



Florida STORET Retrieval Application WALKTHROUGH

<http://storet.dep.state.fl.us>

PURPOSE

This document contains instructions for retrieving information from Florida STORET. It will discuss, in detail, the following options:

- I. How to search and download station information.
- II. How to search and download result information.
- III. How to search stations by map.

I. How to Search and Download Station Information

You may enter the station retrieval system by selecting the [Stations](#) link on the left-hand side of the Florida STORET HOME screen.

Welcome to the **Newly Updated and Restructured Release** of the Florida STORET data warehouse website. The warehouse contains all of the water quality, biological, and physical data collected and reported to the U.S. Environmental Protection Agency's (EPA's) STORET system with historical Legacy STORET data. This website allows you to dynamically query the STORET data warehouse and download as a text file or display it on a map. This website allows you to dynamically query the STORET data warehouse in three ways:

Stations: This allows you to query the stations dataset by one or more of seven specific fields. The result set that is generated is a list of stations that meet the criteria in the query. This result set can be downloaded as a text file; it can be further queried for analytical information collected at the selected stations; or it can be displayed on a map.

Stations By Map: This allows you to query the stations dataset by a physical area (county, city, zip code, WBID, etc.). The result set that is generated is a map display of stations that are located within the selected area. The mapping feature provides a number of standard tools for zooming, panning, extracting, and querying the information provided on the map. In addition, the result set can be further queried by using the Select feature on the left hand side of the screen.

Water Data: This allows you to query the analytical datasets by Organization ID, Characteristic, and Activity Date. The result set that is generated is a list of analytical results that meet the criteria in the query. This result set can be downloaded as a text file, or selections from this result set can be highlighted on the map display.

The [Help Page](#) explains how to navigate through this site. If you have any questions on how to use the features of this site or if you have any suggestions for improvements, please contact one of [Florida STORET staff](#).

The Florida STORET retrieval refers to each Data Provider Organization by its Org_ID (generally an acronym preceded by "21FLxxx"). If you are unsure of the agency whose data you are searching, you can view a crosswalk of Org_IDs with their full names [here](#).

Last updated: June 08, 2005

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2600 Blair Stone Road M.S. 3500 Tallahassee, Florida 32399 850-245-8336 (phone) / 850-245-8356 (fax)

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Query Options

Once in this station retrieval screen, four sets of options are listed to create a personalized stations query:

- (1) Query Options
- (2) Geographical Options
- (3) Display Options
- (4) Sort Options

We will discuss these options one at a time.

Stations - Microsoft Internet Explorer

Address: <http://epic228.dep.state.fl.us:7000/WrmSpa/default.do?page=stations>

Florida Department of Environmental Protection

Search: GO

DEP Home About DEP Programs Contact Site Map

Search Stations

Query Options:

Org ID: ALL

Projects:

Primary Type: ALL

USGS HUC Code: ALL

County Name: ALL

WBID:

Station ID:

Station Name:

Geographical Options: Enable Disable

Latitude: 24 dd 0 mm 0 ss

Longitude: 79 dd 0 mm 0 ss

Approximate Radius: 1 kilometer

Display Options:

Station ID Station Name

Primary Type Secondary Type

Latitude/Longitude County Name

WBID Org ID

Sort Options:

First Sort by: SELECT SORT OPTION

Second Sort by: SELECT SORT OPTION

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Query Options

Query Options allow the user to condense their station query according to the following parameters: Organization, Project, Primary Type, USGS HUC Code, County Name, WBID, Station ID, and/or Station Name.

ORG ID: All organizations may be included in a station query by selecting **ALL** under the organization drop down menu. Otherwise, select the organization of interest to proceed. This application has the functionality to select one **or** all organizations. If a few organizations are of interest, they should be selected individually.

Projects: If all organizations are selected, all projects from these organizations will be included in the final station query. If one organization is selected, all projects for that organization will be included in the station retrieval as long as the user does not highlight a particular project.

Primary Type: The number of stations retrieved can be reduced by choosing a single primary type. If the user is interested in retrieving stations from all water body types, they should select **ALL**.

USGS HUC Code: If the USGS HUC Code is known, it can be entered at this time. This is a pick list of all available USGS HUC Codes in the Florida STORET system. It is not a free text field; therefore, the code must be known in order to utilize this feature. As with the other query options, the user may select all USGS HUC Codes within the system by choosing **ALL**.

County Name: The number of stations retrieved can be reduced by choosing a single county name. If the user is interested in retrieving stations from all counties, they should select **ALL**.

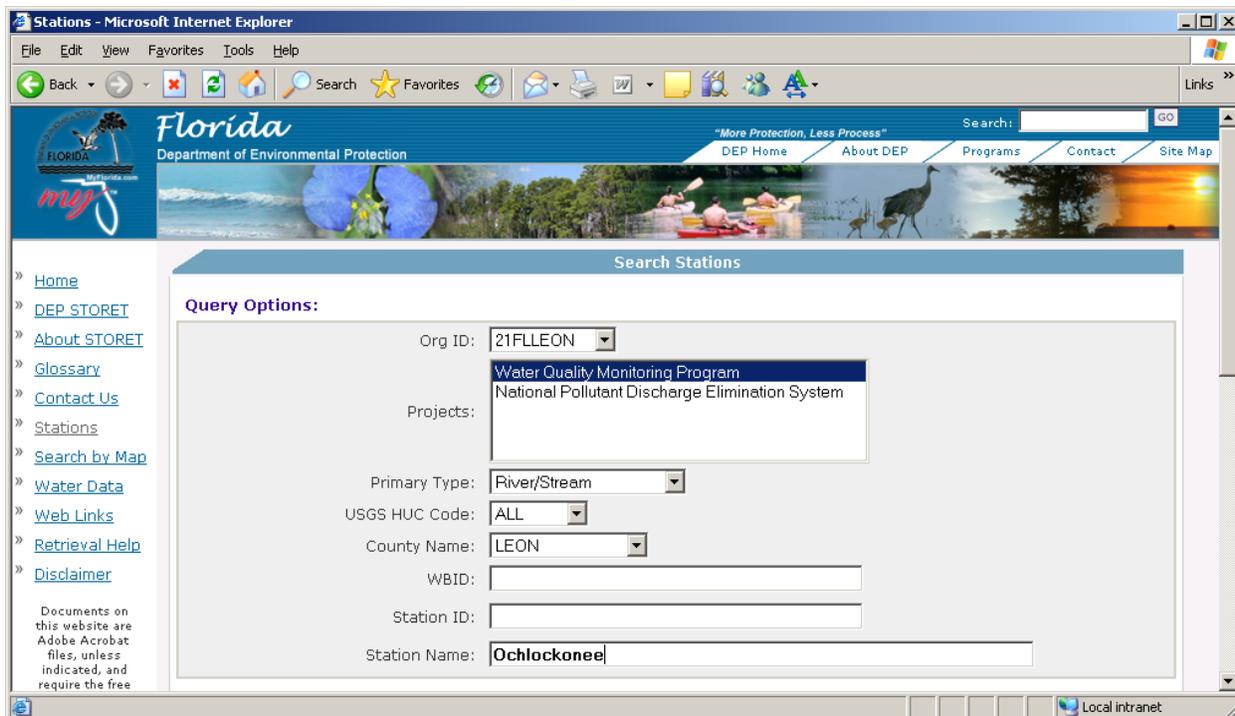
WBID: If the Waterbody ID is known, it may be entered at this time. If all water bodies are of interest, leave this field blank.

Station ID: If the Station ID is known, it may be entered here. This field is not case sensitive

Station Name: The user may search for a station name using this free text field. Station names that contain the text provided will be retrieved for all organizations (unless one organization was specified).

