NUMBER_IN_GROUP	Y
	BIO_GROUP_COUNT_TYPE	Y
	PHYS_BIO_INDICATOR	Y
	GROUP_DESC_SEX	Y
	GROUP_DESC_LIFESTAGE	Y
	COMMON_CLASS_DESC	Y
	PRIMARY_CLASS_DESC	Y
	SECONDARY_CLASS_DESC	Y
	LOWER_BOUND_AMOUNT	Y
	UPPER_BOUND_AMOUNT	Y
	BIO_RCI_UNITS	Y
	NUMBER_IN_GROUP	Y
	INDIVIDUAL_NUMBER	Y
	FK_ACT_MAD_HDATUM	N
	FK_ACT_MAD_HMETHOD	N
	FK_ORG	N
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_DB_CAT	N
	FK_ACT_INTENT	N

Entity	Attribute	Display
	PK_ISN	N
	FK_ACT_START_DATE	N
	FK_COMMUNITY_SAMPLED	N
FA_HABITAT_RESULT	ORGANIZATION_ID	Y
	STATION_ID	Y
	STATION_NAME	Y
	STN_LATITUDE	Y
	STN_LONGITUDE	Y
	HYDROLOGIC_UNIT_CODE	Y
	SGO_INDICATOR	Y
	STATION_VISIT_ID	Y
	VISIT_START_DATE_TIME	Y
	VISIT_START_TIME_ZONE	Y
	VISIT_STOP_DATE_TIME	Y
	VISIT_STOP_TIME_ZONE	Y
	TRIP_ID	Y
	TRIP_NAME	Y
	ACTIVITY_ID	Y
	ACTIVITY_START_DATE_TIME	Y
	ACT_START_TIME_ZONE	Y
	ACTIVITY_STOP_DATE_TIME	Y
	ACT_STOP_TIME_ZONE	Y
	ACTIVITY_TYPE	Y
	FIELD_SET	Y
	LOCATION_POINT_TYPE	Y
	POINT_SEQUENCE_NUMBER	Y
	POINT_NAME	Y

Entity	Attribute	Display
	ACTIVITY_LATITUDE	Y
	ACTIVITY_LONGITUDE	Y
	WELL_NUMBER	Y
	PIPE_NUMBER	Y
	MAP_SCALE	Y
	CHARACTERISTIC_NAME	Y
	HABITAT_CLASS_NAME	Y
	EPA_REG_NUMBER	Y
	SAMPLE_FRACTION_TYPE	Y
	RESULT_VALUE_TYPE	Y
	STATISTIC_TYPE	Y
	RESULT_VALUE_TEXT	Y
	RESULT_VALUE	Y
	RESULT_UNIT	Y
	RESULT_COMMENT	Y
	TEXT_RESULT	Y
	WEIGHT_BASIS_TYPE	Y
	TEMPERATURE_BASIS_LEVEL	Y
	DURATION_BASIS	Y
	DISTANCE_MEASURE_FROM	Y
	DISTANCE_MEASURE_TO	Y
	ANALYTICAL_PROCEDURE_SOURCE	Y
	ANALYTICAL_PROCEDURE_ID	Y
	DETECTION_LIMIT	Y
	DETECTION_LIMIT_DESCRIPTION	Y
	LOWER_QUANTITATION_LIMIT	Y
	UPPER_QUANTITATION_LIMIT	Y

Entity	Attribute	Display
	LAB_REMARK	Y
	DILUTION_INDICATOR	Y
	RECOVERY_INDICATOR	Y
	CORRECTION_INDICATOR	Y
	LAB_ID	Y
	LAB_NAME	Y
	LAB_CERTIFIED	Y
	LAB_BATCH_ID	Y
	ANALYSIS_DATE_TIME	Y
	ANALYSIS_TIME_ZONE	Y
	REPLICATE_ANALYSIS_COUNT	Y
	PRECISION	Y
	BIAS	Y
	CONFIDENCE_LEVEL	Y
	CONF_LVL_CORR_BIAS	Y
	FK_ACT_MAD_HDATUM	N
	FK_ACT_MAD_HMETHOD	N
	FK_ORG	N
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_DB_CAT	N
	FK_ACT_MEDIUM	N
	PK_ISN	N
	FK_ACT_START_DATE	N
Column Names (APP_COLUMN_NAME)	PRINT_NAME	Y
	COL_NAME	N
	REG_COL_ORDER	N

Entity	Attribute	Display
	REG_REPORT_NUMBER	N
	BIO_COL_ORDER	N
	BIO_COL_NUMBER	N
	HAB_COL_ORDER	N
	HAB_COL_NUMBER	N

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Hub_Custom	Download Result	None (called automatically during load)

Input Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting results.	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting results.	V_WHERESTMT
A Pl/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
Indicates whether RULE BASED query optimization should be employed (this is for performance tuning).	V_RULE_OPTIMIZATION
The type of Result Report being generated (Regular, Biological, or Habitat).	REPORT_TYPE

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Hub_Custom	Download Result	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

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

Images:

None.

Business Rules:

- 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.
- Display only the columns that correspond to the list of selected report elements.
- Separate all report columns with the tilde sign ('~').
- Do not return the name of the report file created until report generation has completed.
- Display report columns in the order listed below.

For Regular Result Report:

Column Title	Table Name	Column Name
Org ID	FA_REGULAR_RESULT	ORGANIZATION_ID

Column Title	Table Name	Column Name
Org Name	DI_ORG	ORGANIZATION_NAME
Station ID	FA_REGULAR_RESULT	STATION_ID
Station Name	FA_REGULAR_RESULT	STATION_NAME
Station Latitude	FA_REGULAR_RESULT	STN_LATITUDE
Station Longitude	FA_REGULAR_RESULT	STN_LONGITUDE
State Name	DI_GEO_STATE	STATE_NAME
County Name	DI_GEO_COUNTY	COUNTY_NAME
HUC	FA_REGULAR_RESULT	HYDROLOGIC_UNIT_CODE
S/G/O Indicator	FA_REGULAR_RESULT	SGO_INDICATOR
Visit Num	FA_REGULAR_RESULT	STATION_VISIT_ID
Visit Start	FA_REGULAR_RESULT	VISIT_START_DATE_TIME
	FA_REGULAR_RESULT	VISIT_START_TIME_ZONE
Visit Stop	FA_REGULAR_RESULT	VISIT_STOP_DATE_TIME
	FA_REGULAR_RESULT	VISIT_STOP_TIME_ZONE
Trip ID	FA_REGULAR_RESULT	TRIP_ID
Trip Name	FA_REGULAR_RESULT	TRIP_NAME
Activity ID	FA_REGULAR_RESULT	ACTIVITY_ID
Activity Start	FA_REGULAR_RESULT	ACTIVITY_START_DATE_TIME
	FA_REGULAR_RESULT	ACT_START_TIME_ZONE
Activity Stop	FA_REGULAR_RESULT	ACTIVITY_STOP_DATE_TIME
	FA_REGULAR_RESULT	ACT_STOP_TIME_ZONE
Activity Medium	FA_REGULAR_RESULT	ACTIVITY_MEDIUM
Activity Matrix	FA_REGULAR_RESULT	ACTIVITY_MATRIX
Activity Type	FA_REGULAR_RESULT	ACTIVITY_TYPE
Activity Category-Rep Num	FA_REGULAR_RESULT	ACTIVITY_CATEGORY
	FA_REGULAR_RESULT	REPLICATE_NUMBER
Activity Intent	FA_REGULAR_RESULT	ACTIVITY_INTENT

Column Title	Table Name	Column Name
Field Set	FA_REGULAR_RESULT	FIELD_SET
Actual Location Point Type	FA_REGULAR_RESULT	LOCATION_POINT_TYPE
Actual Point Sequence Num	FA_REGULAR_RESULT	POINT_SEQUENCE_NUMBER
Actual Point Name	FA_REGULAR_RESULT	POINT_NAME
Actual Activity Latitude	FA_REGULAR_RESULT	ACTIVITY_LATITUDE
Actual Activity Longitude	FA_REGULAR_RESULT	ACTIVITY_LONGITUDE
Well Number	FA_REGULAR_RESULT	WELL_NUMBER
Pipe Number	FA_REGULAR_RESULT	PIPE_NUMBER
Geopositioning Method	LU_MAD_HMETHOD	GEOPOSITIONING_METHOD
Horizontal Datum	LU_MAD_HDATUM	HORIZONTAL_DATUM
Map Scale	FA_REGULAR_RESULT	MAP_SCALE
Activity Depth	FA_REGULAR_RESULT	ACTIVITY_DEPTH
Activity Depth Unit	FA_REGULAR_RESULT	ACTIVITY_DEPTH_UNIT
Activity Upper Depth	FA_REGULAR_RESULT	ACTIVITY_UPPER_DEPTH
Activity Rel Depth	FA_REGULAR_RESULT	ACTIVITY_REL_DEPTH
Activity Lower Depth	FA_REGULAR_RESULT	ACTIVITY_LOWER_DEPTH
Upr Lwr Depth Unit	FA_REGULAR_RESULT	UPR_LWR_DEPTH_UNIT
Sample Collection ID	FA_REGULAR_RESULT	FIELD_PROCEDURE_ID
Field Gear ID	FA_REGULAR_RESULT	FIELD_GEAR_ID
Field Gear Config ID	FA_REGULAR_RESULT	GEAR_CONFIG_ID
Container Desc	FA_REGULAR_RESULT	CONTAINER_DESC
Temp Pres Type	FA_REGULAR_RESULT	TEMP_PRESERVN_TYPE
Pres Storage Proc	FA_REGULAR_RESULT	PRESRV_STRGE_PRCDR
Portable Data Logger	FA_REGULAR_RESULT	PORTABLE_DATA_LOGGER
Characteristic Name	FA_REGULAR_RESULT	CHARACTERISTIC_NAME
CAS Num	FA_REGULAR_RESULT	CAS_NUMBER
EPA Registry Num	FA_REGULAR_RESULT	EPA_REG_NUMBER

Column Title	Table Name	Column Name
ITIS Num	FA_REGULAR_RESULT	ITIS_NUMBER
Sample Fraction	FA_REGULAR_RESULT	SAMPLE_FRACTION_TYPE
Value Type	FA_REGULAR_RESULT	RESULT_VALUE_TYPE
Statistic Type	FA_REGULAR_RESULT	STATISTIC_TYPE
Result Value as Text	FA_REGULAR_RESULT	RESULT_VALUE_TEXT
Result Value as Number	FA_REGULAR_RESULT	RESULT_VALUE
Units	FA_REGULAR_RESULT	RESULT_UNIT
Result Comment	FA_REGULAR_RESULT	RESULT_COMMENT
Result Free Text	FA_REGULAR_RESULT	TEXT_RESULT
Weight Basis	FA_REGULAR_RESULT	WEIGHT_BASIS_TYPE
Temperature Basis	FA_REGULAR_RESULT	TEMPERATURE_BASIS_LEVEL
Duration Basis	FA_REGULAR_RESULT	DURATION_BASIS
Particle Size Basis	FA_REGULAR_RESULT	PARTICLE_SIZE
Distance Measured From	FA_REGULAR_RESULT	DISTANCE_MEASURE_FROM
Distance Measured To	FA_REGULAR_RESULT	DISTANCE_MEASURE_TO
Analytical Proc ID	FA_REGULAR_RESULT	ANALYTICAL_PROC_SOURCE
	FA_REGULAR_RESULT	ANALYTICAL_PROCEDURE_ID
Detection Limit	FA_REGULAR_RESULT	DETECTION_LIMIT
Detection Limit Descript	FA_REGULAR_RESULT	DETECTION_LIMIT_DESCRIPTION
Lower Quantification Limit	FA_REGULAR_RESULT	LOWER_QUANTITATION_LIMIT
Upper Quantification Limit	FA_REGULAR_RESULT	UPPER_QUANTITATION_LIMIT
Lab Remark	FA_REGULAR_RESULT	LAB_REMARK
Dilution Ind	FA_REGULAR_RESULT	DILUTION_INDICATOR
Recovery Ind	FA_REGULAR_RESULT	RECOVERY_INDICATOR
Correction Ind	FA_REGULAR_RESULT	CORRECTION_INDICATOR
Lab ID	FA_REGULAR_RESULT	LAB_ID
Lab Name	FA_REGULAR_RESULT	LAB_NAME

Column Title	Table Name	Column Name
Lab Cert	FA_REGULAR_RESULT	LAB_CERTIFIED
Lab Batch ID	FA_REGULAR_RESULT	LAB_BATCH_ID
Analysis Date	FA_REGULAR_RESULT	ANALYSIS_DATE_TIME
	FA_REGULAR_RESULT	ANALYSIS_TIME_ZONE
Num of Reps	FA_REGULAR_RESULT	REPLICATE_ANALYSIS_COUNT
Precision	FA_REGULAR_RESULT	PRECISION
Bias	FA_REGULAR_RESULT	BIAS
Conf Level	FA_REGULAR_RESULT	CONFIDENCE_LEVEL
Correction for Bias Ind	FA_REGULAR_RESULT	CONF_LVL_CORR_BIAS

For Biological Result Report:

Column Title	Table Name	Column Name
Org ID	FA_BIOLOGICAL_RESULT	ORGANIZATION_ID
Org Name	DI_ORG	ORGANIZATION_NAME
Station ID	FA_BIOLOGICAL_RESULT	STATION_ID
Station Name	FA_BIOLOGICAL_RESULT	STATION_NAME
Station Latitude	FA_BIOLOGICAL_RESULT	STN_LATITUDE
Station Longitude	FA_BIOLOGICAL_RESULT	STN_LONGITUDE
State Name	DI_GEO_STATE	STATE_NAME
County Name	DI_GEO_COUNTY	COUNTY_NAME
HUC	FA_BIOLOGICAL_RESULT	HYDROLOGIC_UNIT_CODE
S/G/O Indicator	FA_BIOLOGICAL_RESULT	SGO_INDICATOR
Visit Num	FA_BIOLOGICAL_RESULT	STATION_VISIT_ID
Visit Start	FA_BIOLOGICAL_RESULT	VISIT_START_DATE_TIME
	FA_BIOLOGICAL_RESULT	VISIT_START_TIME_ZONE
Visit Stop	FA_BIOLOGICAL_RESULT	VISIT_STOP_DATE_TIME
	FA_BIOLOGICAL_RESULT	VISIT_STOP_TIME_ZONE

Column Title	Table Name	Column Name
Trip ID	FA_BIOLOGICAL_RESULT	TRIP_ID
Trip Name	FA_BIOLOGICAL_RESULT	TRIP_NAME
Activity ID	FA_BIOLOGICAL_RESULT	ACTIVITY_ID
Activity Start	FA_BIOLOGICAL_RESULT	ACTIVITY_START_DATE_TIME
	FA_BIOLOGICAL_RESULT	ACT_START_TIME_ZONE
Activity Stop	FA_BIOLOGICAL_RESULT	ACTIVITY_STOP_DATE_TIME
	FA_BIOLOGICAL_RESULT	ACT_STOP_TIME_ZONE
Activity Medium	FA_BIOLOGICAL_RESULT	ACTIVITY_MEDIUM
Activity Type	FA_BIOLOGICAL_RESULT	ACTIVITY_TYPE
Activity Category-Rep Num	FA_BIOLOGICAL_RESULT	ACTIVITY_CATEGORY
	FA_BIOLOGICAL_RESULT	REPLICATE_NUMBER
Activity Intent	FA_BIOLOGICAL_RESULT	ACTIVITY_INTENT
Community Sampled	FA_BIOLOGICAL_RESULT	ACTIVITY_COMMUNITY
Subject Taxon	FA_BIOLOGICAL_RESULT	ACTIVITY_SUBJECT_TAXON
Biopart	FA_BIOLOGICAL_RESULT	BIOPART_NAME
Field Set	FA_BIOLOGICAL_RESULT	FIELD_SET
Actual Location Point Type	FA_BIOLOGICAL_RESULT	LOCATION_POINT_TYPE
Actual Point Sequence Num	FA_BIOLOGICAL_RESULT	POINT_SEQUENCE_NUMBER
Actual Point Name	FA_BIOLOGICAL_RESULT	POINT_NAME
Actual Activity Latitude	FA_BIOLOGICAL_RESULT	ACTIVITY_LATITUDE
Actual Activity Longitude	FA_BIOLOGICAL_RESULT	ACTIVITY_LONGITUDE
Well Number	FA_BIOLOGICAL_RESULT	WELL_NUMBER
Pipe Number	FA_BIOLOGICAL_RESULT	PIPE_NUMBER
Geopositioning Method	LU_MAD_HMETHOD	GEOPOSITIONING_METHOD
Horizontal Datum	LU_MAD_HDATUM	HORIZONTAL_DATUM
Map Scale	FA_BIOLOGICAL_RESULT	MAP_SCALE
Activity Depth	FA_BIOLOGICAL_RESULT	ACTIVITY_DEPTH