Below is an example of how the options discussed thus far could be used to query stations within Florida STORET. This query will select stations from the Water Quality Monitoring Program project within 21FLLEON (Leon County Public Works). Moreover, the query will only select stations with a River/Stream primary type in Leon County. The station name field must contain the character string “Ochlockonee”.

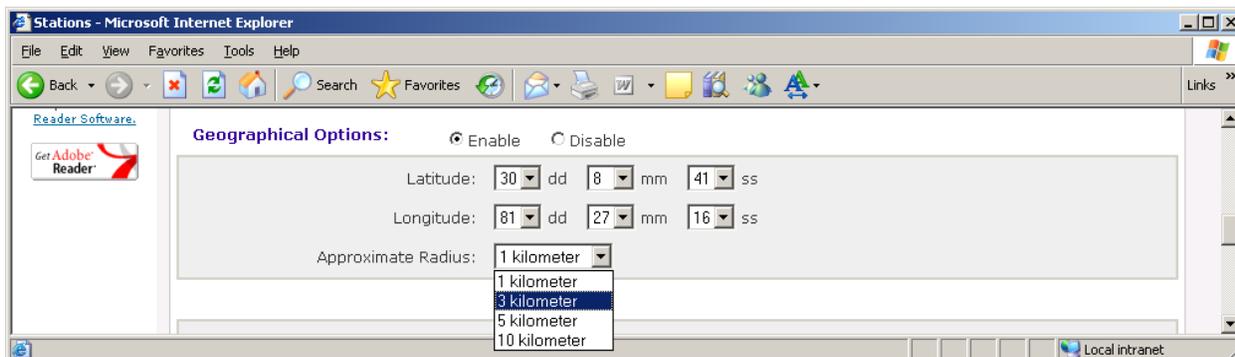
Example 1: Station Query Options



Geographical Options

As shown in Example 2 below, the user must **ENABLE** the geographical option in order to use this feature. Begin by choosing a Latitude and Longitude point of reference and a radius. The user may select stations within a 1, 3, 5, or 10 kilometer radius. The Geographical Option can be used in conjunction with the other available search options.

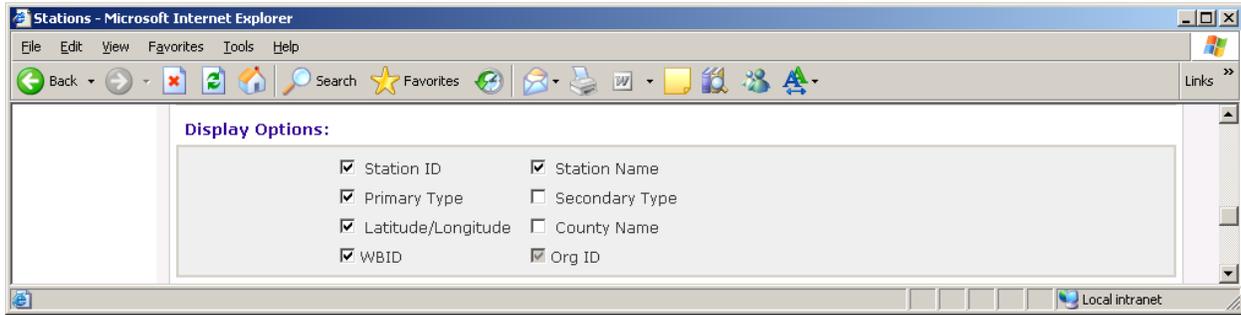
Example 2: Station Geographical Options



Display Options

Display Options allow the user to specify which columns should be included in the search output. By default, all columns will be selected. If a particular column is not of interest, click within the respective box to remove the check mark. In Example 3 below, Org ID, Station ID, Primary Type, Latitude, Longitude, WBID, and Station Name will be retrieved. Secondary Type and County Name have been removed from this query. Notice that Org ID is a mandatory field in all retrievals.

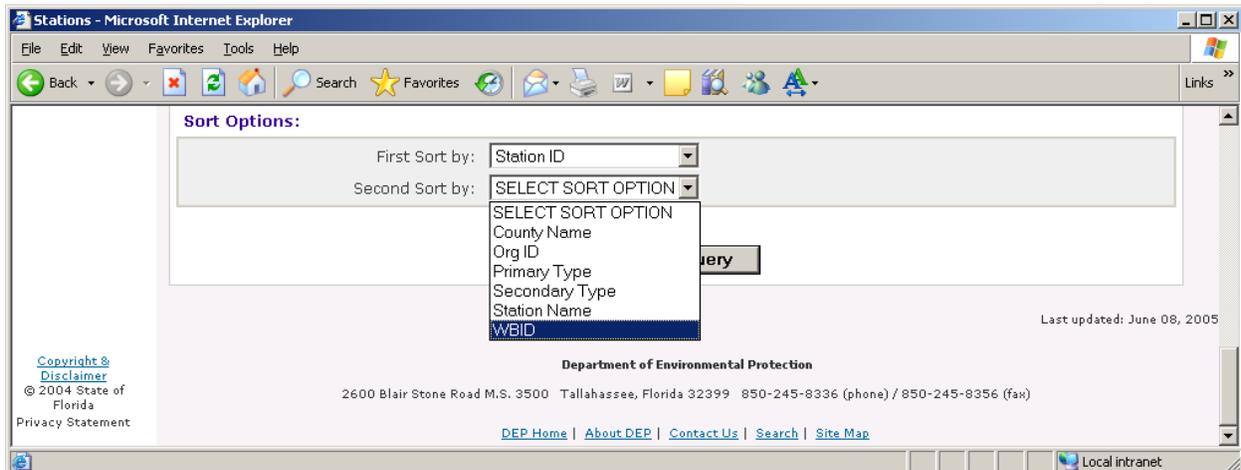
Example 3: Station Display Options



Sort Options

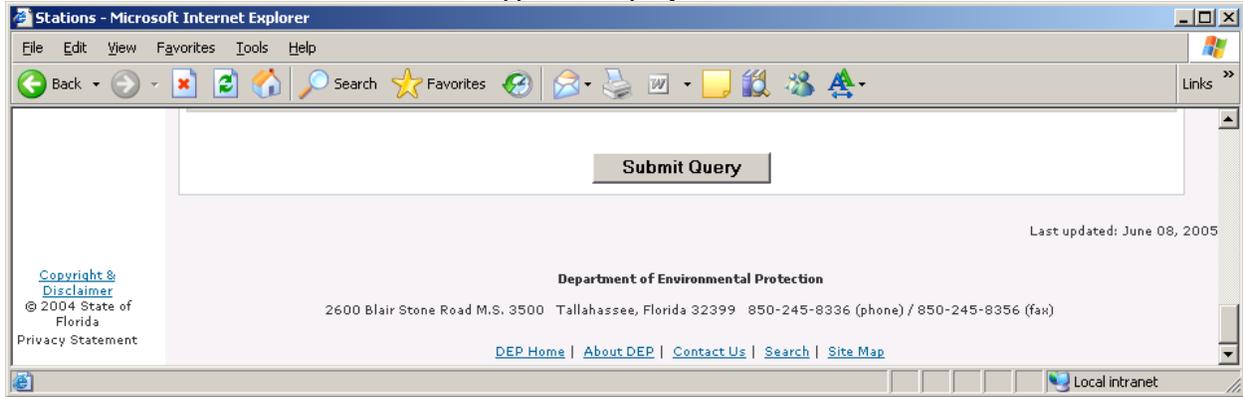
All queries can be sorted according to County Name, Organization ID, Primary Type, Secondary Type, Station ID, Station Name, or WBID. In Example 4 below, this query will sort stations according to the Station ID first. Secondly, all stations will be sorted by WBID. Each sort option will be presented in ascending order.

Example 4: Station Sort Options



Submit Query

Once the user is satisfied with elected query options, the **SUBMIT QUERY** button must be selected in order to retrieve desired records. A new browser will appear with query results.