Column Title	Table Name	Column Name
Activity Depth Unit	FA_BIOLOGICAL_RESULT	ACTIVITY_DEPTH_UNIT
Activity Upper Depth	FA_BIOLOGICAL_RESULT	ACTIVITY_UPPER_DEPTH
Activity Rel Depth	FA_BIOLOGICAL_RESULT	ACTIVITY_REL_DEPTH
Activity Lower Depth	FA_BIOLOGICAL_RESULT	ACTIVITY_LOWER_DEPTH
Upr Lwr Depth Unit	FA_BIOLOGICAL_RESULT	UPR_LWR_DEPTH_UNIT
Sample Collection ID	FA_BIOLOGICAL_RESULT	FIELD_PROCEDURE_ID
Field Gear ID	FA_BIOLOGICAL_RESULT	FIELD_GEAR_ID
Field Gear Config ID	FA_BIOLOGICAL_RESULT	GEAR_CONFIG_ID
Container Desc	FA_BIOLOGICAL_RESULT	CONTAINER_DESC
Temp Pres Type	FA_BIOLOGICAL_RESULT	TEMP_PRESERVN_TYPE
Pres Storage Proc	FA_BIOLOGICAL_RESULT	PRESRV_STRGE_PRCDR
Characteristic Name	FA_BIOLOGICAL_RESULT	CHARACTERISTIC_NAME
CAS Num	FA_REGULAR_RESULT	CAS_NUMBER
EPA Registry Num	FA_BIOLOGICAL_RESULT	EPA_REG_NUMBER
ITIS Num	FA_BIOLOGICAL_RESULT	ITIS_NUMBER
Sample Fraction	FA_BIOLOGICAL_RESULT	SAMPLE_FRACTION_TYPE
Value Type	FA_BIOLOGICAL_RESULT	RESULT_VALUE_TYPE
Statistic Type	FA_BIOLOGICAL_RESULT	STATISTIC_TYPE
Result Value as Text	FA_BIOLOGICAL_RESULT	RESULT_VALUE_TEXT
Result Value as Number	FA_BIOLOGICAL_RESULT	RESULT_VALUE
Units	FA_BIOLOGICAL_RESULT	RESULT_UNIT
Result Comment	FA_BIOLOGICAL_RESULT	RESULT_COMMENT
Result Free Text	FA_BIOLOGICAL_RESULT	TEXT_RESULT
Weight Basis	FA_BIOLOGICAL_RESULT	WEIGHT_BASIS_TYPE
Temperature Basis	FA_BIOLOGICAL_RESULT	TEMPERATURE_BASIS_LEVEL
Duration Basis	FA_BIOLOGICAL_RESULT	DURATION_BASIS
Particle Size Basis	FA_BIOLOGICAL_RESULT	PARTICLE_SIZE

Column Title	Table Name	Column Name
Distance Measured From	FA_BIOLOGICAL_RESULT	DISTANCE_MEASURE_FROM
Distance Measured To	FA_BIOLOGICAL_RESULT	DISTANCE_MEASURE_TO
Analytical Proc ID	FA_BIOLOGICAL_RESULT	ANALYTICAL_PROC_SOURCE
	FA_BIOLOGICAL_RESULT	ANALYTICAL_PROCEDURE_ID
Detection Limit	FA_BIOLOGICAL_RESULT	DETECTION_LIMIT
Detection Limit Descript	FA_BIOLOGICAL_RESULT	DETECTION_LIMIT_DESCRIPTION
Lower Quantification Limit	FA_BIOLOGICAL_RESULT	LOWER_QUANTITATION_LIMIT
Upper Quantification Limit	FA_BIOLOGICAL_RESULT	UPPER_QUANTITATION_LIMIT
Lab Remark	FA_BIOLOGICAL_RESULT	LAB_REMARK
Dilution Ind	FA_BIOLOGICAL_RESULT	DILUTION_INDICATOR
Recovery Ind	FA_BIOLOGICAL_RESULT	RECOVERY_INDICATOR
Correction Ind	FA_BIOLOGICAL_RESULT	CORRECTION_INDICATOR
Lab ID	FA_BIOLOGICAL_RESULT	LAB_ID
Lab Name	FA_BIOLOGICAL_RESULT	LAB_NAME
Lab Cert	FA_BIOLOGICAL_RESULT	LAB_CERTIFIED
Lab Batch ID	FA_BIOLOGICAL_RESULT	LAB_BATCH_ID
Analysis Date	FA_BIOLOGICAL_RESULT	ANALYSIS_DATE_TIME
	FA_BIOLOGICAL_RESULT	ANALYSIS_TIME_ZONE
Num of Reps	FA_BIOLOGICAL_RESULT	REPLICATE_ANALYSIS_COUNT
Precision	FA_BIOLOGICAL_RESULT	PRECISION
Bias	FA_BIOLOGICAL_RESULT	BIAS
Conf Level	FA_BIOLOGICAL_RESULT	CONFIDENCE_LEVEL
Correction for Bias Ind	FA_BIOLOGICAL_RESULT	CONF_LVL_CORR_BIAS
Trawl Start Point Name	FA_BIOLOGICAL_RESULT	TR_START_POINT_NAME
Trawl Start Latitude	FA_BIOLOGICAL_RESULT	TR_START_LATITUDE
Trawl Start Longitude	FA_BIOLOGICAL_RESULT	TR_START_LONGITUDE
Trawl Start Depth	FA_BIOLOGICAL_RESULT	TR_START_DEPTH

Column Title	Table Name	Column Name
Trawl Stop Point Name	FA_BIOLOGICAL_RESULT	TR_STOP_POINT_NAME
Trawl Stop Latitude	FA_BIOLOGICAL_RESULT	TR_STOP_LATITUDE
Trawl Stop Longitude	FA_BIOLOGICAL_RESULT	TR_STOP_LONGITUDE
Trawl Stop Depth	FA_BIOLOGICAL_RESULT	TR_STOP_DEPTH
Fished Duration Measure	FA_BIOLOGICAL_RESULT	FISHED_DURATION
Boat Speed	FA_BIOLOGICAL_RESULT	BOAT_SPEED
Fished Distance	FA_BIOLOGICAL_RESULT	FISHED_DISTANCE
Rel Current Dir	FA_BIOLOGICAL_RESULT	REL_CURRENT_DIR
Rel Wind Dir	FA_BIOLOGICAL_RESULT	REL_WIND_DIR
Trawl Comment	FA_BIOLOGICAL_RESULT	TRAWL_COMMENT
Voltage Measure	FA_BIOLOGICAL_RESULT	VOLTAGE_MEASURE
Current Type Code	FA_BIOLOGICAL_RESULT	CURRENT_TYPE_CODE
Amperage Measure	FA_BIOLOGICAL_RESULT	AMPERAGE_MEASURE
Pass Count	FA_BIOLOGICAL_RESULT	PASS_COUNT
Pass Length Measure	FA_BIOLOGICAL_RESULT	PASS_LENGTH
Pulse Rate Measure	FA_BIOLOGICAL_RESULT	PULSE_RATE
Electroshock Comment	FA_BIOLOGICAL_RESULT	ELECTROSHOCK_COMMENT
Total Energzd Time	FA_BIOLOGICAL_RESULT	TOTAL_ENERGZD_TIME
Sampling Duration	FA_BIOLOGICAL_RESULT	SAMPLING_DURATION
Orientation to Current	FA_BIOLOGICAL_RESULT	ORIENTATION_TO_CURRENT
Rel Current Dir	FA_BIOLOGICAL_RESULT	REL_CURRENT_DIR
Rel Wind Dir	FA_BIOLOGICAL_RESULT	REL_WIND_DIR
Trap Net Comment	FA_BIOLOGICAL_RESULT	TRAP_NET_COMMENT
Bio Result Group ID	FA_BIOLOGICAL_RESULT	BIO_GROUP_ID
Bio Result Group Type	FA_BIOLOGICAL_RESULT	BIO_GROUP_TYPE
Bio Result Group Subj Txn	FA_BIOLOGICAL_RESULT	BIO_GROUP_SUBJECT_TXN
Bio Result Group Desc	FA_BIOLOGICAL_RESULT	BIO_GROUP_DESCRIPTION

Column Title	Table Name	Column Name
Feeding Group	FA_BIOLOGICAL_RESULT	FEEDING_GROUP
Pollution Tolerance	FA_BIOLOGICAL_RESULT	POLLUTION_TOLERANCE
Trophic Level	FA_BIOLOGICAL_RESULT	TROPHIC_LEVEL
Habit	FA_BIOLOGICAL_RESULT	HABIT
Voltinism	FA_BIOLOGICAL_RESULT	VOLTINISM
Cell Shape	FA_BIOLOGICAL_RESULT	CELL_SHAPE
Cell Form	FA_BIOLOGICAL_RESULT	CELL_FORM
Number in Group	FA_BIOLOGICAL_RESULT	NUMBER_IN_GROUP
Group Count Type	FA_BIOLOGICAL_RESULT	BIO_GROUP_COUNT_TYPE
Phys/Bio Ind	FA_BIOLOGICAL_RESULT	PHYS_BIO_INDICATOR
Bio Result Group ID (sex)	FA_BIOLOGICAL_RESULT	GROUP_DESC_SEX
Bio Result Group ID (lifestage)	FA_BIOLOGICAL_RESULT	GROUP_DESC_LIFESTAGE
Bio Result Group Class Var	FA_BIOLOGICAL_RESULT	COMMON_CLASS_DESC
Class Prim Desc	FA_BIOLOGICAL_RESULT	PRIMARY_CLASS_DESC
Class Sec Desc	FA_BIOLOGICAL_RESULT	SECONDARY_CLASS_DESC
Class Upper Bound	FA_BIOLOGICAL_RESULT	LOWER_BOUND_AMOUNT
Class Lower Bound	FA_BIOLOGICAL_RESULT	UPPER_BOUND_AMOUNT
Units	FA_BIOLOGICAL_RESULT	BIO_RCI_UNITS
Number in Group	FA_BIOLOGICAL_RESULT	NUMBER_IN_GROUP
Bio Individual Number	FA_BIOLOGICAL_RESULT	INDIVIDUAL_NUMBER

For Habitat Results:

Column Title	Table Name	Column Name
Org ID	FA_HABITAT_RESULT	ORGANIZATION_ID
Org Name	DI_ORG	ORGANIZATION_NAME
Station ID	FA_HABITAT_RESULT	STATION_ID
Station Name	FA_HABITAT_RESULT	STATION_NAME

Column Title	Table Name	Column Name
Station Latitude	FA_HABITAT_RESULT	STN_LATITUDE
Station Longitude	FA_HABITAT_RESULT	STN_LONGITUDE
State Name	DI_GEO_STATE	STATE_NAME
County Name	DI_GEO_COUNTY	COUNTY_NAME
HUC	FA_HABITAT_RESULT	HYDROLOGIC_UNIT_CODE
S/G/O Indicator	FA_HABITAT_RESULT	SGO_INDICATOR
Visit Num	FA_HABITAT_RESULT	STATION_VISIT_ID
Visit Start	FA_HABITAT_RESULT	VISIT_START_DATE_TIME
	FA_HABITAT_RESULT	VISIT_START_TIME_ZONE
Visit Stop	FA_HABITAT_RESULT	VISIT_STOP_DATE_TIME
	FA_HABITAT_RESULT	VISIT_STOP_TIME_ZONE
Trip ID	FA_HABITAT_RESULT	TRIP_ID
Trip Name	FA_HABITAT_RESULT	TRIP_NAME
Activity ID	FA_HABITAT_RESULT	ACTIVITY_ID
Activity Start	FA_HABITAT_RESULT	ACTIVITY_START_DATE_TIME
	FA_HABITAT_RESULT	ACT_START_TIME_ZONE
Activity Stop	FA_HABITAT_RESULT	ACTIVITY_STOP_DATE_TIME
	FA_HABITAT_RESULT	ACT_STOP_TIME_ZONE
Activity Type	FA_HABITAT_RESULT	ACTIVITY_TYPE
Field Set	FA_HABITAT_RESULT	FIELD_SET
Actual Location Point Type	FA_HABITAT_RESULT	LOCATION_POINT_TYPE
Actual Point Sequence Num	FA_HABITAT_RESULT	POINT_SEQUENCE_NUMBER
Actual Point Name	FA_HABITAT_RESULT	POINT_NAME
Actual Activity Latitude	FA_HABITAT_RESULT	ACTIVITY_LATITUDE
Actual Activity Longitude	FA_HABITAT_RESULT	ACTIVITY_LONGITUDE
Well Number	FA_HABITAT_RESULT	WELL_NUMBER
Pipe Number	FA_HABITAT_RESULT	PIPE_NUMBER

Column Title	Table Name	Column Name
Geopositioning Method	LU_MAD_HMETHOD	GEOPOSITIONING_METHOD
Horizontal Datum	LU_MAD_HDATUM	HORIZONTAL_DATUM
Map Scale	FA_HABITAT_RESULT	MAP_SCALE
Characteristic Name	FA_HABITAT_RESULT	CHARACTERISTIC_NAME
Habitat Class Name	FA_HABITAT_RESULT	HABITAT_CLASS_NAME
EPA Registry Num	FA_HABITAT_RESULT	EPA_REG_NUMBER
Sample Fraction	FA_HABITAT_RESULT	SAMPLE_FRACTION_TYPE
Value Type	FA_HABITAT_RESULT	RESULT_VALUE_TYPE
Statistic Type	FA_HABITAT_RESULT	STATISTIC_TYPE
Result Value as Text	FA_HABITAT_RESULT	RESULT_VALUE_TEXT
Result Value as Number	FA_HABITAT_RESULT	RESULT_VALUE
Units	FA_HABITAT_RESULT	RESULT_UNIT
Result Comment	FA_HABITAT_RESULT	RESULT_COMMENT
Result Free Text	FA_HABITAT_RESULT	TEXT_RESULT
Weight Basis	FA_HABITAT_RESULT	WEIGHT_BASIS_TYPE
Temperature Basis	FA_HABITAT_RESULT	TEMPERATURE_BASIS_LEVEL
Duration Basis	FA_HABITAT_RESULT	DURATION_BASIS
Distance Measured From	FA_HABITAT_RESULT	DISTANCE_MEASURE_FROM
Distance Measured To	FA_HABITAT_RESULT	DISTANCE_MEASURE_TO
Analytical Proc ID	FA_HABITAT_RESULT	ANALYTICAL_PROC_SOURCE
	FA_HABITAT_RESULT	ANALYTICAL_PROCEDURE_ID
Detection Limit	FA_HABITAT_RESULT	DETECTION_LIMIT
Detection Limit Descript	FA_HABITAT_RESULT	DETECTION_LIMIT_DESCRIPTION
Lower Quantification Limit	FA_HABITAT_RESULT	LOWER_QUANTITATION_LIMIT
Upper Quantification Limit	FA_HABITAT_RESULT	UPPER_QUANTITATION_LIMIT
Lab Remark	FA_HABITAT_RESULT	LAB_REMARK
Dilution Ind	FA_HABITAT_RESULT	DILUTION_INDICATOR

Column Title	Table Name	Column Name
Recovery Ind	FA_HABITAT_RESULT	RECOVERY_INDICATOR
Correction Ind	FA_HABITAT_RESULT	CORRECTION_INDICATOR
Lab ID	FA_HABITAT_RESULT	LAB_ID
Lab Name	FA_HABITAT_RESULT	LAB_NAME
Lab Cert	FA_HABITAT_RESULT	LAB_CERTIFIED
Lab Batch ID	FA_HABITAT_RESULT	LAB_BATCH_ID
Analysis Date	FA_HABITAT_RESULT	ANALYSIS_DATE_TIME
	FA_HABITAT_RESULT	ANALYSIS_TIME_ZONE
Num of Reps	FA_HABITAT_RESULT	REPLICATE_ANALYSIS_COUNT
Precision	FA_HABITAT_RESULT	PRECISION
Bias	FA_HABITAT_RESULT	BIAS
Conf Level	FA_HABITAT_RESULT	CONFIDENCE_LEVEL
Correction for Bias Ind	FA_HABITAT_RESULT	CONF_LVL_CORR_BIAS

Error Handling:

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

STORET
Data Warehouse Web Page Development Specification Package

SIR: 1446

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Result_Hub_Custom

Web Page Name: Download Results

Date: 3/2/2003

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 8/29/2003

Processing Overview/Description:

The DW_Result_Hub_Custom procedure serves as a gatekeeper that generates the page header and footer, then passes control to the DW_Result_Download_Custom procedure and passes the required parameters to create a report. See the Web Page Development Specification for DW_Result_Download_Custom for a description of the report format.

Tables:

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

None.

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Count	Result Search Summary	<Continue>

Input Parameters:

Natural Language	Parameter
The From clause of the SQL statement that will be used for selecting Results.	V_FROMSTMT
The Where clause of the SQL statement that will be used for selecting Results.	V_WHERESTMT
The number of results matching the search criteria.	V_RESULTCOUNT
A Pl/Sql table of selected Columns for the report (Column Name List).	V_COLUMNS
Indicates whether RULE BASED query optimization should be employed (this is for performance tuning).	V_RULE_OPTIMIZATION
Identifies the type of report the user wishes to generate. At this point in time the only valid option is 'CUSTOM,' but additional reports may be added in the future.	REPORT_TYPE
The file name used for report generation [This is passed from the report generating procedure (DW_RESULT_DOWNLOAD_CUSTOM) back to this procedure after the report is complete.]	OUT_FILE
The type of Result Report being generated (Regular, Biological, or Habitat).	V_REPORT_TYPE

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Download_Custom	Download Result Description	Called automatically when page is loaded.

Output Parameters:

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

A Pl/Sql table of selected Columns for the report (Column Name List).	V_COLUMNS
Used to pass a file name to the report generating procedure (DW_RESULT_DOWNLOAD_CUSTOM). This is set to 'NONE' for non-batched reports.	FILENAME
Indicates whether RULE BASED query optimization should be employed (this is for performance tuning).	V_RULE_OPTIMIZATION
The type of Result Report being generated (Regular, Biological, or Habitat).	V_REPORT_TYPE

Internal Procedure Events:

Onload

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

General

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

Images:

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.

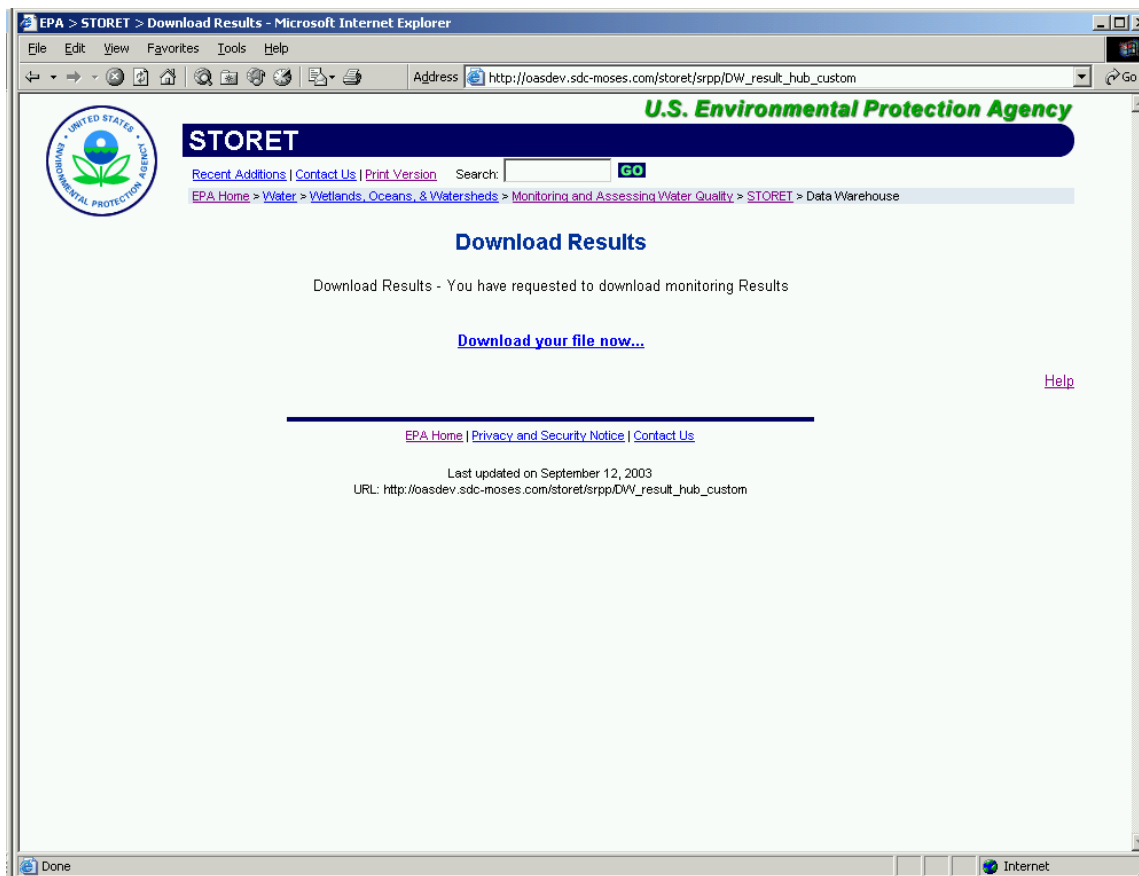
Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.

Code Changes:

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

Page Print:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1363, 1364, 1365, 1366, 1367, 1369, 1475

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Criteria (DW_Selection_Criteria)

Web Page Name: Station Search Criteria

Date: 10/28/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 08/29/2003

Processing Overview/Description:

The Station Search Criteria page 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
	PK_ISN	N
	SORT_ORDER	N
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	Y

Entity	Attribute	Display
	SECONDARY_TYPE	Y
	PK_ISN	N
	SORT_ORDER	N
Organization (DI_ORG)	ORGANIZATION_ID	Y
	ORGANIZATION_NAME	Y
	PK_ISN	N

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET: Central Warehouse	Stations by Geographic Location

Input Parameters:

These parameters are passed from the three Popup (DW_County_Popup, DW_HUC_Popup, and DW_Char_Popup) windows back to this procedure.

Natural Language	Parameter
The names of the selected County(s) in a comma separated string. By default this value is 'ALL'.	AS_COUNTY
The codes of the selected County(s) in a comma separated string. By default this value is 'ALL'.	V_COUNTY_CODE
The Hydrologic Unit Code value. By default this value is 'ALL'.	AS_HUC
The names of the selected Characteristic(s) in a string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
A Pl/Sql table of selected Characteristics (Characteristic Key List). By default this value is 'DUMMY'.	CHAR_LIST

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

Natural Language	Parameter
A Pl/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 Pl/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 Pl/Sql table of selected Organizations (Organization Key List).	D_ORG_LIST

Internal Procedure Events:

Onload

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

Geographic Location Section

- 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) text area with the Counties that the user selects from the pop-up window.
- 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

- ‘Search’ onclick: Display a pop-up window showing the characteristics that match the search string and Characteristic Naming Convention entered by the user. The user may choose to hide or display taxonomic name characteristics by selecting the checkbox next to the search string textbox. 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. No more than 50 Characteristics can be added to the Selected Characteristics list.
- ‘Clear Selected’ onclick: All selected characteristics are removed from the characteristic select list.
- ‘Clear All’ onclick: All characteristics are removed from the characteristic select list.

Form Level

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

General

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

Images:

The only images used on the STORET Data Warehouse web site are those that are included in the EPA Standard Web Template.

Business Rules:

- Only taxonomic characteristics that have been recorded will be displayed.
- Characteristics can not be added to the Selected Characteristics list more than once (even if the same Characteristic is selected multiple times using different naming conventions).
- The user may add no more than 50 Characteristics to the Selected Characteristics list. The attempted addition of Characteristics in excess of this limit are blocked and an alert is displayed.
- Only Organizations with Stations will be displayed.

- 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.
- If the user selects 'All' State/Counties, every station is included in the search regardless of geographic location.
- If the user selects 'All' HUCs, every station is included in the search regardless of geographic location.
- If the user selects defaults latitude/longitude values (i.e., N=90, S=0, E=0, W=180), every station is included in the search regardless of geographic location.
- If a list of Station Types is selected that includes 'Select All', all Station Types are included in the search.
- If a list of Organizations is selected that includes 'Select All', all Organizations are included in the search.

Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- The user will not be allowed to enter non-numeric characters in the latitude/longitude fields.
- 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:

First half of Page:

The screenshot shows the EPA STORET web application in a Microsoft Internet Explorer browser window. The address bar shows the URL: http://oasdev.sdc-moses.com/storet/srpp/DW_stationcriteria. The page header includes the EPA logo and the text "U.S. Environmental Protection Agency". Below the header is a navigation bar with links: [Recent Additions](#), [Contact Us](#), [Print Version](#), and a search bar with a "GO" button. The main title is "STORET". Below the title is a breadcrumb trail: [EPA Home](#) > [Water](#) > [Wetlands, Oceans, & Watersheds](#) > [Monitoring and Assessing Water Quality](#) > [STORET](#) > [Data Warehouse](#). The main heading is "Stations by Geographic Location".

Geographic Location

Select a single type of location search that you wish to perform (state/county, latitude/longitude, or HUC). Then enter the corresponding search criteria.

☒ State/County

State Name: County Name:

☐ Latitude/Longitude (in decimal degrees)

West Limit: North Limit: East Limit: South Limit:

☐ Drainage Basin/HUC

Cataloging Unit:

Station Type

Select one or more Station Type(s)

PRIMARY TYPE	SECONDARY TYPE
Select All	
River/Stream	None
Lake	None
Great Lake	None
Well	None
Facility	Industrial
Facility	Municipal Sewage (POTW)
Facility	Municipal Water Supply (PWS)
Facility	Other/combined
Facility	Privately Owned non-industrial

Second Half of Page:

EPA > STORET > Stations by Geographic Location - Microsoft Internet Explorer

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

Characteristic

Find Stations with at least one reported value of the selected Characteristics
Use the Characteristic Search to create a list of up to 50 Characteristics

Characteristic Search **Characteristic Alias Type**
 STORET DEFAULT

☒ Hide Taxonomic Names

Characteristic Name

Organization

Select one or more Organization(s)

ORG ID	ORGANIZATION NAME
Select All	
11113300	New Hampshire Dept. of Environmental Services
1111REG1	USEPA, Region I
11117MER	US EPA Region 7
11119USBR	Bureau of Reclamation
11DELMOB	Delaware River Basin Commission
2111UVOVR	WV Div of Environmental Protection, Office of Water Resource
21ARIZ	Arizona Department of Environmental Quality
21ARIZGW	Arizona Department of Environmental Quality
21COL001	Colorado Dept. of Public Health & Environment

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_stationcriteria

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1371, 1501

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station Count

Web Page Name: Station Search Summary

Date: 10/31/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 8/29/2003

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 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. If a report exceeds the permitted number of Stations (currently set at 40,000), the user is told that they must refine their query and is unable to generate a report. If there are no Stations for a report, the user is told that they must refine their query and is unable to generate a report.

Tables:

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

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	PK_ISN	N
Station (FA_STATION)	LATITUDE	Y

Entity	Attribute	Display
	LONGITUDE	Y
	PK_ISN	N
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_STATN_TYPES	N
	FK_FA_STATN	N
	FK_ORG	N
HUC Code	HYDROLOGIC_UNIT_CODE	Y
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	Y
	SECONDARY_TYPE	Y
	PK_ISN	N
Characteristic (STATION_CHAR)	FK_CHAR	N
Organization (DI_ORG)	ORGANIZATION_ID	Y
	PK_ISN	N
APP_COLUMN_NAME	ELEMENT_NAME	Y
	STN_REPORT_NUMBER	N
	STN_ELEMENT_DEFAULT	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

Natural Language	Parameter
The internal sequence number 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 Pl/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 string separated by HTML break tags (). By default this value is NULL.	V_CHAR_NAMES
The search string used to identify available Characteristics. By default this value is NULL.	AS_CHAR
A Pl/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 Pl/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	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
The Number of Stations meeting the selection criteria.	V_STATIONCOUNT
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

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

Custom Report Section

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

Form Level

- '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) and the list of columns that the user has selected for their report.
- '<<Back' onclick: Return to the Station Selection Criteria page.

General

- See DW_Top_of_Page Specifications for standard header and sidebar links on each page.
- 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:

- Only display location information for the geographic search option that has been selected (State/County, Latitude/Longitude, or HUC).
- Always display the Station Types that have been selected. Display 'All' if the user has selected 'Select All' from the Station Type list.
- 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.
- Always display the Organizations that have been selected. Display 'All' if the user has selected 'All' from the Organization list.

Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.
- An alert is displayed if the user attempts to generate a report without having at least one report element selected.
- Enforces report size restrictions as directed by the TOPO, which is currently 40,000 Stations.

Code Changes:

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


Page Print:

First half of Page:

EPA > STORET > Station Search Summary - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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

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Station Search Summary

Number of Stations Returned: 11

Search Parameter Values

North Limit: 90 NORTH

South Limit: 45 NORTH

East Limit: 0 WEST

West Limit: 180 WEST

Station Type(s): Well-None
Facility-Industrial
Facility-Municipal Sewage (POTW)
Facility-Municipal Water Supply (PWS)
Facility-Other/combined

Characteristic(s): ALL

Organization(s): 11113300
1111REG1
1117MBR
1119USBR
11DELMO

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 Data Elements below.

Select Data Elements for Report

Second half of page

EPA > STORET > Station Search Summary - Microsoft Internet Explorer

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

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 Data Elements below.

<<Back Continue>>

Select Data Elements for Report

<input checked="" type="checkbox"/> Org ID	<input type="checkbox"/> Lat/Long Info
<input checked="" type="checkbox"/> Station ID	<input type="checkbox"/> Elevation (w/ Units)
<input checked="" type="checkbox"/> Station Name	<input type="checkbox"/> Additional Elevation Info
<input type="checkbox"/> Org Name	<input type="checkbox"/> Country Name
<input checked="" type="checkbox"/> Primary Type	<input checked="" type="checkbox"/> State
<input type="checkbox"/> Secondary Type	<input checked="" type="checkbox"/> County
<input type="checkbox"/> S/G/O Indicator	<input type="checkbox"/> Hydrologic Unit Code
<input type="checkbox"/> Well Number	<input type="checkbox"/> Hydrologic Unit Name
<input type="checkbox"/> Well Name	<input type="checkbox"/> RF1 Info
<input type="checkbox"/> Pipe Number	<input type="checkbox"/> NRCS Watershed ID
<input type="checkbox"/> NAICS Code	<input type="checkbox"/> Estuary Info
<input type="checkbox"/> Spring Info	<input type="checkbox"/> Great Lake Name
<input type="checkbox"/> Location Point Type	<input type="checkbox"/> Ocean Name
<input type="checkbox"/> Point Sequence Number	<input type="checkbox"/> Natv American Land Name
<input type="checkbox"/> Point Name	<input type="checkbox"/> FRS Key Identifier
<input checked="" type="checkbox"/> Latitude/Longitude	<input type="checkbox"/> Station Document/Graphic Name

Select All Clear All Restore Defaults

<<Back Continue>>

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Last updated on September 12, 2003
URL: http://oasdev.sdc-moses.com/storet/srpp/DW_STATION_COUNT

Internet

A-DW_Station Count-8

STORET

Data Warehouse Web Page Development Specification Package

SIR: 1370, 1501, 1507

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Download_Custom

Web Page Name: None.

Date: 11/4/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 8/12/2003

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 may be included in user generated reports. See Business Rules section for display order)

Entity	Attribute	Display
HUC Code (DI_DB_CAT)	HYDROLOGIC_UNIT_NAME	Y
Station Types (DI_STATN_TYPES)	PRIMARY_TYPE	Y
	SECONDARY_TYPE	Y
Organization (DI_ORG)	ORGANIZATION_NAME	Y

Entity	Attribute	Display
State (DI_GEO_STATE)	STATE_NAME	Y
	COUNTRY_NAME	Y
County (DI_GEO_COUNTY)	COUNTY_NAME	Y
Station (FA_STATION)	ORGANIZATION_ID	Y
	STATION_ID	Y
	STATION_NAME	Y
	SGO_INDICATOR	Y
	WELL_NUMBER	Y
	WELL_NAME	Y
	PIPE_NUMBER	Y
	NAICS_CODE	Y
	SPRING_TYPE_IMPROVEMENT	Y
	SPRING_PERMANENCE	Y
	SPRING_USGS_GEOLOGIC_UNIT	Y
	SPRING_OTHER_NAME	Y
	SPRING_USGS_LITHOLOGIC_UNIT	Y
	LOCATION_POINT_TYPE	Y
	POINT_SEQUENCE_NUMBER	Y
	POINT_NAME	Y
	LATITUDE	Y
	LONGITUDE	Y
	MAP_SCALE	Y
	ELEVATION	Y
	HYDROLOGIC_UNIT_CODE	Y
	RF1_SEGMENT_CODE	Y
	RF1_SEGMENT_NAME	Y

Entity	Attribute	Display
	RF1_MILEAGE	Y
	ON_REACH_IND	Y
	NRCS_WATERSHED_ID	Y
	OTHER_ESTUARY_NAME	Y
	GREAT_LAKE_NAME	Y
	OCEAN_NAME	Y
	NATV_AMERICAN_LAND_NAME	Y
	FRS_KEY_IDENTIFIER	Y
	BLOB_TITLE	Y
	FK_DB_CAT	N
	FK_GEO_STATE	N
	FK_GEO_COUNTY	N
	FK_MAD_HMETHOD	N
	FK_MAD_HDATUM	N
	FK_MAD_VMETHOD	N
	FK_MAD_VDATUM	N
	FK_ORG	N
	FK_STATN_TYPES	N
	FK_ESTRY_PRIMARY	N
	FK_ESTRY_SECONDARY	N
Horizontal Datum (LU_MAD_HDATUM)	HORIZONTAL_DATUM	Y
Horizontal Method (LU_MAD_HMETHOD)	GEOPOSITIONING_METHOD	Y
Vertical Datum (LU_MAD_VDATUM)	ELEVATION_DATUM	Y
Vertical Method (LU_MAD_VMETHOD)	ELEVATION_METHOD	Y
Primary Estuary (LU_ESTRY_PRIMARY)	PRIMARY_ESTUARY	Y

Entity	Attribute	Display
Secondary Estuary (LU_ESTRY_SECONDARY)	SECONDARY_ESTUARY	Y
Column Names (APP_COLUMN_NAME)	COL_NAME	N
	PRINT_NAME	N
	STN_REPORT_NUMBER	N
	STN_COL_ORDER	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 Pl/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

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

Images:

None.

Business Rules:

- 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.
- Display only the columns that correspond to the list of selected report elements.
- Separate all report columns with the tilde sign ('~').
- Do not return the name of the report file created until report generation has completed.
- Display report columns in the order listed below.
- Include all location point types in station reports.