Example 5: Station Query Results

Further actions can be performed by using the options at the bottom of the station query page. See details below.

Results 21 - 40 of about 70

<input checked="" type="checkbox"/>	Org ID	County	Latitude	Longitude	Datum	Method	Primary Type	Secondary Type	Station ID	Station Name	WBID
<input type="checkbox"/>	21FLLEON	LEON	30 25 14.232	84 7 59.268	OTHER	UNKN	River/Stream	None	LCLL3042084133	Unnamed Creek 2 @ 27 West	756
<input type="checkbox"/>	21FLLEON	LEON	30 25 15.852	84 7 36.444	OTHER	UNKN	River/Stream	None	LCLL3042184126	Unnamed Creek 1 @ 27 East	756
<input type="checkbox"/>	21FLLEON	LEON	30 25 18.228	84 9 55.89	OTHER	UNKN	River/Stream	None	LCLL3042184165	Unnamed Creek 3 @ 27 West	919
<input type="checkbox"/>	21FLLEON	LEON	30 25 31.152	84 10 43.284	OTHER	UNKN	River/Stream	None	LCLL3042584178	Unnamed Creek 4 @ 27 West	919
<input type="checkbox"/>	21FLLEON	LEON	30 25 44.868	84 12 14.004	OTHER	UNKN	River/Stream	None	LCLL3042984203	Unnamed Creek 5 @ 27 West	756
<input type="checkbox"/>	21FLLEON	LEON	30 25 55.128	84 7 4.872	OTHER	UNKN	River/Stream	None	LCLL3043184118	Unnamed Creek @ Chaires R...	756
<input type="checkbox"/>	21FLLEON	LEON	30 27 11.9516	84 13 53.8428	OTHER	UNKN	River/Stream	None	LCLL3045384231	Park Ave/Violet Trib	863
<input type="checkbox"/>	21FLLEON	LEON	30 27 22.3178	84 13 20.8092	OTHER	UNKN	River/Stream	None	LCLL3045684222	NE Ditch/Wveems Rd	756
<input type="checkbox"/>	21FLLEON	LEON	30 27 48.78	84 10 15.924	OTHER	UNKN	River/Stream	None	LCLL3046384171	Lower Lake Lafayette, Alf...	647
<input type="checkbox"/>	21FLLEON	LEON	30 27 50.436	84 14 22.524	OTHER	UNKN	River/Stream	None	LCLL3046484239	NE Ditch at Micc RD	756
<input type="checkbox"/>	21FLLEON	LEON	30 27 54.06	84 12 36.972	OTHER	UNKN	River/Stream	None	LCLL3048484210	Lafayette Crk at RR	756
<input checked="" type="checkbox"/>	21FLLEON	LEON	30 20 39.948	84 18 8.856	OTHER	UNKN	River/Stream	None	LCLM3034484302	Munson Slough 4 on forest...	807
<input checked="" type="checkbox"/>	21FLLEON	LEON	30 20 54.348	84 18 6.3	OTHER	UNKN	River/Stream	None	LCLM3034884301	Munson Slough 3 Gas Pipel...	807
<input checked="" type="checkbox"/>	21FLLEON	LEON	30 21 50.256	84 18 6.516	OTHER	UNKN	River/Stream	None	LCLM3036484301	Munson Slough 2 below dam	807
<input checked="" type="checkbox"/>	21FLLEON	LEON	30 22 30.792	84 18 50.076	OTHER	UNKN	River/Stream	None	LCLM3037584313	Munson Slough 1 above Lak...	807D
<input type="checkbox"/>	21FLLEON	LEON	30 23 27.0074	84 18 45.7452	OTHER	UNKN	Lake	None	LCLM3039084312	Lake Henrietta 4	807D
<input type="checkbox"/>	21FLLEON	LEON	30 23 42.4889	84 18 34.0956	OTHER	UNKN	Lake	None	LCLM3039584309	Lake Henrietta 3	807D
<input type="checkbox"/>	21FLLEON	LEON	30 24 5.5757	84 18 24.2352	OTHER	UNKN	Lake	None	LCLM3040184306	Lake Henrietta 2	807D
<input type="checkbox"/>	21FLLEON	LEON	30 24 13.1807	84 18 28.4184	OTHER	UNKN	Lake	None	LCLM3040384307	Lake Henrietta 1	807D
<input checked="" type="checkbox"/>	21FLLEON	LEON	30 24 14.6459	84 18 28.6798	OTHER	UNKN	River/Stream	None	LCLM3040484308	Munson Slough @ Springhil...	807D

Page: 2

Buttons: BACK, NEXT, Search Selected Station, View Station from Map, Click to download as text file

Callouts: 5a., 5b., 5c., 5d., 5e.

5a: Selecting stations for further investigation. Individual stations or all stations may be selected for further investigation. In order to select all stations on a given page, click in the box next to ORG_ID. This action will produce check marks for all stations on that page. To select one or more stations, simply click one time in the empty box to the left of the station(s) of interest. Only the stations with check marks will be included in further investigations discussed under 5c and 5e. Notice for this example, all stations on this page at “Munson Slough” have been selected.

5b: View additional pages. A maximum of twenty (20) stations will appear on a given page. Use the ‘BACK’ or ‘NEXT’ button to scroll through multiple pages. Checked stations will remain selected even when navigating between pages.

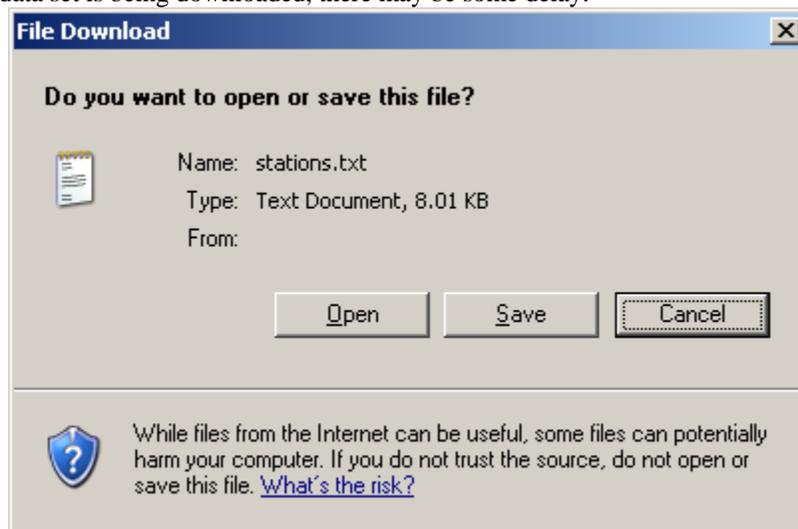
5c: Retrieving results for selected stations. After selecting the stations of interest per instructions given in 5a above, click the button. This action will move the user to a results retrieval page for these stations. See screen shot below. Searching and downloading result information will be covered in the next section.

The screenshot shows the Florida Department of Environmental Protection's 'Search Water Data' web application. The page features a navigation menu on the left with links like Home, DEP STORET, and Glossary. The main content area is titled 'Search Water Data' and includes a search instruction: 'Search water data based on selected stations from station report.' Below this is a table of selected stations:

Org ID	Station ID	Station Name
21FLEON	LCLM3040484308	Munson Slough @ Springhill Rd
21FLEON	LCLM3037584313	Munson Slough 1 above Lake Munson
21FLEON	LCLM3036484301	Munson Slough 2 below dam
21FLEON	LCLM3034884301	Munson Slough 3 Gas Pipeline Road
21FLEON	LCLM3034484302	Munson Slough 4 on forest rd 30031

Below the table are 'Query Options' including a 'Group' dropdown set to 'ALL', a list of characteristics (1,1-Dichloroethylene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, 1,3-Dichlorobenzene), and an 'Activity Date Range' set from July 14, 2005, to July 14, 2006.