Column Title	Table Name	Column Name
Org ID	FA_STATION	ORGANIZATION_ID
Station ID	FA_STATION	STATION_ID
Station Name	FA_STATION	STATION_NAME
Org Name	DI_ORG	ORGANIZATION_NAME
Primary Type	DI_STATN_TYPES	PRIMARY_TYPE
Secondary Type	DI_STATN_TYPES	SECONDARY_TYPE
S/G/O Indicator	FA_STATION	SGO_INDICATOR

Column Title	Table Name	Column Name
Well Number	FA_STATION	WELL_NUMBER
Well Name	FA_STATION	WELL_NAME
Pipe Number	FA_STATION	PIPE_NUMBER
NAICS Code	FA_STATION	NAICS_CODE
Spring Type Improvement	FA_STATION	SPRING_TYPE_IMPROVEMENT
Permanence	FA_STATION	SPRING_PERMANENCE
USGS Geologic Unit Code-Name	FA_STATION	SPRING_USGS_GEOLOGIC_UNIT
Spring Other Name	FA_STATION	SPRING_OTHER_NAME
USGS Lithologic Unit Code-Name	FA_STATION	SPRING_USGS_LITHOLOGIC_UNIT
Location Point Type	FA_STATION	LOCATION_POINT_TYPE
Point Sequence Number	FA_STATION	POINT_SEQUENCE_NUMBER
Point Name	FA_STATION	POINT_NAME
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 Name	DI_GEO_STATE	COUNTRY_NAME
State	DI_GEO_STATE	STATE_NAME
County	DI_GEO_COUNTY	COUNTY_NAME
Hydrologic Unit Code	FA_STATION	HYDROLOGIC_UNIT_CODE
Hydrologic Unit Name	DI_DB_CAT	HYDROLOGIC_UNIT_NAME
RF1 Segment Code	FA_STATION	RF1_SEGMENT_CODE
RF1 Segment Name	FA_STATION	RF1_SEGMENT_NAME

Column Title	Table Name	Column Name
RF1 Mileage	FA_STATION	RF1_MILEAGE
On Reach Ind	FA_STATION	ON_REACH_IND
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
Station Document/Graphic Name	FA_STATION	BLOB_TITLE

Error Handling:

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

Date: 11/4/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 09/03/2003

Process Overview/Description:

The DW_Station_Hub_Custom procedure serves as a gatekeeper that generates the page header and footer, then passes control to the procedure DW_Station_Download_Custom with the required parameters.

Tables:

(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
The number of Stations that fulfilled the selection criteria.	V_STATIONCOUNT
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
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_Download_Custom	Download Site Description	Called automatically when page is loaded.

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

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

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

If View Station List is Selected

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

General

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

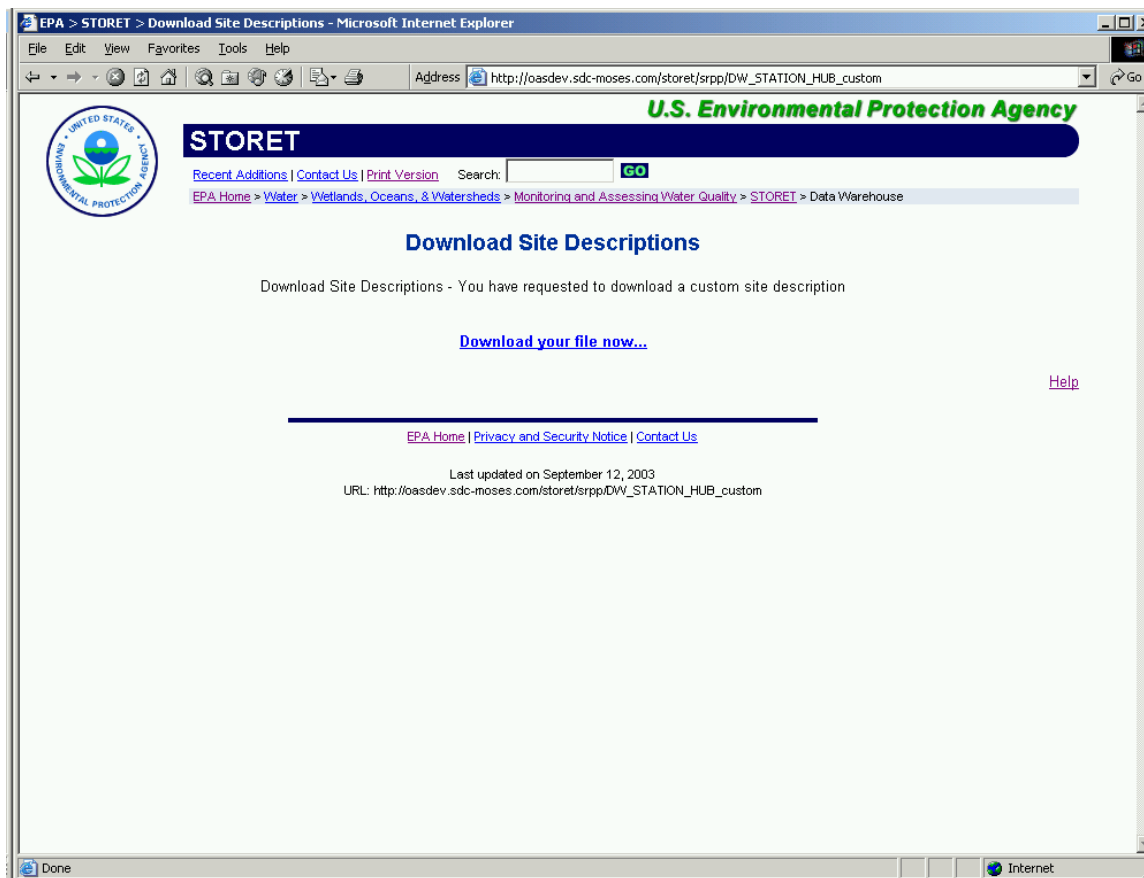
Error Handling:

- A standard Error Page should be displayed when this page is not loaded upon request.

Code Changes:

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

Page Print:



STORET

Data Warehouse Web Page Development Specification Package

SIR: 1438, 1489

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Station_Popup

Web Page Name: STORET: Station Search Results

Date: 4/16/2003

Completed By: William Nash

Specification Last Modified By: Joseph Wilson 08/29/2003

Processing Overview/Description:

The Station Search Results pop-up is called by the Result by Station pages and is used to display a list of available Stations for the selected Organization that conform to the user's search string. The user is able to select one or more Stations from this list. The Station ID and the Station Name of the selected Stations are passed to the calling Result by Station page where the appropriate fields are populated.

Tables:

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

Entity	Attribute	Display
Station (FA_STATION)	ORGANIZATION_ID	Y
	STATION_ID	Y
	PK_ISN	N
	LOCATION_POINT_TYPE	N
	FK_ORG	N

Entity	Attribute	Display
Station Alias Type (LU_EXTERNAL_REF_SCHEME)	REF_SCHEME_ACRONYM	Y
	PK_ISN	N
	ORGANIZATION_ID	N
Station Alias (LU_STATION_ALIAS)	STATION_LABEL	Y
	FK_STATION	N
	FK_REF_SCHEME	N
Station(FA_STATION)	STATION_NAME	Y

Links From:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Station	Regular Results by Station	<Look Up>
DW_Bio_Result_Criteria_Station	Biological Results by Station	<Look Up>
DW_Hab_Result_Criteria_Station	Habitat Results by Station	<Look Up>

Input Parameters:

Natural Language	Parameter
The text string used to search available Stations.	V_STATIONSTRING
The Organization number that uniquely identifies the selected Organization.	V_ORG
The code indicating whether to search for Stations by Station ID, Name, or Label.	V_SEARCHTYPE
The Station Alias Type used in the search for Station.	V_EXTREF

Links To:

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Station	Regular Results by Station	<Look Up>
DW_Bio_Result_Criteria_Station	Biological Results by Station	<Look Up>
DW_Hab_Result_Criteria_Station	Habitat Results by Station	<Look Up>

Output Parameters:

Natural Language	Parameter
A PL/SQL table of selected Stations.	STATION_LIST
The names of the selected Station(s) in a string separated by an HTML break.	V_STATION_NAMES

Internal Procedure Events:

Onload

- Populate the select list with the Stations that conform to the Station Search Criteria.

Form Level

- ‘Select’ onclick: Populate the Selected Stations list on the calling Results by Station page with the Organization IDs, Station IDs, Alias Type, Station Alias, and Station names that the user selects from this pop-up window. If Stations were previously added, insert the new Stations at the end of the existing Selected Stations list.
- ‘Cancel’ onclick: Close this pop-up window and return focus to the calling Results by Station page. Do not alter the value of the Selected Stations list.

Images:

None.

Business Rules:

- Only display Stations for the selected Organization.
- Allow multiple Stations to be selected.
- If 'Search by Station Alias' is selected and Station Alias Type is 'STANDARD', then Stations will be searched by Station ID.
- If a Station is selected multiple times, include it only once on the calling Results by Station page.

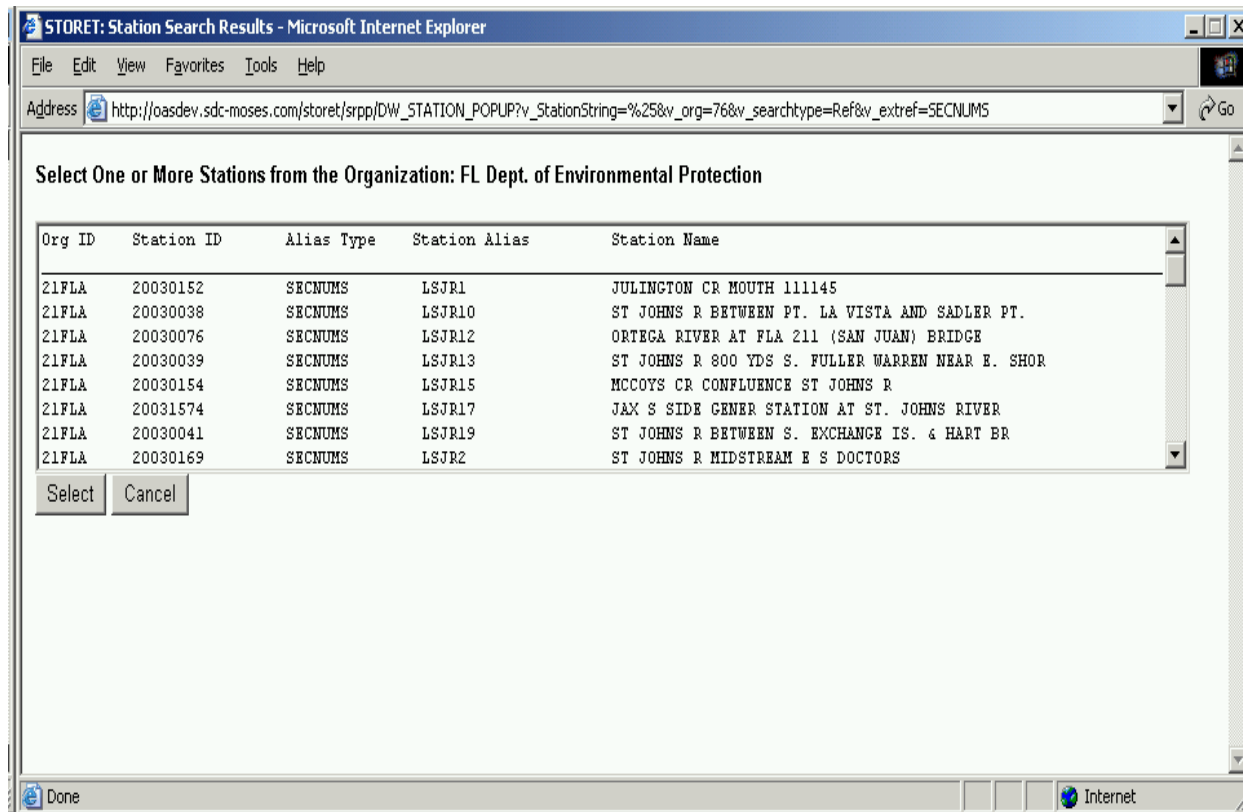
Error Handling:

- A standard Error Page should be displayed when this page does not load upon request.
- Only valid Organization IDs, Station IDs, Station Alias Types, Station Aliases, and Station names are returned to the Results by Station page. If Search by ID or Search by Name is selected, then 'N/A' is used to indicate that the Station Alias Types and Station Aliases are not applicable.

Code Changes:

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

Page Print:



STORET

Data Warehouse Web Page Development Specification Package

SIR: Global

Package Name: SDW (STORET Data Warehouse)

Procedure Name: DW_Top_of_Page

Web Page Name: EPA standard web template header

Date: 11/27/2002

Completed By: Joseph Wilson

Specification Last Modified By: Joseph Wilson 08/29/2003

Process Overview/Description:

The DW_top_of_page procedure is used to create the standard header used by all pages of the Central Warehouse application. This header provides a search engine for the EPA web site and several links. The search engine parameters and links used by this procedure mirror those of the STORET homepage.

In addition, this procedure establishes the link to the JavaScript library used by the application and calls any JavaScript functions that should be executed at the time a page is loaded.

Tables:

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

None.

Links From:

Procedure	Web_Page	Button/Text
DW_Home	STORET Central Warehouse	onLoad

Procedure	Web_Page	Button/Text
DW_Result_Criteria_Geo	Regular Results by Geographic Location	onLoad
DW_Result_Criteria_Station	Regular Results by Station	onLoad
DW_Result_Criteria_Project	Regular Results by Project	onLoad
DW_Result_Count	Result Search Summary	onLoad
DW_Result_Hub_Custom	Download Results	onLoad
DW_Station_Criteria	Station Search Criteria	onLoad
DW_Station_Count	Station Search Summary	onLoad
DW_Station_Hub_Custom	View Station List/Download Report	onLoad
DW_Bio_Result_Criteria_Geo	Biological Results by Geographic Location	onLoad
DW_Bio_Result_Criteria_Station	Biological Results by Station	onLoad
DW_Bio_Result_Criteria_Project	Biological Results by Project	onLoad
DW_Hab_Result_Criteria_Geo	Habitat Results by Geographic Location	onLoad
DW_Hab_Result_Criteria_Station	Habitat Results by Station	onLoad
DW_Hab_Result_Criteria_Project	Habitat Results by Project	onLoad

Input Parameters:

Natural Language	Parameter
The title of the Web Page calling the procedure.	PAGE_TITLE
A list of JavaScript functions that should be ran at the time the Web Page is loaded.	BODY_ON_LOAD

Links To:

URL	Web_Page	Hyperlink Text
http://www.epa.gov/storet/whats_new.html	STORET recent additions page	'Recent Additions'
http://www.epa.gov/storet/contact.html	STORET contact us page	'Contact Us'

http://www.epa.gov/cgi-bin/epaprintonly.cgi	Returns authorization message	'Print Version'
http://www.epa.gov/	EPA home page	'EPA Home'
http://www.epa.gov/water/	OW home page	'Water'
http://www.epa.gov/owow/	OWOW home page	'Wetlands, Oceans, & Watersheds'
http://www.epa.gov/owow/monitoring/	OWOW's Monitoring and Assessing Water Quality page	'Monitoring and Assessing Water Quality'
http://www.epa.gov/storet/index.html	STORET home page	'STORET'

Output Parameters:

Natural Language	Parameter
script_path	The path of the application's JavaScript library file.
program_path	The path of the Oracle application server.
image_path	The path containing the application's image files.

Internal Procedure Events:

Onload

- Display the appropriate page Title.
- Call the requested JavaScript functions.

Images:

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:

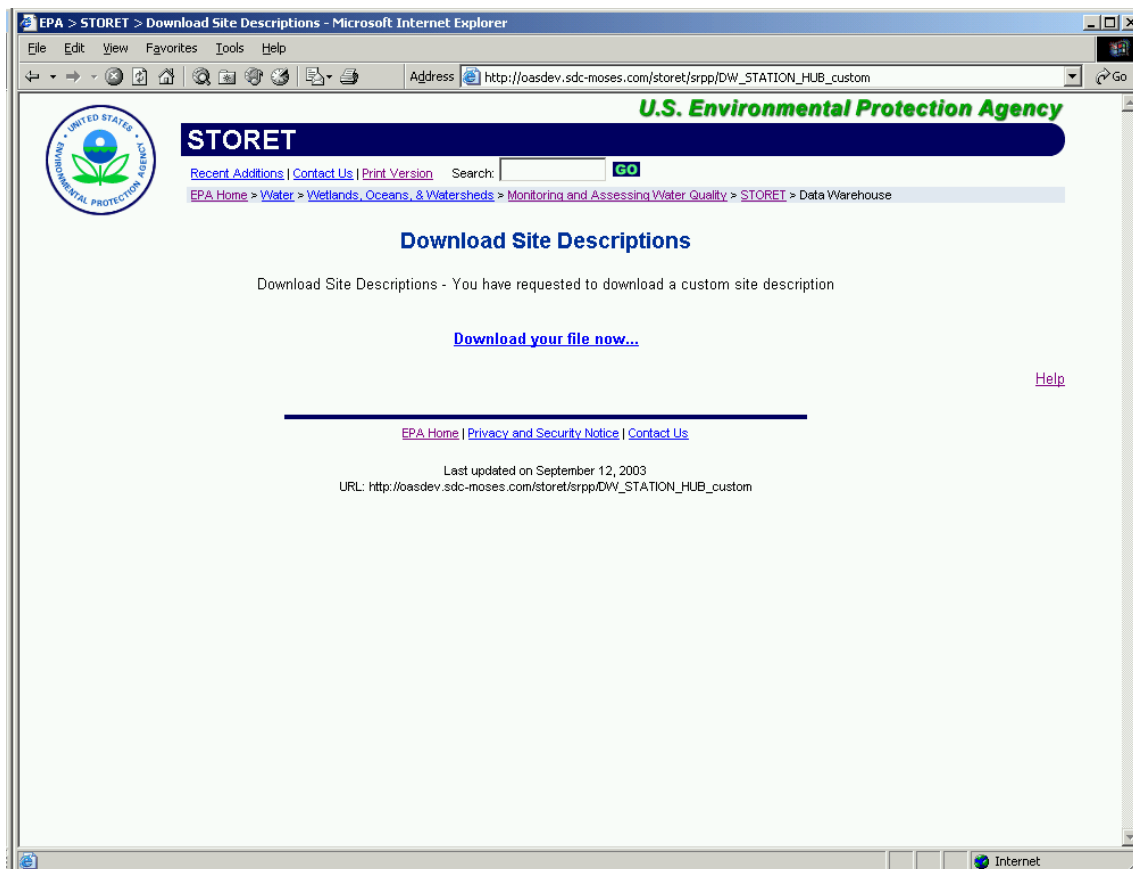
- See specifications for the Web pages that call this procedure.

Code Changes:

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

Page Print:

The DW_top_of_page procedure produces the standard header found at the top of the Central Warehouse's web pages.



APPENDIX B

Column Mappings

Biological Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Org ID	Org ID	FA BIOLOGICAL RESULT	ORGANIZATION_ID	CHAR(8)	TSMORGAN	ORG_ID	CHAR(8)
Org Name	Org Name	DI ORG	ORGANIZATION_NAME	VARCHAR2(60)	TSMORGAN	NAME	VARCHAR2(60)
Station ID	Station ID	FA BIOLOGICAL RESULT	STATION_ID	CHAR(15)	TSMSTATN	IDENTIFICATION_CD	CHAR(15)
Station Name	Station Name	FA BIOLOGICAL RESULT	STATION_NAME	VARCHAR2(60)	TSMSTATN	NAME	VARCHAR2(60)
Station Location Info	Station Latitude	FA BIOLOGICAL RESULT	STN_LATITUDE	NUMBER	TSMALP	LAT_DEC_DEG_MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Station Location Info	Station Longitude	FA BIOLOGICAL RESULT	STN_LONGITUDE	NUMBER	TSMALP	LONG_DEC_DEG_MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Station Location Info	State Name	DI GEO_STATE	STATE_NAME	VARCHAR2(21)	TSMGEOPA	STATE_NAME	VARCHAR2(21)
Station Location Info	County Name	DI GEO_COUNTY	COUNTY_NAME	VARCHAR2(25)	TSMGEOPA	COUNTY_NAME	VARCHAR2(25)
Station Location Info	HUC	FA BIOLOGICAL RESULT	HYDROLOGIC_UNIT_CODE	CHAR(8)	STORET.TSMFHU	HYDROLOGIC_UNIT_CD	CHAR(8)
S/G/O Indicator	S/G/O Indicator	FA BIOLOGICAL RESULT	SGO_INDICATOR	CHAR(1)			
Visit Num	Visit Num	FA BIOLOGICAL RESULT	STATION_VISIT_ID	CHAR(3)	TSRSTVST	ID_NUMBER	CHAR(3)
Visit Start	Visit Start	FA BIOLOGICAL RESULT	VISIT_START_DATE_TIME	DATE	TSRSTVST	ARRIVAL_DATE	DATE
					TSRSTVST	ARRIVAL_TIME	DATE
					TSRSTVST	ARRIVAL_TIME_ZONE	CHAR(3)
		FA BIOLOGICAL RESULT	VISIT_START_TIME_ZONE	CHAR(3)	TSRSTVST	ARRIVAL_TIME_ZONE	CHAR(3)
Visit Stop	Visit Stop	FA BIOLOGICAL RESULT	VISIT_STOP_DATE_TIME	DATE	TSRSTVST	DEPARTURE_DATE	DATE
					TSRSTVST	DEPARTURE_TIME	DATE
					TSRSTVST	DEPRTURE_TIME_ZONE	CHAR(3)
Trip ID	Trip ID	FA BIOLOGICAL RESULT	TRIP_ID	CHAR(15)	TSRTRIP	ID_CODE	CHAR(15)
Trip Name	Trip Name	FA BIOLOGICAL RESULT	TRIP_NAME	VARCHAR2(60)	TSRTRIP	NAME	VARCHAR2(60)
Activity ID	Activity ID	FA BIOLOGICAL RESULT	ACTIVITY_ID	CHAR(12)	TSRFDACT	ID_CODE	CHAR(12)
Activity Start	Activity Start	FA BIOLOGICAL RESULT	ACTIVITY_START_DATE_TIME	DATE	TSRFDACT	START_DATE	DATE
					TSRFDACT	START_TIME	DATE
		FA BIOLOGICAL RESULT	ACT_START_TIME_ZONE	CHAR(3)	TSRFDACT	START_TIME_ZONE	CHAR(3)
Activity Stop	Activity Stop	FA BIOLOGICAL RESULT	ACTIVITY_STOP_DATE_TIME	DATE	TSRFDACT	STOP_DATE	DATE
					TSRFDACT	STOP_TIME	DATE
		FA BIOLOGICAL RESULT	ACT_STOP_TIME_ZONE	CHAR(3)	TSRFDACT	STOP_TIME_ZONE	CHAR(3)
Activity Medium	Activity Medium	FA BIOLOGICAL RESULT	ACTIVITY_MEDIUM	VARCHAR2(20)	TSRFDACT	MEDIUM_TYPE_NAME	VARCHAR2(20)
Activity Type	Activity Type	FA BIOLOGICAL RESULT	ACTIVITY_TYPE	CHAR(13)	TSRFDACT	TYPE_NAME	CHAR(13)
Activity Category-Rep Num	Activity Category-Rep Num	FA BIOLOGICAL RESULT	ACTIVITY_CATEGORY	VARCHAR2(30)	TSRFDACT	CATEGORY_TYPE_NAME	VARCHAR2(30)
		FA BIOLOGICAL RESULT	REPLICATE_NUMBER	NUMBER(3)	TSRFDACT	REPLICATE_NUMBER	NUMBER(3)
Activity Intent	Activity Intent	FA BIOLOGICAL RESULT	ACTIVITY_INTENT	VARCHAR2(20)	TSRFDACT	INTENT_TYPE_NAME	VARCHAR2(20)
Community Sampled	Community Sampled	FA BIOLOGICAL RESULT	ACTIVITY_COMMUNITY	VARCHAR2(30)	TSRFDACT	COMMUNITY_NAME	VARCHAR2(30)
Subject Taxon	Subject Taxon	FA BIOLOGICAL RESULT	ACTIVITY_SUBJECT_TAXON	VARCHAR2(69)	STORET.TSRCHAR	DISPLAY_NAME	VARCHAR2(60)
					TSRFDACT	SPECIES_NUMBER	CHAR(8)
Biopart	Biopart	FA BIOLOGICAL RESULT	BIOPART_NAME	VARCHAR2(30)	STORET.TSRBIOPT	NAME	VARCHAR2(30)
Field Set	Field Set	FA BIOLOGICAL RESULT	FIELD_SET	VARCHAR2(130)	TSRFDSET	NAME	VARCHAR2(30)
Actual Point Type	Actual Location Point Type	FA BIOLOGICAL RESULT	LOCATION_POINT_TYPE	CHAR(16)	TSMALP	TYPE_CODE	CHAR(16)
Actual Point Sequence	Actual Point Sequence Num	FA BIOLOGICAL RESULT	POINT_SEQUENCE_NUMBER	NUMBER	TSMALP	SEQUENCE_NUMBER	NUMBER(4)
Actual Point Name	Actual Point Name	FA BIOLOGICAL RESULT	POINT_NAME	VARCHAR2(30)	TSMALP	POINT_NAME	VARCHAR2(30)
Actual Activity Latitude	Actual Activity Latitude	FA BIOLOGICAL RESULT	ACTIVITY_LATITUDE	NUMBER	TSMALP	LAT_DEC_DEG_MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Actual Activity Longitude	Actual Activity Longitude	FA BIOLOGICAL RESULT	ACTIVITY_LONGITUDE	NUMBER	TSMALP	LONG_DEC_DEG_MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Well Number	Well Number	FA BIOLOGICAL RESULT	WELL_NUMBER	CHAR(15)	TSMWELL	ID_NUMBER	CHAR(15)
Pipe Number	Pipe Number	FA BIOLOGICAL RESULT	PIPE_NUMBER	CHAR(15)	TSMPIPE	ID_NUMBER	CHAR(15)
Additional Act Location Info	Geopositioning Method	LU MAD_HMETHOD	GEOPOSITIONING_METHOD	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Additional Act Location Info	Horizontal Datum	LU MAD_HDATUM	HORIZONTAL_DATUM	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Additional Act Location Info	Map Scale	FA BIOLOGICAL RESULT	MAP_SCALE	VARCHAR2(20)	TSMALP	GEOPSTNG_SCALE_TXT	VARCHAR2(20)
Activity Depth	Activity Depth	FA BIOLOGICAL RESULT	ACTIVITY_DEPTH	CHAR(8)	TSRFDACT	DEPTH_TO_ACTIVITY	CHAR(8)
Activity Depth Unit	Activity Depth Unit	FA BIOLOGICAL RESULT	ACTIVITY_DEPTH_UNIT	CHAR(3)	TSRFDACT	DEPTH_TO_ACT_UN_CD	CHAR(3)

B-Biological Result Report Column Mapping-1

Biological Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Activity Upper Depth	Activity Upper Depth	FA BIOLOGICAL RESULT	ACTIVITY UPPER DEPTH	CHAR(8)	TSRFDACT	UPPER DEPTH TO ACT	CHAR(8)
Activity Rel Depth	Activity Rel Depth	FA BIOLOGICAL RESULT	ACTIVITY REL DEPTH	CHAR(15)	TSRFDACT	RELTV DEPTH NAME	CHAR(15)
Activity Lower Depth	Activity Lower Depth	FA BIOLOGICAL RESULT	ACTIVITY LOWER DEPTH	CHAR(8)	TSRFDACT	LOWER DEPTH TO ACT	CHAR(8)
Upr Lwr Depth Unit	Upr Lwr Depth Unit	FA BIOLOGICAL RESULT	UPR LWR DEPTH UNIT	CHAR(3)	TSRFDACT	DEPTH MSR UNT CD	CHAR(3)
Sample Collection ID	Sample Collection ID	FA BIOLOGICAL RESULT	FIELD PROCEDURE ID	CHAR(10)	TSRFLDPR	ID CODE	CHAR(10)
Field Gear ID	Field Gear ID	FA BIOLOGICAL RESULT	FIELD GEAR ID	CHAR(10)	TSRFLDGR	ID CODE	CHAR(10)
Field Gear Config ID	Field Gear Config ID	FA BIOLOGICAL RESULT	GEAR CONFIG ID	CHAR(10)	TSRGRCFG	ID CODE	CHAR(10)
Sample Preservation	Container Desc	FA BIOLOGICAL RESULT	CONTAINER DESC	VARCHAR2(60)	TSRSMPL	CONTAINER TYPE NM	VARCHAR2(32)
					TSRSMPL	CONTAINER COLOR	VARCHAR2(10)
					TSRSMPL	CONTAINER SIZE MSR	NUMBER(6,2)
					TSRSMPL	CONTAINER SIZE UN	CHAR(3)
Sample Preservation	Temp Pres Type	FA BIOLOGICAL RESULT	TEMP PRESERVN TYPE	VARCHAR2(25)	TSRSMPL	TEMP PRESERVN TYPE	VARCHAR2(25)
Sample Preservation	Pres Storage Proc	FA BIOLOGICAL RESULT	PRESRV STRGE PRCDR	VARCHAR2(256)	TSRSMPL	PRESRV STRGE PRCDR	VARCHAR2(1999)
Characteristic Name	Characteristic Name	FA BIOLOGICAL RESULT	CHARACTERISTIC NAME	VARCHAR2(91)	STORET.TSRCHAR	DISPLAY NAME	VARCHAR2(60)
CAS Num	CAS Num	FA BIOLOGICAL RESULT	CAS NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
EPA Registry Num	EPA Registry Num	FA BIOLOGICAL RESULT	EPA REG NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
ITIS Number	ITIS Num	FA BIOLOGICAL RESULT	ITIS NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
Sample Fraction	Sample Fraction	FA BIOLOGICAL RESULT	SAMPLE FRACTION TYPE	VARCHAR2(15)	TSRRSULT	SMPL FRAC TYPE NM	VARCHAR2(15)
Value Type	Value Type	FA BIOLOGICAL RESULT	RESULT VALUE TYPE	CHAR(10)	TSRRSULT	VALUE TYPE NAME	CHAR(10)
Statistic Type	Statistic Type	FA BIOLOGICAL RESULT	STATISTIC TYPE	CHAR(18)	TSRRSULT	STATISTIC TYPE NM	CHAR(18)
Result Value as Text	Result Value as Text	FA BIOLOGICAL RESULT	RESULT VALUE TEXT	CHAR(15)	TSRRSULT	VALUE TEXT	CHAR(15)
Result Value as Number	Result Value as Number	FA BIOLOGICAL RESULT	RESULT VALUE	NUMBER	TSRRSULT	VALUE MEASURE	NUMBER(13,5)
Units	Units	FA BIOLOGICAL RESULT	RESULT UNIT	CHAR(10)	STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
	Result Std Value	FA BIOLOGICAL RESULT	<<NULL>>				
	Result Std Unit	FA BIOLOGICAL RESULT	<<NULL>>				
Result Comment	Result Comment	FA BIOLOGICAL RESULT	RESULT COMMENT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Result Free Text	Result Free Text	FA BIOLOGICAL RESULT	TEXT RESULT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Weight Basis	Weight Basis	FA BIOLOGICAL RESULT	WEIGHT BASIS TYPE	CHAR(12)	TSRRSULT	WT BASIS TYPE NM	CHAR(12)
Temperature Basis	Temperature Basis	FA BIOLOGICAL RESULT	TEMPERATURE BASIS LEVEL	CHAR(8)	TSRRSULT	TEMP BASIS LVL NM	CHAR(8)
Duration Basis	Duration Basis	FA BIOLOGICAL RESULT	DURATION BASIS	CHAR(10)	TSRRSULT	DUR BASIS TYPE NM	CHAR(10)
Particle Size Basis	Particle Size Basis	FA BIOLOGICAL RESULT	PARTICLE SIZE	VARCHAR2(40)	TSRRCI	PARTICLE SIZE BASIS	VARCHAR2(40)
Distance Measured From	Distance Measured From	FA BIOLOGICAL RESULT	DISTANCE MEASURE FROM	VARCHAR2(20)	TSRRSULT	REF PT FROM NAME	VARCHAR2(20)
Distance Measured To	Distance Measured To	FA BIOLOGICAL RESULT	DISTANCE MEASURE TO	VARCHAR2(20)	TSRRSULT	REF PT TO NAME	VARCHAR2(20)
Analytical Proc. ID (w/ acronym)	Analytical Proc ID	FA BIOLOGICAL RESULT	ANALYTICAL PROCEDURE SOURCE	CHAR(12)	TSRANLPR	SOURCE ACR	CHAR(12)
		FA BIOLOGICAL RESULT	ANALYTICAL PROCEDURE ID	CHAR(15)	TSRANLPR	PROCEDURE ID	CHAR(15)
Additional Anal Proc Info	Detection Limit	FA BIOLOGICAL RESULT	DETECTION LIMIT	VARCHAR2(25)+E37	TSRDQL	MIN DETECT LIMIT	CHAR(12)
					STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
Additional Anal Proc Info	Detection Limit Descript	FA BIOLOGICAL RESULT	DETECTION LIMIT DESCRIPTION	VARCHAR2(254)	TSRDQL	DESCRIPTION TEXT	VARCHAR2(254)
Additional Anal Proc Info	Lower Quantification Limit	FA BIOLOGICAL RESULT	LOWER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MIN QUANT LIMIT	CHAR(12)
Additional Anal Proc Info	Upper Quantification Limit	FA BIOLOGICAL RESULT	UPPER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MAX QUANT LIMIT	CHAR(12)
Lab Remark	Lab Remark	FA BIOLOGICAL RESULT	LAB REMARK	VARCHAR2(40)	STORET.TSRLBRMK	SHORT NAME	CHAR(6)
Dilution Ind	Dilution Ind	FA BIOLOGICAL RESULT	DILUTION INDICATOR	CHAR(1)	TSRRSULT	DILUTION IND CODE	CHAR(1)
Recovery Ind	Recovery Ind	FA BIOLOGICAL RESULT	RECOVERY INDICATOR	CHAR(1)	TSRRSULT	RECOVERY IND CODE	CHAR(1)
Correction Ind	Correction Ind	FA BIOLOGICAL RESULT	CORRECTION INDICATOR	CHAR(1)	TSRRSULT	CORRECTION IND CD	CHAR(1)
Other Lab Info	Lab ID	FA BIOLOGICAL RESULT	LAB ID	CHAR(8)	TSRLAB	ID CODE	CHAR(8)
Other Lab Info	Lab Name	FA BIOLOGICAL RESULT	LAB NAME	VARCHAR2(60)	TSRLAB	NAME	VARCHAR2(60)
Other Lab Info	Lab Cert	FA BIOLOGICAL RESULT	LAB CERTIFIED	CHAR(1)	TSRRSULT	LAB CERT IND CODE	CHAR(1)
Other Lab Info	Lab Batch ID	FA BIOLOGICAL RESULT	LAB BATCH ID	CHAR(12)	TSRRSULT	LAB BATCH ID CODE	CHAR(12)
Other Lab Info	Analysis Date	FA BIOLOGICAL RESULT	ANALYSIS DATE TIME	DATE	TSRRSULT	ANALYSIS DATE	DATE
					TSRRSULT	ANALYSIS TIME	DATE
		FA BIOLOGICAL RESULT	ANALYSIS TIME ZONE	CHAR(3)	TSRRSULT	ANALYSIS TIME ZONE	CHAR(3)
Num of Reps	Num of Reps	FA BIOLOGICAL RESULT	REPLICATE ANALYSIS COUNT	NUMBER	TSRRSULT	REPL ANALYSIS NUM	NUMBER(2)
Precision	Precision	FA BIOLOGICAL RESULT	PRECISION	CHAR(12)	TSRRSULT	PRECISION AMT TXT	CHAR(12)
Bias	Bias	FA BIOLOGICAL RESULT	BIAS	CHAR(12)	TSRRSULT	BIAS	CHAR(12)
Conf Level	Conf Level	FA BIOLOGICAL RESULT	CONFIDENCE LEVEL	CHAR(8)	TSRRSULT	CONF LVL PCT MSR	CHAR(8)
Correction for Bias Ind	Correction for Bias Ind	FA BIOLOGICAL RESULT	CONF LVL CORR BIAS	CHAR(1)	TSRRSULT	CONF LVL CORR BIAS	CHAR(1)