5d: Downloading station information. When user selects “[Click to download as text file](#)” a File Download box appears. If a large data set is being downloaded, there may be some delay.



The station information can either be viewed or saved as a pipe delimited text file. This saved file can be opened in Microsoft Excel for easier viewing.

```

stations[1].txt - Notepad
File Edit Format View Help
Org ID|County|Latitude|Longitude|Datum|Method|Primary Type|Secondary Type|Station ID|Station Name|WBID000
21FLLEON|LEON|30 33|42.264|84 7 6.132|OTHER|UNKN|River/Stream|None|LCBS3056184118|Black Creek 1 @ Creek Ridge Circle|6280
21FLLEON|LEON|30 31|26.436|84 6 32.832|OTHER|UNKN|River/Stream|None|LCBS3052484109|Black Creek 2 @ Miccosukee and McCracken|6280
21FLLEON|LEON|30 30|4.212|84 4 51.276|OTHER|UNKN|River/Stream|None|LCBS3050184080|Black Creek 3 @ Baum Rd Bridge near CR0348|6280
21FLLEON|LEON|30 27|44.352|84 22 14.304|OTHER|UNKN|River/Stream|None|LCLM3046284370|Gum Swamp Station 2 nr Memphis Rd|80700
21FLLEON|LEON|30 25|48.756|84 31 46.02|OTHER|UNKN|River/Stream|None|LCOC3043084529|Polk Creek @ 20|8960
21FLLEON|LEON|30 24|47.16|84 33 5.688|OTHER|UNKN|River/Stream|None|LCOC3041384551|Harvey Creek @ 20|9210
21FLLEON|LEON|30 23|10.824|84 38 10.356|OTHER|UNKN|River/Stream|None|LCOC3038884636|Soapstone Creek @ 375|9850
21FLLEON|LEON|30 23|.888|84 38 18.96|OTHER|UNKN|River/Stream|None|LCOC3038884638|Hubbard Branch @ 375|9890
21FLLEON|LEON|30 19|31.98|84 41 38.0998|OTHER|UNKN|River/Stream|None|LCOC3032584638|Black Creek @ 375|10240
21FLLEON|LEON|30 23|18.996|84 35 3.876|OTHER|UNKN|River/Stream|None|LCOC3038884584|Freeman Creek @ 267|9540
21FLLEON|LEON|30 21|17.82|84 31 22.08|OTHER|UNKN|River/Stream|None|LCNF3035584522|Lost Creek @ 267|9950
21FLLEON|LEON|30 19|42.276|84 29 38.004|OTHER|UNKN|River/Stream|None|LCNF3032884493|Lost Creek @ FR367|9950
21FLLEON|LEON|30 18|47.9999|84 23 35.9988|OTHER|UNKN|River/Stream|None|LCNF3031384393|Fisher Creek below Springhill Rd|8890
21FLLEON|LEON|30 24|14.6459|84 18 28.6798|OTHER|UNKN|River/Stream|None|LCLM3040484308|Munson Slough @ Springhill Rd|80700
21FLLEON|LEON|30 24|46.35|84 19 47.9158|OTHER|UNKN|River/Stream|None|LCSM3041284330|West Drainage Ditch @ Lake Bradford Rd|80700
21FLLEON|LEON|30 26|52.584|84 21 44.244|OTHER|UNKN|River/Stream|None|LCLM3044784362|Gum Swamp Station 3 on Gum Road|80700
21FLLEON|LEON|30 26|42.288|84 21 11.16|OTHER|UNKN|Lake|None|LCLM3044584333|Gum Swamp Station 4 below dam at Gum Swamp|80700
21FLLEON|LEON|30 24|25.772|84 36 37.386|OTHER|UNKN|Lake|None|LCOC3040784610|Lake Talquin (Ben Stoutamire Boat Landing)|12970
21FLLEON|LEON|30 37|1.6324|84 15 32.616|OTHER|UNKN|Lake|None|LCLI3061784259|Lake Iamonia (Kraynak Dock)|4420
21FLLEON|LEON|30 24|13.1807|84 18 28.4184|OTHER|UNKN|Lake|None|LCLM3040384307|Lake Henrietta 1|80700
21FLLEON|LEON|30 24|5.5757|84 18 24.2352|OTHER|UNKN|Lake|None|LCLM3040184306|Lake Henrietta 2|80700
21FLLEON|LEON|30 23|42.4889|84 18 34.0956|OTHER|UNKN|Lake|None|LCLM3039584309|Lake Henrietta 3|80700
21FLLEON|LEON|30 23|27.0074|84 18 45.7452|OTHER|UNKN|Lake|None|LCLM3039084312|Lake Henrietta 4|80700
21FLLEON|LEON|30 26|54.06|84 12 36.972|OTHER|UNKN|River/Stream|None|LCLL3048484210|Lafayette Crk at RR|7560
21FLLEON|LEON|30 27|22.3178|84 13 20.8092|OTHER|UNKN|River/Stream|None|LCLL3045684222|NE Ditch/weems Rd|7560
21FLLEON|LEON|30 19|33.42|84 8 52.476|OTHER|UNKN|River/Stream|None|LCSM3032684147|Chicken branch @ Old Plank|9710
21FLLEON|LEON|30 17|7.044|84 8 59.1|OTHER|UNKN|River/Stream|None|LCSM3028584149|St. Marks @ Natural Bridge Rd North side|7930
21FLLEON|LEON|30 22|10.308|84 4 58.584|OTHER|UNKN|River/Stream|None|LCSM3036984082|Willow Creek @ Tram downstream|79300
21FLLEON|LEON|30 19|.8458|84 7 58.9379|OTHER|UNKN|River/Stream|None|LCSM3031684133|St Marks River Below Horn Springs|79300
21FLLEON|LEON|30 25|55.128|84 7 4.872|OTHER|UNKN|River/Stream|None|LCLL3043184118|Unnamed Creek @ Chairs Road|7560
21FLLEON|LEON|30 25|15.852|84 7 36.444|OTHER|UNKN|River/Stream|None|LCLL3042184126|Unnamed Creek 1 @ 27 East|7560
21FLLEON|LEON|30 25|14.232|84 7 59.268|OTHER|UNKN|River/Stream|None|LCLL3042084133|Unnamed Creek 2 @ 27 West|7560
21FLLEON|LEON|30 25|18.228|84 9 55.89|OTHER|UNKN|River/Stream|None|LCLL3042184165|Unnamed Creek 3 @ 27 West|9190
21FLLEON|LEON|30 25|31.152|84 10 43.284|OTHER|UNKN|River/Stream|None|LCLL3042584178|Unnamed Creek 4 @ 27 West|9190
21FLLEON|LEON|30 25|44.868|84 12 14.004|OTHER|UNKN|River/Stream|None|LCLL3042984203|Unnamed Creek 5 @ 27 West|7560

```

5e. View selected stations on a map. After selecting the stations of interest as described in option 5a, click the **View Station from Map** button. A map will appear with selected stations denoted as black and yellow disks with a blue and red circle.

The screenshot shows the MapDirect: STORET web application interface. The main map area displays a satellite view of a region with several stations marked by black and yellow disks with blue and red circles. The map includes a scale bar and a scale of 1:30,404 (8,043 meters per pixel). The 'Selection Results' table at the bottom shows the following data:

Rec#	Links	Station Key	Station Nbr	Organization Id	Station Id	Station Name
1		476000000000057	57	21FLLEON	LCLM3037584313	Munson Slough 1 above Lake
2		476000000000058	58	21FLLEON	LCLM3036484301	Munson Slough 2 below dam

II. How to Search and Download Result Information

You may enter the result retrieval system using one of the two options below:

- (a) Select **Water Data** from the STORET HOME screen OR
- (b) Complete a result query from an existing station query using the instructions above (5c).