B-Biological Result Report Column Mapping-2

Biological Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Net Tow Info	Trawl Start Point Name	FA BIOLOGICAL RESULT	TR_START_POINT_NAME	VARCHAR2(30)	TSMALP	POINT_NAME	VARCHAR2(30)
Net Tow Info	Trawl Start Latitude	FA BIOLOGICAL RESULT	TR_START_LATITUDE	NUMBER	TSMALP	LAT DEC DEG MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Net Tow Info	Trawl Start Longitude	FA BIOLOGICAL RESULT	TR_START_LONGITUDE	NUMBER	TSMALP	LONG DEC DEG MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Net Tow Info	Trawl Start Depth	FA BIOLOGICAL RESULT	TR_START_DEPTH	CHAR(15)	TSRAAL	BOTTOM_DEPTH MSR	CHAR(8)
					TSRAAL	BOTTOM_DEPTH UN_CD	CHAR(3)
Net Tow Info	Trawl Stop Point Name	FA BIOLOGICAL RESULT	TR_STOP_POINT_NAME	VARCHAR2(30)	TSMALP	POINT_NAME	VARCHAR2(30)
Net Tow Info	Trawl Stop Latitude	FA BIOLOGICAL RESULT	TR_STOP_LATITUDE	NUMBER	TSMALP	LAT DEC DEG MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Net Tow Info	Trawl Stop Longitude	FA BIOLOGICAL RESULT	TR_STOP_LONGITUDE	NUMBER	TSMALP	LONG DEC DEG MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Net Tow Info	Trawl Stop Depth	FA BIOLOGICAL RESULT	TR_STOP_DEPTH	CHAR(15)	TSRAAL	BOTTOM_DEPTH MSR	CHAR(8)
					TSRAAL	BOTTOM_DEPTH UN_CD	CHAR(3)
Net Tow Info	Fished Duration Measure	FA BIOLOGICAL RESULT	FISHED_DURATION	CHAR(15)	TSRTOD	FISHED DURATN MSR	NUMBER(4,2)
					TSRTOD	FISHD DURTN UN CD	CHAR(10)
Net Tow Info	Boat Speed	FA BIOLOGICAL RESULT	BOAT_SPEED	CHAR(15)	TSRTOD	BOAT_SPEED MSR	NUMBER(3,1)
					TSRTOD	BOAT_SPEED UN_CD	CHAR(10)
Net Tow Info	Fished Distance	FA BIOLOGICAL RESULT	FISHED_DISTANCE	CHAR(10)	TSRTOD	FISHED_DISTANCE	NUMBER(5,2)
					TSRTOD	FISHED_DISTANCE UN	CHAR(3)
Net Tow Info	Rel Current Dir	FA BIOLOGICAL RESULT	REL_CURRENT_DIR	NUMBER(3)	TSRTOD	REL_CURRENT_DIR	NUMBER(3)
Net Tow Info	Rel Wind Dir	FA BIOLOGICAL RESULT	REL_WIND_DIR	NUMBER(3)	TSRTOD	REL_WIND_DIR	NUMBER(3)
Net Tow Info	Trawl Comment	FA BIOLOGICAL RESULT	TRAWL_COMMENT	VARCHAR2(254)	TSRTOD	COMMENT TEXT	VARCHAR2(254)
Electroshow Info	Voltage Measure	FA BIOLOGICAL RESULT	VOLTAGE_MEASURE	NUMBER(6,3)	TSREOD	VOLTAGE_MEASURE	NUMBER(6,3)
Electroshow Info	Current Type Code	FA BIOLOGICAL RESULT	CURRENT_TYPE_CODE	CHAR(2)	TSREOD	CURRENT_TYPE_CODE	CHAR(2)
Electroshow Info	Amperage Measure	FA BIOLOGICAL RESULT	AMPERAGE_MEASURE	NUMBER(6,3)	TSREOD	AMPERAGE_MEASURE	NUMBER(6,3)
Electroshow Info	Pass Count	FA BIOLOGICAL RESULT	PASS_COUNT	NUMBER(2)	TSREOD	PASS_COUNT	NUMBER(2)
Electroshow Info	Pass Length Measure	FA BIOLOGICAL RESULT	PASS_LENGTH	CHAR(10)	TSREOD	PASS_LENGTH MSR	NUMBER(5)
					TSREOD	PASS_LENGTH UN_CD	CHAR(3)
Electroshow Info	Pulse Rate Measure	FA BIOLOGICAL RESULT	PULSE_RATE	NUMBER(3)	TSREOD	PULSE_RATE MSR	NUMBER(3)
Electroshow Info	Electroshock Comment	FA BIOLOGICAL RESULT	ELECTROSHOCK_COMMENT	VARCHAR2(254)	TSREOD	COMMENT TEXT	VARCHAR2(254)
Electroshow Info	Total Energzd Time	FA BIOLOGICAL RESULT	TOTAL_ENERGZD_TIME	CHAR(15)	TSREOD	TOTAL_ENERGZD_TIME	NUMBER(3)
					TSREOD	ENERGZD_TIME UNITS	CHAR(10)
Net Non-Two Info	Sampling Duration	FA BIOLOGICAL RESULT	SAMPLING_DURATION	CHAR(15)	TSRTNOD	SMPLNG DURATN MSR	NUMBER(4,2)
					TSRTNOD	SMPLNG DRTN UN CD	CHAR(10)
Net Non-Two Info	Orientation to Current	FA BIOLOGICAL RESULT	ORIENTATION_TO_CURRENT	CHAR(15)	TSRTNOD	ORIENTN TO CURRENT	CHAR(15)
Net Non-Two Info	Rel Current Dir	FA BIOLOGICAL RESULT	REL_CURRENT_DIR	NUMBER(3)	TSRTNOD	REL_CURRENT_DIR	NUMBER(3)
Net Non-Two Info	Rel Wind Dir	FA BIOLOGICAL RESULT	REL_WIND_DIR	NUMBER(3)	TSRTNOD	REL_WIND_DIR	NUMBER(3)
Net Non-Two Info	Trap Net Comment	FA BIOLOGICAL RESULT	TRAP_NET_COMMENT	VARCHAR2(254)	TSRTNOD	COMMENT TEXT	VARCHAR2(254)
General Group Info	Bio Result Group ID	FA BIOLOGICAL RESULT	BIO_GROUP_ID	CHAR(8)	TSRBRG	ID CODE	CHAR(8)
General Group Info	Bio Result Group Type	FA BIOLOGICAL RESULT	BIO_GROUP_TYPE	VARCHAR2(32)	TSRBRG	TYPE NAME	VARCHAR2(32)
General Group Info	Bio Result Group Subj Txn	FA BIOLOGICAL RESULT	BIO_GROUP_SUBJECT_TXN	VARCHAR2(69)	STORET.TSRCHAR	DISPLAY NAME	VARCHAR2(60)
					TSRBRG	SPECIES_NUMBER	CHAR(8)
General Group Info	Bio Result Group Desc	FA BIOLOGICAL RESULT	BIO_GROUP_DESCRIPTION	VARCHAR2(1999)	TSRBRG	DESCRIPTION TEXT	VARCHAR2(1999)
Multi-Taxon Pop. Census Info	Feeding Group	FA BIOLOGICAL RESULT	FEEDING_GROUP	CHAR(6)	TSRRSULT	FNCTIONAL FEED GRP	CHAR(6)
Multi-Taxon Pop. Census Info	Pollution Tolerance	FA BIOLOGICAL RESULT	POLLUTION_TOLERANCE	CHAR(4)	TSRRSULT	TAXON POLLUTION	CHAR(4)
Multi-Taxon Pop. Census Info	Trophic Level	FA BIOLOGICAL RESULT	TROPHIC_LEVEL	CHAR(4)	TSRRSULT	TROPHIC_LEVEL	CHAR(4)
Multi-Taxon Pop. Census Info	Habit	FA BIOLOGICAL RESULT	HABIT	VARCHAR2(40)	STORET.TSMPRMVL	FIELD VALUE	VARCHAR2(40)
Multi-Taxon Pop. Census Info	Voltinism	FA BIOLOGICAL RESULT	VOLTINISM	VARCHAR2(40)	STORET.TSMPRMVL	FIELD VALUE	VARCHAR2(40)
Multi-Taxon Pop. Census Info	Cell Shape	FA BIOLOGICAL RESULT	CELL_SHAPE	VARCHAR2(18)	TSRCLDES	CELL_SHAPE TYPE NM	VARCHAR2(18)
Multi-Taxon Pop. Census Info	Cell Form	FA BIOLOGICAL RESULT	CELL_FORM	VARCHAR2(11)	TSRCLDES	CELL_TYPE NM	VARCHAR2(11)
Single Taxon Group Summary Info	Number in Group	FA BIOLOGICAL RESULT	NUMBER_IN_GROUP	NUMBER	TSRBRG	SUMMARY_GRP_COUNT	NUMBER(8)

B-Biological Result Report Column Mapping-3

Biological Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Single Taxon Group Summary Info	Group Count Type	FA BIOLOGICAL RESULT	BIO GROUP COUNT TYPE	CHAR(10)	TSRBRG	VALUE TYPE NAME	CHAR(10)
Single Taxon Frequency Class Info	Phys/Bio Ind	FA BIOLOGICAL RESULT	PHYS BIO INDICATOR	CHAR(1)	TSRBRG	TYPE INDICATOR	CHAR(1)
Single Taxon Frequency Class Info	Bio Result Group ID (sex)	FA BIOLOGICAL RESULT	GROUP DESC SEX	CHAR(15)	TSRBRG	SEX NAME	CHAR(15)
Single Taxon Frequency Class Info	Bio Result Group ID (lifestage)	FA BIOLOGICAL RESULT	GROUP DESC LIFESTAGE	VARCHAR2(25)	TSRBRG	LIFE STAGE NAME	VARCHAR2(25)
Single Taxon Frequency Class Info	Bio Result Group Class Var	FA BIOLOGICAL RESULT	COMMON CLASS DESC	VARCHAR2(62)	TSRBRG	TYPE INDICATOR	CHAR(1)
					STORET.TSRCHAR	DISPLAY NAME	VARCHAR2(60)
Single Taxon Frequency Class Info	Class Prim Desc	FA BIOLOGICAL RESULT	PRIMARY CLASS DESC	CHAR(12)	TSRRCI	PRIM CLASS DESC	CHAR(12)
Single Taxon Frequency Class Info	Class Sec Desc	FA BIOLOGICAL RESULT	SECONDARY CLASS DESC	CHAR(12)	TSRRCI	SEC CLASS DESC	CHAR(12)
Single Taxon Frequency Class Info	Class Upper Bound	FA BIOLOGICAL RESULT	LOWER BOUND AMOUNT	NUMBER	TSRRCI	LOWER BND AMT	NUMBER(7,2)
Single Taxon Frequency Class Info	Class Lower Bound	FA BIOLOGICAL RESULT	UPPER BOUND AMOUNT	NUMBER	TSRRCI	UPPER BND AMT	NUMBER(7,2)
Single Taxon Frequency Class Info	Units	FA BIOLOGICAL RESULT	BIO RCI UNITS	CHAR(10)	STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
Single Taxon Individual Info	Number in Group	FA BIOLOGICAL RESULT	NUMBER IN GROUP	NUMBER	TSRBRG	SUMMARY GRP COUNT	NUMBER(8)
Single Taxon Individual Info	Bio Individual Number	FA BIOLOGICAL RESULT	INDIVIDUAL NUMBER	NUMBER	TSRBRGI	INDIVIDUAL NUMBER	NUMBER(8)

Habitat Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Org ID	Org ID	FA HABITAT RESULT	ORGANIZATION ID	CHAR(8)	TSMORGAN	ORG ID	CHAR(8)
Org Name	Org Name	DI ORG	ORGANIZATION_NAME	VARCHAR2(60)	TSMORGAN	NAME	VARCHAR2(60)
Station ID	Station ID	FA HABITAT RESULT	STATION ID	CHAR(15)	TSMSTATN	IDENTIFICATION CD	CHAR(15)
Station Name	Station Name	FA HABITAT RESULT	STATION NAME	VARCHAR2(60)	TSMSTATN	NAME	VARCHAR2(60)
Station Location Info	Station Latitude	FA HABITAT RESULT	STN LATITUDE	NUMBER	TSMALP	LAT DEC DEG MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Station Location Info	Station Longitude	FA HABITAT RESULT	STN LONGITUDE	NUMBER	TSMALP	LONG DEC DEG MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Station Location Info	State Name	DI GEO STATE	STATE NAME	VARCHAR2(21)	TSMGEOPA	STATE NAME	VARCHAR2(21)
Station Location Info	County Name	DI GEO COUNTY	COUNTY NAME	VARCHAR2(25)	TSMGEOPA	COUNTY NAME	VARCHAR2(25)
Station Location Info	HUC	FA HABITAT RESULT	HYDROLOGIC UNIT CODE	CHAR(8)	STORET.TSMFHU	HYDROLOGIC UNIT CD	CHAR(8)
S/G/O Indicator	S/G/O Indicator	FA HABITAT RESULT	SGO INDICATOR	CHAR(1)			
Visit Num	Visit Num	FA HABITAT RESULT	STATION VISIT ID	CHAR(3)	TSRSTVST	ID NUMBER	CHAR(3)
Visit Start	Visit Start	FA HABITAT RESULT	VISIT START DATE TIME	DATE	TSRSTVST	ARRIVAL DATE	DATE
					TSRSTVST	ARRIVAL TIME	DATE
		FA HABITAT RESULT	VISIT START TIME ZONE	CHAR(3)	TSRSTVST	ARRIVAL TIME ZONE	CHAR(3)
Visit Stop	Visit Stop	FA HABITAT RESULT	VISIT STOP DATE TIME	DATE	TSRSTVST	DEPARTURE DATE	DATE
					TSRSTVST	DEPARTURE TIME	DATE
		FA HABITAT RESULT	VISIT STOP TIME ZONE	CHAR(3)	TSRSTVST	DEPRTURE TIME ZONE	CHAR(3)
Trip ID	Trip ID	FA HABITAT RESULT	TRIP ID	CHAR(15)	TSRTRIP	ID CODE	CHAR(15)
Trip Name	Trip Name	FA HABITAT RESULT	TRIP NAME	VARCHAR2(60)	TSRTRIP	NAME	VARCHAR2(60)
Activity ID	Activity ID	FA HABITAT RESULT	ACTIVITY ID	CHAR(12)	TSRFDACT	ID CODE	CHAR(12)
Activity Start	Activity Start	FA HABITAT RESULT	ACTIVITY START DATE TIME	DATE	TSRFDACT	START DATE	DATE
					TSRFDACT	START TIME	DATE
		FA HABITAT RESULT	ACT START TIME ZONE	CHAR(3)	TSRFDACT	START TIME ZONE	CHAR(3)
Activity Stop	Activity Stop	FA HABITAT RESULT	ACTIVITY STOP DATE TIME	DATE	TSRFDACT	STOP DATE	DATE
					TSRFDACT	STOP TIME	DATE
		FA HABITAT RESULT	ACT STOP TIME ZONE	CHAR(3)	TSRFDACT	STOP TIME ZONE	CHAR(3)
Activity Type	Activity Type	FA HABITAT RESULT	ACTIVITY TYPE	CHAR(13)	TSRFDACT	TYPE NAME	CHAR(13)
Field Set	Field Set	FA HABITAT RESULT	FIELD SET	VARCHAR2(130)	TSRFDSET	NAME	VARCHAR2(30)
Actual Point Type	Actual Location Point Type	FA HABITAT RESULT	LOCATION POINT TYPE	CHAR(16)	TSMALP	TYPE CODE	CHAR(16)
Actual Point Sequence	Actual Point Sequence Num	FA HABITAT RESULT	POINT SEQUENCE NUMBER	NUMBER(5)	TSMALP	SEQUENCE NUMBER	NUMBER(4)
Actual Point Name	Actual Point Name	FA HABITAT RESULT	POINT NAME	VARCHAR2(30)	TSMALP	POINT NAME	VARCHAR2(30)
Actual Activity Latitude	Actual Activity Latitude	FA HABITAT RESULT	ACTIVITY LATITUDE	NUMBER	TSMALP	LAT DEC DEG MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Actual Activity Longitude	Actual Activity Longitude	FA HABITAT RESULT	ACTIVITY LONGITUDE	NUMBER	TSMALP	LONG DEC DEG MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Well Number	Well Number	FA HABITAT RESULT	WELL NUMBER	CHAR(15)	TSMWELL	ID NUMBER	CHAR(15)
Pipe Number	Pipe Number	FA HABITAT RESULT	PIPE NUMBER	CHAR(15)	TSMPIPE	ID NUMBER	CHAR(15)
Additional Act Location Inf	Geopositioning Method	LU MAD HMETHOD	GEOPOSITIONING METHOD	VARCHAR2(254)	STORET.TSMMD	DESCRIPTION	VARCHAR2(254)
Additional Act Location Inf	Horizontal Datum	LU MAD HDATUM	HORIZONTAL DATUM	VARCHAR2(254)	STORET.TSMMD	DESCRIPTION	VARCHAR2(254)
Additional Act Location Inf	Map Scale	FA HABITAT RESULT	MAP SCALE	VARCHAR2(20)	TSMALP	GEOPTNG SCALE TXT	VARCHAR2(20)
Characteristic Name	Characteristic Name	FA HABITAT RESULT	CHARACTERISTIC NAME	VARCHAR2(60)	STORET.TSRCHAR	DISPLAY NAME	VARCHAR2(60)
					TSRHSC	CHARACTERSTC NAME	VARCHAR2(30)
Habitat Class Name	Habitat Class Name	FA HABITAT RESULT	HABITAT CLASS NAME	VARCHAR2(30)	TSRCHGRP	NAME	VARCHAR2(30)
EPA Registry Num	EPA Registry Num	FA HABITAT RESULT	EPA REG NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
Sample Fraction	Sample Fraction	FA HABITAT RESULT	SAMPLE FRACTION TYPE	VARCHAR2(15)	TSRRSULT	SMPL FRAC TYPE NM	VARCHAR2(15)

B-Habitat Result Report Column Mapping-1

Habitat Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Value Type	Value Type	FA HABITAT RESULT	RESULT VALUE TYPE	CHAR(10)	TSRRSULT	VALUE TYPE NAME	CHAR(10)
Statistic Type	Statistic Type	FA HABITAT RESULT	STATISTIC TYPE	CHAR(18)	TSRRSULT	STATISTIC TYPE NM	CHAR(18)
Result Value as Text	Result Value as Text	FA HABITAT RESULT	RESULT VALUE TEXT	CHAR(15)	TSRRSULT	VALUE TEXT	CHAR(15)
Result Value as Number	Result Value as Number	FA HABITAT RESULT	RESULT VALUE	NUMBER	TSRRSULT	VALUE MEASURE	NUMBER(13,5)
Units	Units	FA HABITAT RESULT	RESULT UNIT	CHAR(10)	STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
	Result Std Value	FA HABITAT RESULT	<<NULL>>				
	Result Std Unit	FA HABITAT RESULT	<<NULL>>				
Result Comment	Result Comment	FA HABITAT RESULT	RESULT COMMENT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Result Free Text	Result Free Text	FA HABITAT RESULT	TEXT RESULT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Weight Basis	Weight Basis	FA HABITAT RESULT	WEIGHT BASIS TYPE	CHAR(12)	TSRRSULT	WT BASIS TYPE NM	CHAR(12)
Temperature Basis	Temperature Basis	FA HABITAT RESULT	TEMPERATURE BASIS LEVEL	CHAR(8)	TSRRSULT	TEMP BASIS LVL NM	CHAR(8)
Duration Basis	Duration Basis	FA HABITAT RESULT	DURATION BASIS	CHAR(10)	TSRRSULT	DUR BASIS TYPE NM	CHAR(10)
Distance Measured From	Distance Measured From	FA HABITAT RESULT	DISTANCE MEASURE FROM	VARCHAR2(20)	TSRRSULT	REF PT FROM NAME	VARCHAR2(20)
Distance Measured To	Distance Measured To	FA HABITAT RESULT	DISTANCE MEASURE TO	VARCHAR2(20)	TSRRSULT	REF PT TO NAME	VARCHAR2(20)
Analytical Proc. ID (w/ acronym)	Analytical Proc ID	FA HABITAT RESULT	ANALYTICAL PROCEDURE SOURCE	CHAR(12)	TSRANLPR	SOURCE ACR	CHAR(12)
		FA HABITAT RESULT	ANALYTICAL PROCEDURE ID	CHAR(15)	TSRANLPR	PROCEDURE ID	CHAR(15)
Additional Anal Proc Info	Detection Limit	FA HABITAT RESULT	DETECTION LIMIT	VARCHAR2(25)	TSRDQL	MIN DETECT LIMIT	CHAR(12)
					STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
Additional Anal Proc Info	Detection Limit Descript	FA HABITAT RESULT	DETECTION LIMIT DESCRIPTION	VARCHAR2(254)	TSRDQL	DESCRIPTION TEXT	VARCHAR2(254)
Additional Anal Proc Info	Lower Quantification Limi	FA HABITAT RESULT	LOWER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MIN QUANT LIMIT	CHAR(12)
Additional Anal Proc Info	Upper Quantification Limi	FA HABITAT RESULT	UPPER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MAX QUANT LIMIT	CHAR(12)
Lab Remark	Lab Remark	FA HABITAT RESULT	LAB REMARK	VARCHAR2(40)	STORET.TSRLBRMK	SHORT NAME	CHAR(6)
Dilution Ind	Dilution Ind	FA HABITAT RESULT	DILUTION INDICATOR	CHAR(1)	TSRRSULT	DILUTION IND CODE	CHAR(1)
Recovery Ind	Recovery Ind	FA HABITAT RESULT	RECOVERY INDICATOR	CHAR(1)	TSRRSULT	RECOVERY IND CODE	CHAR(1)
Correction Ind	Correction Ind	FA HABITAT RESULT	CORRECTION INDICATOR	CHAR(1)	TSRRSULT	CORRECTION IND CD	CHAR(1)
Other Lab Info	Lab ID	FA HABITAT RESULT	LAB ID	CHAR(8)	TSRLAB	ID CODE	CHAR(8)
Other Lab Info	Lab Name	FA HABITAT RESULT	LAB NAME	VARCHAR2(60)	TSRLAB	NAME	VARCHAR2(60)
Other Lab Info	Lab Cert	FA HABITAT RESULT	LAB CERTIFIED	CHAR(1)	TSRRSULT	LAB CERT IND CODE	CHAR(1)
Other Lab Info	Lab Batch ID	FA HABITAT RESULT	LAB BATCH ID	CHAR(12)	TSRRSULT	LAB BATCH ID CODE	CHAR(12)
Other Lab Info	Analysis Date	FA HABITAT RESULT	ANALYSIS DATE TIME	DATE	TSRRSULT	ANALYSIS DATE	DATE
					TSRRSULT	ANALYSIS TIME	DATE
		FA HABITAT RESULT	ANALYSIS TIME ZONE	CHAR(3)	TSRRSULT	ANALYSIS TIME ZONE	CHAR(3)
Num of Reps	Num of Reps	FA HABITAT RESULT	REPLICATE ANALYSIS COUNT	NUMBER	TSRRSULT	REPL ANALYSIS NUM	NUMBER(2)
Precision	Precision	FA HABITAT RESULT	PRECISION	CHAR(12)	TSRRSULT	PRECISION AMT TXT	CHAR(12)
Bias	Bias	FA HABITAT RESULT	BIAS	CHAR(12)	TSRRSULT	BIAS	CHAR(12)
Conf Level	Conf Level	FA HABITAT RESULT	CONFIDENCE LEVEL	CHAR(8)	TSRRSULT	CONF LVL PCT MSR	CHAR(8)
Correction for Bias Ind	Correction for Bias Ind	FA HABITAT RESULT	CONF LVL CORR BIAS	CHAR(1)	TSRRSULT	CONF LVL CORR BIAS	CHAR(1)

Regular Result Report Column Mapping

SDC-0002-014-EB-5018

September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Org ID	Org ID	FA REGULAR RESULT	ORGANIZATION_ID	CHAR(8)	TSMORGAN	ORG_ID	CHAR(8)
Org Name	Org Name	DI ORG	ORGANIZATION_NAME	VARCHAR2(60)	TSMORGAN	NAME	VARCHAR2(60)
Station ID	Station ID	FA REGULAR RESULT	STATION_ID	CHAR(15)	TSMSTATN	IDENTIFICATION_CD	CHAR(15)
Station Name	Station Name	FA REGULAR RESULT	STATION_NAME	VARCHAR2(60)	TSMSTATN	NAME	VARCHAR2(60)
Station Location Info	Station Latitude	FA REGULAR RESULT	STN_LATITUDE	NUMBER	TSMALP	LAT_DEC_DEG_MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Station Location Info	Station Longitude	FA REGULAR RESULT	STN_LONGITUDE	NUMBER	TSMALP	LONG_DEC_DEG_MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Station Location Info	State Name	DI GEO STATE	STATE_NAME	VARCHAR2(21)	TSMGEOPA	STATE_NAME	VARCHAR2(21)
Station Location Info	County Name	DI GEO COUNTY	COUNTY_NAME	VARCHAR2(25)	TSMGEOPA	COUNTY_NAME	VARCHAR2(25)
Station Location Info	HUC	FA REGULAR RESULT	HYDROLOGIC_UNIT_CODE	CHAR(8)	STORET.TSMFHU	HYDROLOGIC_UNIT_CD	CHAR(8)
S/G/O Indicator	S/G/O Indicator	FA REGULAR RESULT	SGO_INDICATOR	CHAR(1)			
Visit Num	Visit Num	FA REGULAR RESULT	STATION_VISIT_ID	CHAR(3)	TSRSTVST	ID_NUMBER	CHAR(3)
Visit Start	Visit Start	FA REGULAR RESULT	VISIT_START_DATE_TIME	DATE	TSRSTVST	ARRIVAL_DATE	DATE
					TSRSTVST	ARRIVAL_TIME	DATE
		FA REGULAR RESULT	VISIT_START_TIME_ZONE	CHAR(3)	TSRSTVST	ARRIVAL_TIME_ZONE	CHAR(3)
Visit Stop	Visit Stop	FA REGULAR RESULT	VISIT_STOP_DATE_TIME	DATE	TSRSTVST	DEPARTURE_DATE	DATE
					TSRSTVST	DEPARTURE_TIME	DATE
		FA REGULAR RESULT	VISIT_STOP_TIME_ZONE	CHAR(3)	TSRSTVST	DEPRTURE_TIME_ZONE	CHAR(3)
Trip ID	Trip ID	FA REGULAR RESULT	TRIP_ID	CHAR(15)	TSRTRIP	ID_CODE	CHAR(15)
Trip Name	Trip Name	FA REGULAR RESULT	TRIP_NAME	VARCHAR2(60)	TSRTRIP	NAME	VARCHAR2(60)
Activity ID	Activity ID	FA REGULAR RESULT	ACTIVITY_ID	CHAR(12)	TSRFDACT	ID_CODE	CHAR(12)
Activity Start	Activity Start	FA REGULAR RESULT	ACTIVITY_START_DATE_TIME	DATE	TSRFDACT	START_DATE	DATE
					TSRFDACT	START_TIME	DATE
		FA REGULAR RESULT	ACT_START_TIME_ZONE	CHAR(3)	TSRFDACT	START_TIME_ZONE	CHAR(3)
Activity Stop	Activity Stop	FA REGULAR RESULT	ACTIVITY_STOP_DATE_TIME	DATE	TSRFDACT	STOP_DATE	DATE
					TSRFDACT	STOP_TIME	DATE
		FA REGULAR RESULT	ACT_STOP_TIME_ZONE	CHAR(3)	TSRFDACT	STOP_TIME_ZONE	CHAR(3)
Activity Medium	Activity Medium	FA REGULAR RESULT	ACTIVITY_MEDIUM	VARCHAR2(20)	TSRFDACT	MEDIUM_TYPE_NAME	VARCHAR2(20)
Activity Matrix	Activity Matrix	FA REGULAR RESULT	ACTIVITY_MATRIX	VARCHAR2(25)	TSRMRTRX	NAME	VARCHAR2(25)
Activity Type	Activity Type	FA REGULAR RESULT	ACTIVITY_TYPE	CHAR(13)	TSRFDACT	TYPE_NAME	CHAR(13)
Activity Category-Rep Num	Activity Category-Rep Num	FA REGULAR RESULT	ACTIVITY_CATEGORY	VARCHAR2(30)	TSRFDACT	CATEGORY_TYPE_NAME	VARCHAR2(30)
		FA REGULAR RESULT	REPLICATE_NUMBER	NUMBER(3)	TSRFDACT	REPLICATE_NUMBER	NUMBER(3)
Activity Intent	Activity Intent	FA REGULAR RESULT	ACTIVITY_INTENT	VARCHAR2(20)	TSRFDACT	INTENT_TYPE_NAME	VARCHAR2(20)
Field Set	Field Set	FA REGULAR RESULT	FIELD_SET	VARCHAR2(130)	TSRFDSET	NAME	VARCHAR2(30)
Actual Point Type	Actual Location Point Type	FA REGULAR RESULT	LOCATION_POINT_TYPE	CHAR(16)	TSMALP	TYPE_CODE	CHAR(16)
Actual Point Sequence	Actual Point Sequence Num	FA REGULAR RESULT	POINT_SEQUENCE_NUMBER	NUMBER(5)	TSMALP	SEQUENCE_NUMBER	NUMBER(4)
Actual Point Name	Actual Point Name	FA REGULAR RESULT	POINT_NAME	VARCHAR2(30)	TSMALP	POINT_NAME	VARCHAR2(30)
Actual Activity Latitude	Actual Activity Latitude	FA REGULAR RESULT	ACTIVITY_LATITUDE	NUMBER	TSMALP	LAT_DEC_DEG_MSR	NUMBER(9,7)
					TSMALP		
					TSMALP		
Actual Activity Longitude	Actual Activity Longitude	FA REGULAR RESULT	ACTIVITY_LONGITUDE	NUMBER	TSMALP	LONG_DEC_DEG_MSR	NUMBER(10,7)
					TSMALP		
					TSMALP		
Well Number	Well Number	FA REGULAR RESULT	WELL_NUMBER	CHAR(15)	TSMWELL	ID_NUMBER	CHAR(15)
Pipe Number	Pipe Number	FA REGULAR RESULT	PIPE_NUMBER	CHAR(15)	TSMPIPE	ID_NUMBER	CHAR(15)
Additional Act Location Inf	Geopositioning Method	LU MAD HMETHOD	GEOPOSITIONING_METHOD	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)