Click here to begin a Results retrieval

» [Home](#)
» [DEP STORET](#)
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» [Stations](#)
» [Search by Map](#)
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» [Web Links](#)
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Stations: This allows you to query the stations dataset by one or more of seven specific fields. The result set that is generated is a list of stations that meet the criteria in the query. This result set can be downloaded as a text file; it can be further queried for analytical information collected at the selected stations; or it can be displayed on a map.

Stations By Map: This allows you to query the stations dataset by a physical area (county, city, zip code, WBID, etc.). The result set that is generated is a map display of stations that are located within the selected area. The mapping feature provides a number of standard tools for zooming, panning, extracting, and querying the information provided on the map. In addition, the result set can be further queried by using the Select feature on the left hand side of the screen.

Water Data: This allows you to query the analytical datasets by Organization ID, Characteristic, and Activity Date. The result set that is generated is a list of analytical results that meet the criteria in the query. This result set can be downloaded as a text file, or selections from this result set can be highlighted on the map display.

The [Help Page](#) explains how to navigate through this site. If you have any questions on how to use the features of this site or if you have any suggestions for improvements, please contact one of [Florida STORET staff](#).

The Florida STORET retrieval refers to each Data Provider Organization by its Org_ID (generally an acronym preceded by "21FLxxx"). If you are unsure of the agency whose data you are searching, you can view a crosswalk of Org_IDs with their full names [here](#).

Last updated: June 08, 2005

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Local intranet

Once in this search Water Data screen, three sets of options are listed to create a personalized water data query: (1) Query Options, (2) Display Options, and (3) Sort Options. We will discuss these options one at a time.

The screenshot shows the Florida Department of Environmental Protection's Water Data search interface. The page is titled "Search Water Data" and includes a search bar at the top. Below the search bar, there are three main sections: "Query Options", "Display Options", and "Sort Options".

Query Options: This section includes dropdown menus for "Org ID" (set to "ALL") and "Group" (set to "ALL"). Below these are several characteristics listed in a scrollable box: 1,1-Dichloroethylene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), 1,2-Dichlorobenzene, and 1,3-Dichlorobenzene. There is also a "Selected Characteristics" field and an "Activity Date Range" dropdown (set to Jul 14, 2005 to Jul 14, 2006).

Display Options: This section contains a grid of checkboxes for various data fields, all of which are checked. The fields include: Org ID, Station ID, Activity Date, Activity Type, Activity Category, Activity Depth, Relative Depth, Characteristic, Result Value, Result Comment, Analysis Date, Procedure Name, Minimum Detection Limit, Practical Quantitation Limit, Sample Fraction, Value Qualifier, and Data Source.

Sort Options: This section includes dropdown menus for "First Sort by" and "Second Sort by" (both set to "SELECT SORT OPTION") and radio buttons for "Ascending" and "Descending" sorting.

A "Submit Query" button is located at the bottom of the form. The page footer includes the Florida Department of Environmental Protection logo, contact information, and a copyright notice for 2004.

Query Options

Query Options allow the user to condense their water data query according to the following parameters: Organization, Characteristic Group, Individual Characteristics, and Activity Date.

ORG ID: All organizations may be included in a water data query by selecting **ALL** under the organization drop down menu. Otherwise, select the organization of interest to proceed. This application has the functionality to select one or all organizations. If several organizations are of interest, they should be queried individually.

Group: Under Group you will find some commonly searched sets of Characteristics including: Biological, Field Msr/Obs, Metals/Non-metals, Nutrients, and Pesticides. Individual Characteristics may be added to

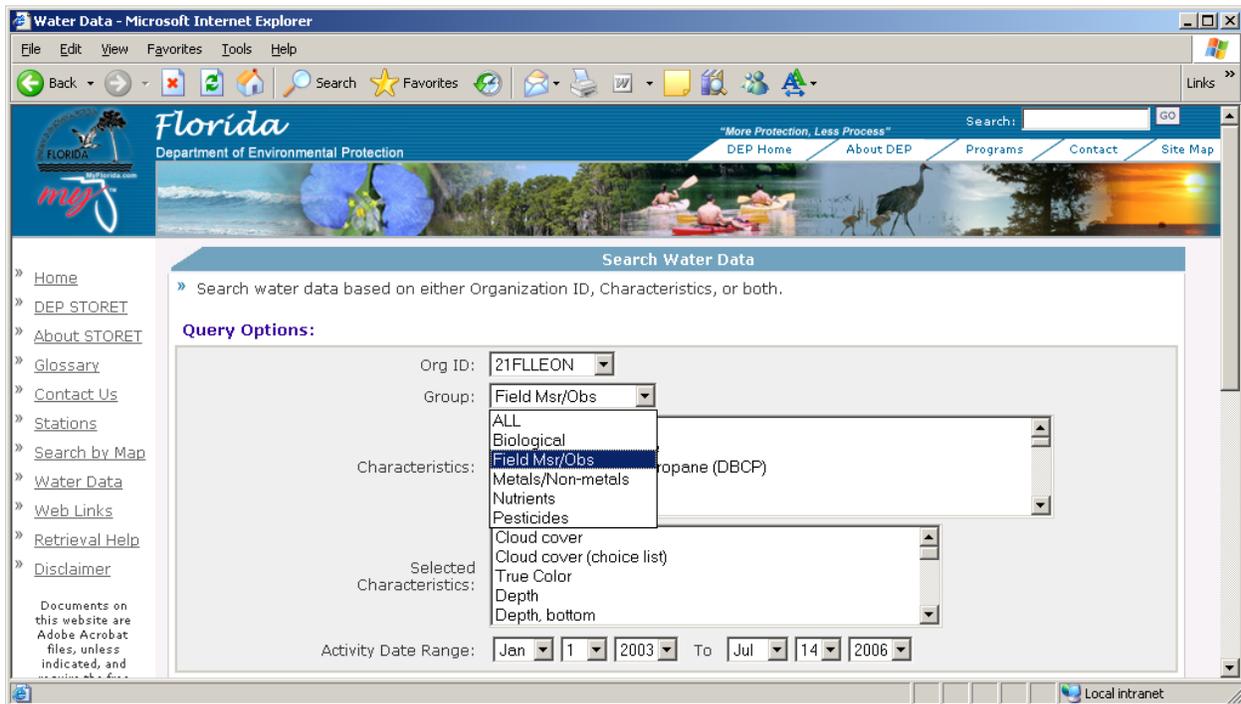
or removed from a group once selected. Hold the **CTRL** key down in order to select Characteristics to be added.

Characteristic: Any number of characteristics can be included in a water data query. If no characteristics are selected, *all* characteristics will be retrieved by default. Hold the **CTRL** key down in order to select more than one characteristic.

Date Range: The date range option will retrieve results that were sampled in between the dates provided. The application defaults to dates within the last year using the current date as the endpoint.

Below is an example of how the options discussed thus far could be used to query results within Florida STORET. This query will select all results from 21FLLEON for all characteristics included in the “Field Msr/Obs” Group. Moreover, the query will only select these results between January 1, 2003 and July 14, 2006.

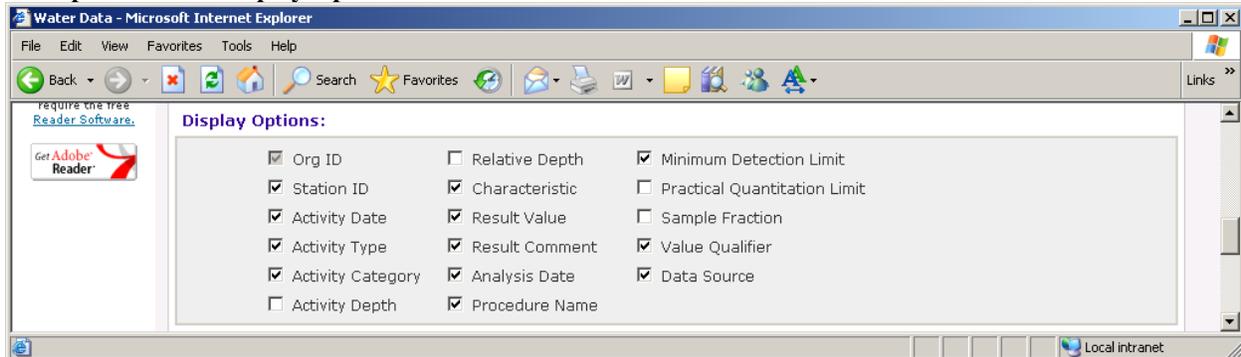
Example 6: Result Query Options



Display Options

Display Options allow the user to specify which columns should be included in the final query. By default, all columns will be selected. If a particular column is not of interest, click within the respective box to the left of the field name to remove the check mark. This action will remove the field from the results retrieval. In Example 7 below, Org ID, Station ID, Activity Date, Activity Type, Activity Category, Characteristic, Result Value, Result Comment, Analysis Date, Procedure Name, Minimum Detection Limit, Value Qualifier, and Data Source will be retrieved. Activity Depth, Relative Depth, Practical Quantitation Limit, and Sample Fraction have been removed from this query. Notice that Org ID is a mandatory field in all retrievals.

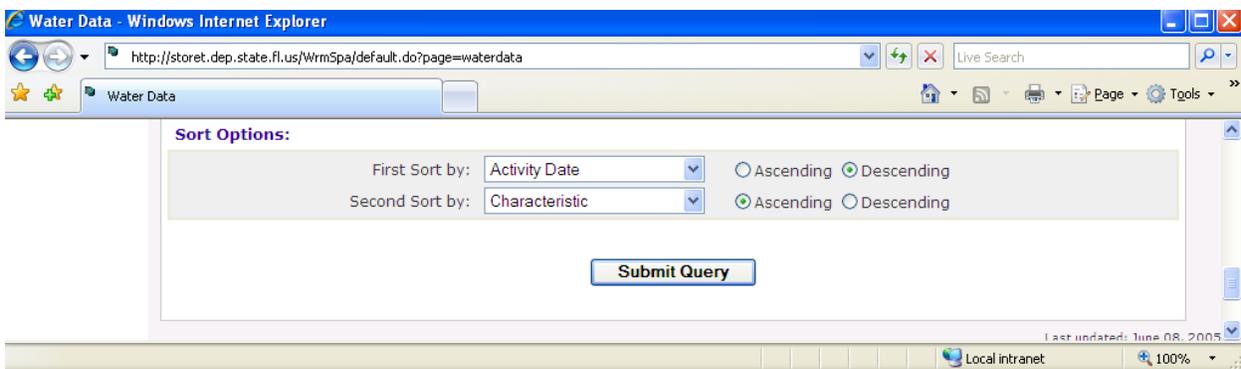
Example 7: Result Display Options



Sort Options

All queries can be sorted according to Activity Category, Activity Date, Activity Depth, Activity Type, Analysis Date, Characteristic, Data Source, Min Detection Limit, Organization ID, Practical Quantitation Limit, Procedure Name, Relative Depth, Result Comment, Result Value, Sample Fraction, Station ID, or Value Qualifier. In Example 8 below, this query will sort water data according to Activity Date (in descending order) first. Within each date, all water data results will be sorted by Characteristic. The user can indicate a preference of Ascending or Descending order.

Example 8: Result Sort Options



Submit Query

Once the user is satisfied with elected query options, the **SUBMIT QUERY** button must be selected in order to retrieve desired records. A new browser will appear with query results.

Submit Query

Example 9: Result Query Output

Further actions can be performed by using the options at the bottom of the result query page. See details below.

<input type="checkbox"/>	Org ID	Station ID	Act Date	Act Type	Act Category	Characteristic	Value	Units	Analysis Date	Procedure Name	Comment	MDL	MDL Units	VO	Data Source
<input type="checkbox"/>	21FLLLEON	LCLM3037584313	Jul-21-2005 12:20:00	Sample	Routine Sample	True Color	60	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3036484301	Jul-21-2005 11:54:00	Sample	Routine Sample	Total Suspended Solids (T...	6.0	mg/l	2005-07-28	160.2		3.1	mg/l		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3036484301	Jul-21-2005 11:54:00	Sample	Routine Sample	True Color	60	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3036484301	Jul-21-2005 11:54:00	Sample	Routine Sample	Turbidity	4.80	NTU	2005-07-22	180.1		0.02	NTU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3044784362	Jul-20-2005 12:30:00	Sample	Routine Sample	Total Suspended Solids (T...	3.1	mg/l	2005-07-26	160.2	**U**	3.1	mg/l	U	FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3044784362	Jul-20-2005 12:30:00	Sample	Routine Sample	True Color	60	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3044584353	Jul-20-2005 12:30:00	Sample	Routine Sample	Turbidity	51	NTU	2005-07-21	180.1		0.02	NTU		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3044784362	Jul-20-2005 12:15:00	Sample	Routine Sample	Total Suspended Solids (T...	6.0	mg/l	2005-07-26	160.2		3.1	mg/l		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3044784362	Jul-20-2005 12:15:00	Sample	Routine Sample	Turbidity			2005-07-21	180.1		0.02	NTU		FLASTORET
<input checked="" type="checkbox"/>	21FLLLEON	LCLM3044784362	Jul-20-2005 12:15:00	Sample	Routine Sample	True Color	60	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3046284370	Jul-20-2005 11:23:00	Sample	Routine Sample	Total Suspended Solids (T...	7.0	mg/l	2005-07-26	160.2		3.1	mg/l		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3046284370	Jul-20-2005 11:23:00	Sample	Routine Sample	Turbidity	4.35	NTU	2005-07-21	180.1		0.02	NTU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3046284370	Jul-20-2005 11:23:00	Sample	Routine Sample	True Color	100	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3047084370	Jul-20-2005 10:59:00	Sample	Routine Sample	Total Suspended Solids (T...	3.1	mg/l	2005-07-26	160.2	**U**	3.1	mg/l	U	FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3047084370	Jul-20-2005 10:59:00	Sample	Routine Sample	Turbidity	3.40	NTU	2005-07-21	180.1		0.02	NTU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCLM3047084370	Jul-20-2005 10:59:00	Sample	Routine Sample	True Color	150	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCBS3050184080	Jul-20-2005 10:04:00	Sample	Routine Sample	True Color	50	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCBS3050184080	Jul-20-2005 10:04:00	Sample	Routine Sample	Turbidity	6.58	NTU	2005-07-21	180.1		0.02	NTU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCBS3047484057	Jul-20-2005 09:35:00	Sample	Routine Sample	True Color	50	PCU	2005-07-22	110.2		0.00000	PCU		FLASTORET
<input type="checkbox"/>	21FLLLEON	LCBS3047484057	Jul-20-2005 09:35:00	Sample	Routine Sample	Turbidity	4.04	NTU	2005-07-21	180.1		0.02	NTU		FLASTORET

Page: 2

BACK NEXT

Search Selected Station View Station from Map

Click to download as text file

9a: Selecting stations for further investigation from the result query page. From the result query screen, some or all stations from results of interest can be selected for further investigation. In order to select all stations in a given page, double click in the box next to ORG_ID. This action will produce check marks for all results on that page with that station. To select one or more stations of interest, simply click one time in the empty box to the left of that station(s). Notice for this example, Stations LCLM3036484301 and LCLM3044784362 have been selected.

9b: Viewing full Characteristic names. Because of the numerous retrieval options, larger Characteristic names may not always fit on the page. The entire name can be seen by moving the mouse over the name and pausing briefly.

9c: View additional pages. A maximum of twenty (20) results will appear on a given page. Select the

NEXT

button, to view additional pages. To move to previous pages, select the

BACK

button.