Regular Result Report Column Mapping

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September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Additional Act Location Info	Horizontal Datum	LU MAD HDATUM	HORIZONTAL DATUM	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Additional Act Location Info	Map Scale	FA REGULAR RESULT	MAP SCALE	VARCHAR2(20)	TSMALP	GEOPSTNG SCALE TXT	VARCHAR2(20)
Activity Depth	Activity Depth	FA REGULAR RESULT	ACTIVITY DEPTH	CHAR(8)	TSRFDACT	DEPTH TO ACTIVITY	CHAR(8)
Activity Depth Unit	Activity Depth Unit	FA REGULAR RESULT	ACTIVITY DEPTH UNIT	CHAR(3)	TSRFDACT	DEPTH TO ACT UN CD	CHAR(3)
Activity Upper Depth	Activity Upper Depth	FA REGULAR RESULT	ACTIVITY UPPER DEPTH	CHAR(8)	TSRFDACT	UPPER DEPTH TO ACT	CHAR(8)
Activity Rel Depth	Activity Rel Depth	FA REGULAR RESULT	ACTIVITY REL DEPTH	CHAR(15)	TSRFDACT	RELTV DEPTH NAME	CHAR(15)
Activity Lower Depth	Activity Lower Depth	FA REGULAR RESULT	ACTIVITY LOWER DEPTH	CHAR(8)	TSRFDACT	LOWER DEPTH TO ACT	CHAR(8)
Upr Lwr Depth Unit	Upr Lwr Depth Unit	FA REGULAR RESULT	UPR LWR DEPTH UNIT	CHAR(3)	TSRFDACT	DEPTH MSR UN CD	CHAR(3)
Sample Collection ID	Sample Collection ID	FA REGULAR RESULT	FIELD PROCEDURE ID	CHAR(10)	TSRFLDPR	ID CODE	CHAR(10)
Field Gear ID	Field Gear ID	FA REGULAR RESULT	FIELD GEAR ID	CHAR(10)	TSRFLDGR	ID CODE	CHAR(10)
Field Gear Config ID	Field Gear Config ID	FA REGULAR RESULT	GEAR CONFIG ID	CHAR(10)	TSRGRCFG	ID CODE	CHAR(10)
Sample Preservation	Container Desc	FA REGULAR RESULT	CONTAINER DESC	VARCHAR2(60)	TSRSMPLE	CONTAINER TYPE NM	VARCHAR2(32)
					TSRSMPLE	CONTAINER COLOR	VARCHAR2(10)
					TSRSMPLE	CONTAINER SIZE MSR	NUMBER(6,2)
					TSRSMPLE	CONTAINER SIZE UN	CHAR(3)
Sample Preservation	Temp Pres Type	FA REGULAR RESULT	TEMP PRESERVN TYPE	VARCHAR2(25)	TSRSMPLE	TEMP PRESERVN TYPE	VARCHAR2(25)
Sample Preservation	Pres Storage Proc	FA REGULAR RESULT	PRESRV STRGE PRCDR	VARCHAR2(256)	TSRSMPLE	PRESRV STRGE PRCDR	VARCHAR2(1999)
Portable Data Logger	Portable Data Logger	FA REGULAR RESULT	PORTABLE DATA LOGGER	VARCHAR2(34)	TSRDLIN	LINE NUMBER	NUMBER(8)
					TSRDLIN	LINE NAME	VARCHAR2(25)
Characteristic Name	Characteristic Name	FA REGULAR RESULT	CHARACTERISTIC NAME	VARCHAR2(60)	STORET.TSRCHAR	DISPLAY NAME	VARCHAR2(60)
CAS Num	CAS Num	FA REGULAR RESULT	CAS NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
EPA Registry Num	EPA Registry Num	FA REGULAR RESULT	EPA REG NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
ITIS Num	ITIS Num	FA REGULAR RESULT	ITIS NUMBER	VARCHAR2(500)	STORET.TSRCHALS	NAME	VARCHAR2(500)
Sample Fraction	Sample Fraction	FA REGULAR RESULT	SAMPLE FRACTION TYPE	VARCHAR2(15)	TSRRSULT	SMPL FRAC TYPE NM	VARCHAR2(15)
Value Type	Value Type	FA REGULAR RESULT	RESULT VALUE TYPE	CHAR(10)	TSRRSULT	VALUE TYPE NAME	CHAR(10)
Statistic Type	Statistic Type	FA REGULAR RESULT	STATISTIC TYPE	CHAR(18)	TSRRSULT	STATISTIC TYPE NM	CHAR(18)
Result Value as Text	Result Value as Text	FA REGULAR RESULT	RESULT VALUE TEXT	CHAR(15)	TSRRSULT	VALUE TEXT	CHAR(15)
Result Value as Number	Result Value as Number	FA REGULAR RESULT	RESULT VALUE	NUMBER	TSRRSULT	VALUE MEASURE	NUMBER(13,5)
Units	Units	FA REGULAR RESULT	RESULT UNIT	CHAR(10)	STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
	Result Std Value	FA REGULAR RESULT	<<NULL>>				
	Result Std Unit	FA REGULAR RESULT	<<NULL>>				
Result Comment	Result Comment	FA REGULAR RESULT	RESULT COMMENT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Result Free Text	Result Free Text	FA REGULAR RESULT	TEXT RESULT	VARCHAR2(4000)	TSMGNTXT	DESCRIPTION TEXT	LONG(4000)
Weight Basis	Weight Basis	FA REGULAR RESULT	WEIGHT BASIS TYPE	CHAR(12)	TSRRSULT	WT BASIS TYPE NM	CHAR(12)
Temperature Basis	Temperature Basis	FA REGULAR RESULT	TEMPERATURE BASIS LEVEL	CHAR(8)	TSRRSULT	TEMP BASIS LVL NM	CHAR(8)
Duration Basis	Duration Basis	FA REGULAR RESULT	DURATION BASIS	CHAR(10)	TSRRSULT	DUR BASIS TYPE NM	CHAR(10)
Particle Size Basis	Particle Size Basis	FA REGULAR RESULT	PARTICLE SIZE	VARCHAR2(40)	TSRRCI	PARTICLE SIZE BASIS	VARCHAR2(40)
Distance Measured From	Distance Measured From	FA REGULAR RESULT	DISTANCE MEASURE FROM	VARCHAR2(20)	TSRRSULT	REF PT FROM NAME	VARCHAR2(20)
Distance Measured To	Distance Measured To	FA REGULAR RESULT	DISTANCE MEASURE TO	VARCHAR2(20)	TSRRSULT	REF PT TO NAME	VARCHAR2(20)
Analytical Proc ID	Analytical Proc ID	FA REGULAR RESULT	ANALYTICAL PROCEDURE SOURCE	CHAR(12)	TSRANLPR	SOURCE ACR	CHAR(12)
		FA REGULAR RESULT	ANALYTICAL PROCEDURE ID	CHAR(15)	TSRANLPR	PROCEDURE ID	CHAR(15)
Additional Anal Proc Info	Detection Limit	FA REGULAR RESULT	DETECTION LIMIT	VARCHAR2(25)	TSRDQL	MIN DETECT LIMIT	CHAR(12)
					STORET.TSRUOM	SHORT FORM NAME	CHAR(10)
Additional Anal Proc Info	Detection Limit Descript	FA REGULAR RESULT	DETECTION LIMIT DESCRIPTION	VARCHAR2(254)	TSRDQL	DESCRIPTION TEXT	VARCHAR2(254)
Additional Anal Proc Info	Lower Quantification Limit	FA REGULAR RESULT	LOWER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MIN QUANT LIMIT	CHAR(12)
Additional Anal Proc Info	Upper Quantification Limit	FA REGULAR RESULT	UPPER QUANTITATION LIMIT	CHAR(12)	TSRDQL	MAX QUANT LIMIT	CHAR(12)
Lab Remark	Lab Remark	FA REGULAR RESULT	LAB REMARK	VARCHAR2(40)	STORET.TSRLBRMK	SHORT NAME	CHAR(6)
Dilution Ind	Dilution Ind	FA REGULAR RESULT	DILUTION INDICATOR	CHAR(1)	TSRRSULT	DILUTION IND CODE	CHAR(1)
Recovery Ind	Recovery Ind	FA REGULAR RESULT	RECOVERY INDICATOR	CHAR(1)	TSRRSULT	RECOVERY IND CODE	CHAR(1)
Correction Ind	Correction Ind	FA REGULAR RESULT	CORRECTION INDICATOR	CHAR(1)	TSRRSULT	CORRECTION IND CD	CHAR(1)
Other Lab Info	Lab ID	FA REGULAR RESULT	LAB ID	CHAR(8)	TSRLAB	ID CODE	CHAR(8)

B-Regular Result Report Column Mapping-2

Regular Result Report Column Mapping

SDC-0002-014-EB-5018
September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Other Lab Info	Lab Name	FA_REGULAR_RESULT	LAB_NAME	VARCHAR2(60)	TSRLAB	NAME	VARCHAR2(60)
Other Lab Info	Lab Cert	FA_REGULAR_RESULT	LAB_CERTIFIED	CHAR(1)	TSRRRESULT	LAB_CERT_IND_CODE	CHAR(1)
Other Lab Info	Lab Batch ID	FA_REGULAR_RESULT	LAB_BATCH_ID	CHAR(12)	TSRRRESULT	LAB_BATCH_ID_CODE	CHAR(12)
Other Lab Info	Analysis Date	FA_REGULAR_RESULT	ANALYSIS_DATE_TIME	DATE	TSRRRESULT	ANALYSIS_DATE	DATE
					TSRRRESULT	ANALYSIS_TIME	DATE
		FA_REGULAR_RESULT	ANALYSIS_TIME_ZONE	CHAR(3)	TSRRRESULT	ANALYSIS_TIME_ZONE	CHAR(3)
Num of Reps	Num of Reps	FA_REGULAR_RESULT	REPLICATE_ANALYSIS_COUNT	NUMBER	TSRRRESULT	REPL_ANALYSIS_NUM	NUMBER(2)
Precision	Precision	FA_REGULAR_RESULT	PRECISION	CHAR(12)	TSRRRESULT	PRECISION_AMT_TXT	CHAR(12)
Bias	Bias	FA_REGULAR_RESULT	BIAS	CHAR(12)	TSRRRESULT	BIAS	CHAR(12)
Conf Level	Conf Level	FA_REGULAR_RESULT	CONFIDENCE_LEVEL	CHAR(8)	TSRRRESULT	CONF_LVL_PCT_MSR	CHAR(8)
Correction for Bias Ind	Correction for Bias Ind	FA_REGULAR_RESULT	CONF_LVL_CORR_BIAS	CHAR(1)	TSRRRESULT	CONF_LVL_CORR_BIAS	CHAR(1)

Station Report Column Mapping

SDC-0002-014-EB-5018

September 12, 2003

Report Element	Report Column Name	Data Warehouse			STORET 2.0		
		Table Name	Column Name	Data Type	Table Name	Column Name	Data Type
Org ID	Org ID	FA STATION	ORGANIZATION ID	CHAR(8)	TSMORGAN	ORG ID	CHAR(8)
Station ID	Station ID	FA STATION	STATION ID	CHAR(15)	TSMSTATN	IDENTIFICATION_CD	CHAR(15)
Station Name	Station Name	FA STATION	STATION NAME	VARCHAR2(60)	TSMSTATN	NAME	VARCHAR2(60)
Org Name	Org Name	DI ORG	ORGANIZATION NAME	VARCHAR2(60)	TSMORGAN	NAME	VARCHAR2(60)
Primary Type	Primary Type	DI STATN TYPES	PRIMARY TYPE	VARCHAR2(30)	STORET.TSMVSTC	PRIMARY TYPE CD	VARCHAR2(30)
Secondary Type	Secondary Type	DI STATN TYPES	SECONDARY TYPE	VARCHAR2(30)	STORET.TSMVSTC	SECONDARY TYPE CD	VARCHAR2(30)
S/G/O Indicator	S/G/O Indicator	FA STATION	SGO INDICATOR	CHAR(1)			
Well Number	Well Number	FA STATION	WELL NUMBER	CHAR(15)	TSMWELL	ID NUMBER	CHAR(15)
Well Name	Well Name	FA STATION	WELL NAME	VARCHAR2(40)	TSMWELL	NAME	VARCHAR2(40)
Pipe Number	Pipe Number	FA STATION	PIPE NUMBER	CHAR(15)	TSMPIPE	ID NUMBER	CHAR(15)
NAICS Code	NAICS Code	FA STATION	NAICS CODE	VARCHAR2(30)	STORET.TSMNAICS	TSMNAICS CODE	CHAR(6)
Spring Info	Spring Type Improvement	FA STATION	SPRING TYPE IMPROVEMENT	CHAR(14)	TSMSPRNG	IMPROVEMENT CODE	CHAR(14)
Spring Info	Permanence	FA STATION	SPRING PERMANENCE		TSMSPRNG	PERMANENCE CODE	CHAR(12)
Spring Info	USGS Geologic Unit Code-Name	FA STATION	SPRING USGS GEOLOGIC UNIT	VARCHAR2(100)	STORET.TSMGEOUN	TSMGEOUN_CD	CHAR(12)
		FA STATION			STORET.TSMGEOUN	NAME	VARCHAR2(80)
Spring Info	Spring Other Name	FA STATION	SPRING OTHER NAME	VARCHAR2(120)	TSMSPRNG	OTHR GEO UNIT NM	VARCHAR2(120)
Spring Info	USGS Lithologic Unit Code-Name	FA STATION	SPRING USGS LITHOLOGIC UNIT	VARCHAR2(135)	STORET.TSMLTHUN	TSMLTHUN_CD	CHAR(12)
		FA STATION			STORET.TSMLTHUN	NAME	VARCHAR2(120)
Location Point Type	Location Point Type	FA STATION	LOCATION POINT TYPE	CHAR(16)	TSMALP	TYPE CODE	CHAR(16)
Point Sequence Number	Point Sequence Number	FA STATION	POINT SEQUENCE NUMBER	NUMBER	TSMALP	SEQUENCE NUMBER	NUMBER(4)
Point Name	Point Name	FA STATION	POINT NAME	VARCHAR2(30)	TSMALP	POINT NAME	VARCHAR2(30)
Latitude/Longitude	Latitude	FA STATION	LATITUDE	NUMBER	TSMALP	LAT DIRECTION	CHAR(1)
					TSMALP	GPS LAT DEGREE MSR	NUMBER(2)
					TSMALP	GPS LAT MINUTE MSR	NUMBER(6.4)
Latitude/Longitude	Longitude	FA STATION	LONGITUDE	NUMBER	TSMALP	LONG DIRECTION	CHAR(1)
					TSMALP	GPS LONG DEG MSR	NUMBER(3)
					TSMALP	GPS LONG MIN MSR	NUMBER(6.4)
Lat/Long Info	Horizontal Datum	LU MAD HDATUM	HORIZONTAL DATUM	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Lat/Long Info	Geopositioning Method	LU MAD HMETHOD	GEOPOSITIONING METHOD	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Lat/Long Info	Map Scale	FA STATION	MAP SCALE	VARCHAR2(20)	TSMALP	GEOPSTNG SCALE TXT	VARCHAR2(20)
Elevation (w/ Units)	Elevation	FA STATION	ELEVATION	CHAR(15)	TSMALP	ELEVATION MSR	NUMBER(9.4)
					TSMALP	ELVTN UNT CD	CHAR(3)
Additional Elevation Inf	Elevation Datum	LU MAD VDATUM	ELEVATION DATUM	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Additional Elevation Inf	Elevation Method	LU MAD VMETHOD	ELEVATION METHOD	VARCHAR2(254)	STORET.TSMMDAD	DESCRIPTION	VARCHAR2(254)
Country Name	Country Name	DI GEO STATE	COUNTRY NAME	CHAR(13)	TSMGEOPA	COUNTRY NAME	CHAR(13)
State	State	DI GEO STATE	STATE NAME	VARCHAR2(21)	TSMGEOPA	STATE NAME	VARCHAR2(21)
County	County	DI GEO COUNTY	COUNTY NAME	VARCHAR2(25)	TSMGEOPA	COUNTY NAME	VARCHAR2(25)
Hydrologic Unit Code	Hydrologic Unit Code	FA STATION	HYDROLOGIC UNIT CODE	CHAR(8)	STORET.TSMFHU	HYDROLOGIC UNIT CD	CHAR(8)
Hydrologic Unit Name	Hydrologic Unit Name	DI DB CAT	HYDROLOGIC UNIT NAME	VARCHAR2(200)	STORET.TSMFHU	NAME	VARCHAR2(200)
RF1 Info	RF1 Segment Code	FA STATION	RF1 SEGMENT CODE	CHAR(3)	STORET.TSMRRR	SEGMENT CODE	CHAR(3)
RF1 Info	RF1 Segment Name	FA STATION	RF1 SEGMENT NAME	VARCHAR2(30)	STORET.TSMRRR	NAME	VARCHAR2(30)
RF1 Info	RF1 Mileage	FA STATION	RF1 MILEAGE	NUMBER(5.2)	TSMALP	RF1 MILEAGE	NUMBER(5.2)
RF1 Info	On Reach Ind	FA STATION	ON REACH IND	CHAR(1)	TSMALP	ON RIVER REACH IND	CHAR(1)
NRCS Watershed ID	NRCS Watershed ID	FA STATION	NRCS WATERSHED ID	CHAR(8)	TSMALP	NRCS WTRSD ID NUM	CHAR(8)
Estuary Info	Primary Estuary	LU ESTRY PRIMARY	PRIMARY ESTUARY	VARCHAR2(30)	STORET.TSMESTRY	NAME	VARCHAR2(30)
Estuary Info	Secondary Estuary	LU ESTRY SECONDARY	SECONDARY ESTUARY	VARCHAR2(30)	STORET.TSMESTRY	NAME	VARCHAR2(30)
Estuary Info	Other Estuary Name	FA STATION	OTHER ESTUARY NAME	VARCHAR2(30)	TSMESTLC	OTHER ESTUARY NAME	VARCHAR2(30)
Great Lake Name	Great Lake Name	FA STATION	GREAT LAKE NAME	CHAR(15)	TSMGLL	NAME	CHAR(15)
Ocean Name	Ocean Name	FA STATION	OCEAN NAME	CHAR(14)	TSMOCNLC	NAME	CHAR(14)
Natv American Land Name	Natv American Land Name	FA STATION	NATV AMERICAN LAND NAME	VARCHAR2(40)	STORET.TSMNAL	NAME	VARCHAR2(40)
FRS Key Identifier	FRS Key Identifier	FA STATION	FRS KEY IDENTIFIER	VARCHAR2(36)	TSMSTATN	EPA KEY IDENTIFIER	VARCHAR2(36)
Station Document/Graphic Name	Station Document/Graphic Name	FA STATION	BLOB TITLE	VARCHAR2(60)	TSMSTATN	BLOB TITLE	VARCHAR2(60)

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