9d: Search stations based on results. After selecting the station results of interest per instructions given in **9a** above, click the **Search Selected Station** button. A new result query browser will appear listing only the stations associated with the results chosen. Recall that option **9a** illustrated the selection of Stations LCLM3036484301 and LCLM3044784362. The example below shows the stations selected for more specific querying.

The screenshot shows a Microsoft Internet Explorer browser window displaying the Florida Department of Environmental Protection website. The page title is "Water Data - Microsoft Internet Explorer". The website header includes the Florida Department of Environmental Protection logo and navigation links: DEP Home, About DEP, Programs, Contact, and Site Map. The main content area is titled "Search Water Data" and contains the following information:

» Search water data based on selected stations from station report.

List of Selected Stations:

Org ID	Station ID	Station Name
21FLEON	LCLM3036484301	Munson Slough 2 below dam
21FLEON	LCLM3044784362	Gum Swamp Station 3 on Gum Road

Query Options:

Group:

Characteristics:

Selected Characteristics:

Activity Date Range: To

9e: View selected results on a map. After selecting the station results of interest as described in option 9a (which were associated with stations LCLM3036484301 and LCLM3044784362 in above example), click the **View Station from Map** button. A map will appear with selected stations denoted as yellow stars.

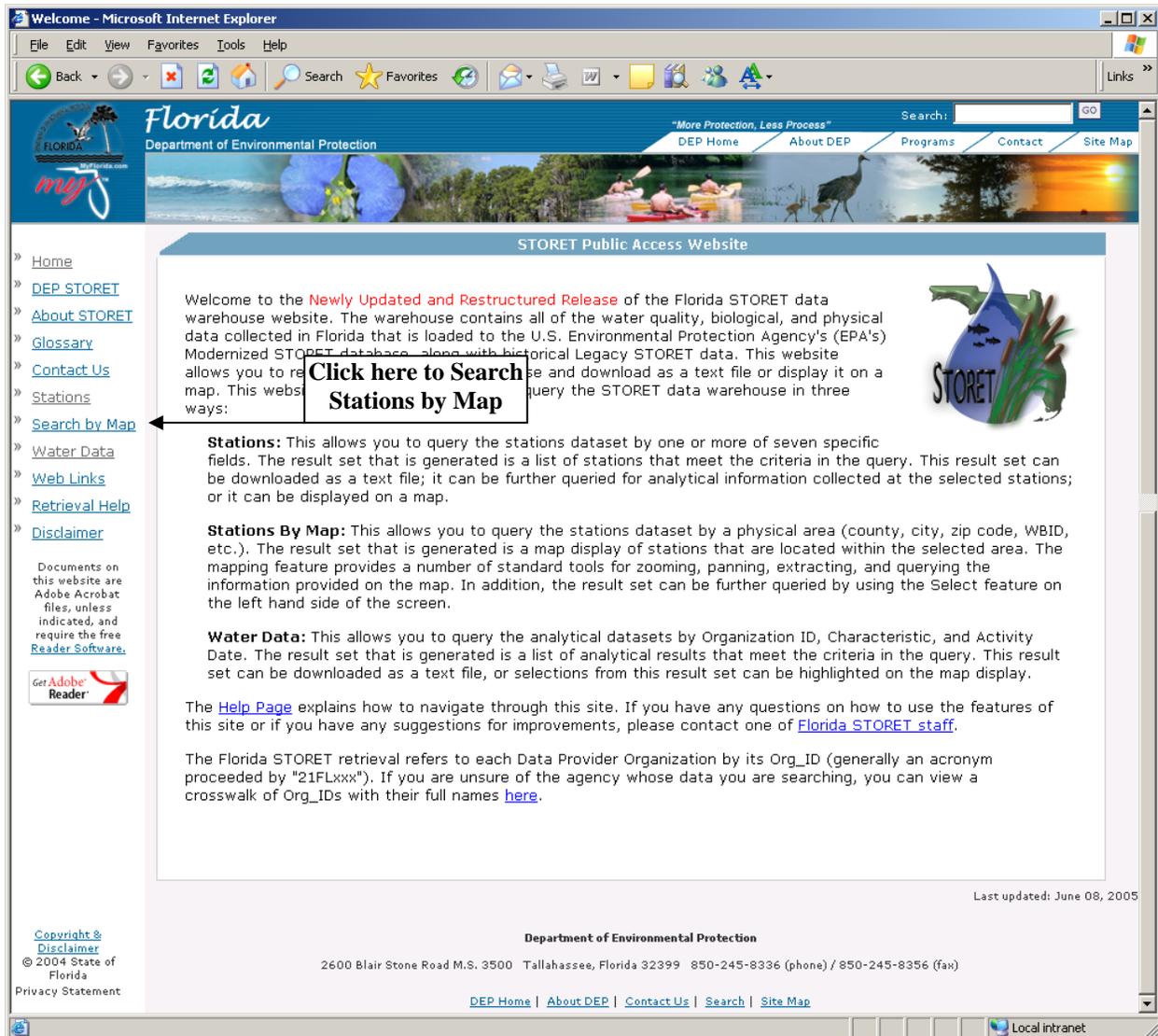
9f: Download results to a text file and import into Excel. See instructions for downloading a text file under 5d above. As before, when a large data set is being downloaded, user may experience some delay.

The screenshot displays the MapDirect: STORET web application. The main map area shows a satellite view of Tallahassee, Florida, with numerous monitoring stations marked as yellow stars. Two specific stations are highlighted with white callout boxes: 'Station LCLM3044784362' and 'Station LCLM3036484301'. The left sidebar contains navigation and help information. The bottom panel shows the 'Selection Results' for the selected stations.

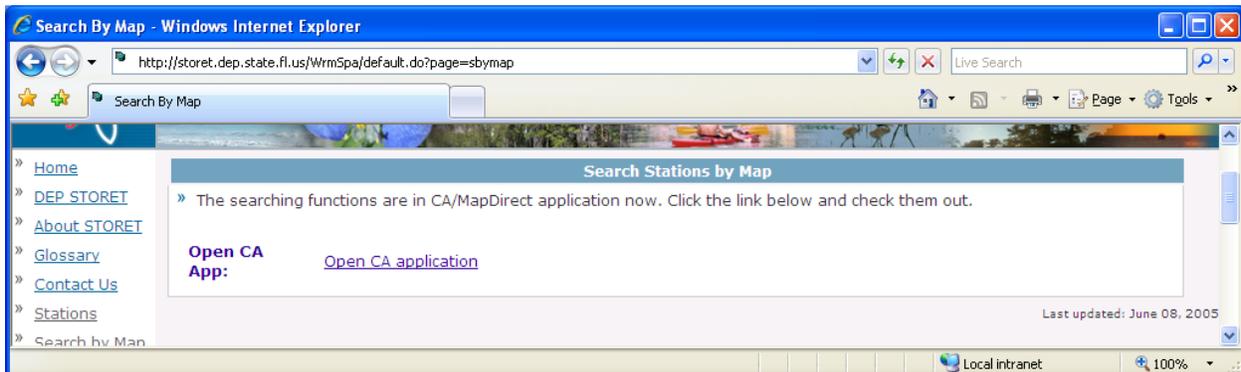
Rec#	Links	Station Key	Station Nbr	Organization Id	Station Id	Station Name
1		476000000000058	58	21FLEON	LCLM3036484301	Munson Slough 2 below dam
2		476000000000063	63	21FLEON	LCLM3044784362	Gum Swamp Station 3 on Gum

III. How to Search Stations by Map

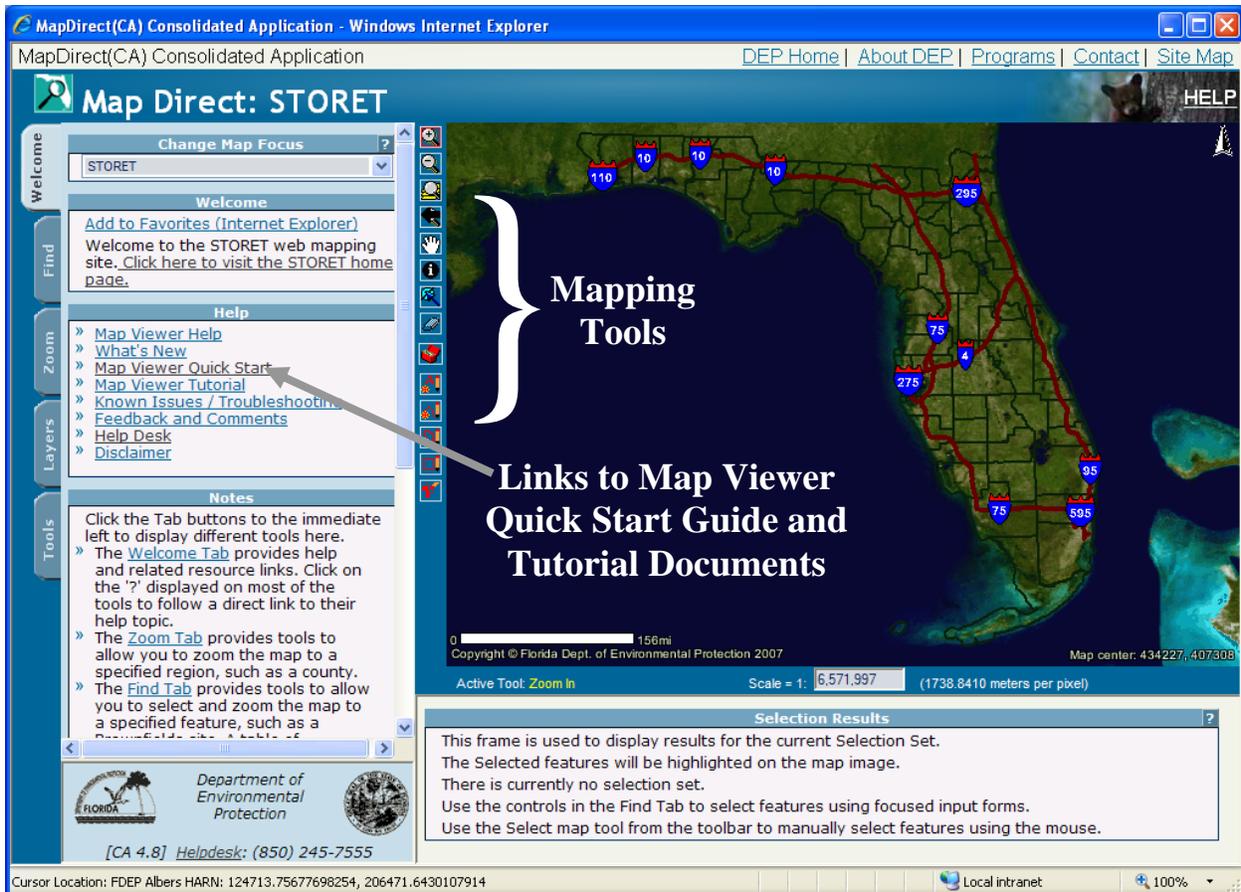
You may enter the station retrieval by map system by selecting the [Search by Map](#) link on the left-hand side of the Florida STORET HOME screen.



Then click the [Open CA application](#) link.



On the left hand side of the screen, notice five menu options (Welcome, Find, Zoom, Layers, and Tools). Each of these options are discussed in the Map Viewer Quick Start link under the welcome tab. This document also discusses how to use various mapping tools in the Consolidated Application (CA). The Map Viewer Tutorial link provides a general overview of how to use CA. Although an example of how to view a station using this application will be provided below, it is recommended that you review these help documents in order to get a comprehensive understanding of this application.



Click on the zoom tab and determine which of the following zoom to option is preferred: county, city, zip code, township/range/section, coordinate (address, latitude/longitude, albers, stateplane, UTM), Waterbody ID, HUC Basin, TMDL Basin, DEP District, or Water Management District (WMD).

Example 10

The following options are utilized using a drop down menu of allowable values: county, city, township/range/section, Waterbody ID, HUC Basin, TMDL Basin, DEP District, and Water Management District (WMD). For example, if Waterbody ID 1006A is of interest, click on the down arrow directly below Zoom to Waterbody ID, scroll down to 1006A, then click Zoom.

The screenshot displays the MapDirect: STORET application interface. The left sidebar contains a vertical menu with tabs: Welcome, Find, Zoom, Layers, and Tools. The 'Zoom' tab is active, showing several zoom options, each with a dropdown menu and a 'Zoom' button:

- Zoom To Lat/Lon
- Zoom To Albers
- Zoom To Stateplane
- Zoom To UTM
- Zoom to Waterbody Id: dropdown menu shows '1006A', with a callout box pointing to the dropdown arrow. The callout box contains the text: "Click the down arrow, select Waterbody id of interest and then click Zoom."
- Zoom to HUC Basin: dropdown menu shows 'Select HUC Basin'
- Zoom to TMDL Basin: dropdown menu shows 'Pensacola'
- Zoom to DEP District: dropdown menu shows 'Select DEP District'
- Zoom to WMD District: dropdown menu shows 'Select WMD District'

The main map area shows a satellite view of a waterbody. A scale bar at the bottom of the map indicates 0 to 0.1 miles. The map center coordinates are 362867, 702969. The active tool is 'Zoom In' with a scale of 1:4,032 (1.0668 meters per pixel).

At the bottom of the interface, there is a 'Selection Results' panel with the following text:

Selection Results

This frame is used to display results for the current Selection Set. The Selected features will be highlighted on the map image. There is currently no selection set. Use the controls in the Find Tab to select features using focused input forms. Use the Select map tool from the toolbar to manually select features using the mouse.

The footer of the application includes the Florida Department of Environmental Protection logo and contact information: [CA 4.8] Helpdesk: (850) 245-7555.

Example 11

If the specific zip code or coordinate option (address, latitude/longitude, albers, stateplane, UTM) is known, it must be entered in respective input box. For example, if zip code 32317 is of interest, enter that value in the box below Zoom to Zip Code and click Zoom.

The screenshot displays the 'MapDirect: STORET' application within a Windows Internet Explorer browser. The interface is divided into several sections:

- Navigation and Search:** A vertical sidebar on the left contains tabs for 'Welcome', 'Find', 'Zoom', 'Layers', and 'Tools'. The 'Zoom' tab is active, showing search options: 'Zoom to County', 'Zoom to City', 'Zoom to Zip Code' (with '32317' entered), 'Zoom to Township/Range/Section', 'Zoom To Coordinate', 'Zoom To Address', 'Zoom To Lat/Lon', 'Zoom To Albers', and 'Zoom To Stateplane'. Each option has a 'Zoom' button.
- Map:** The main area shows a satellite map of Tallahassee, Florida, with numerous blue and yellow markers. Major roads like I-10, I-90, and US-90 are visible. A scale bar at the bottom of the map indicates 3.11 miles. Copyright information for the Florida Dept. of Environmental Protection (2007) and map center coordinates (389518, 717864) are also present.
- Selection Results:** A panel at the bottom right, titled 'Selection Results', contains the following text: 'This frame is used to display results for the current Selection Set. The Selected features will be highlighted on the map image. There is currently no selection set. Use the controls in the Find Tab to select features using focused input forms. Use the Select map tool from the toolbar to manually select features using the mouse.'
- Footer:** The bottom of the browser window shows the cursor location: 'FDEP Albers HARN: 378935.25075898337, 717551.3802774744'. The system tray includes 'Local Intranet' and a 100% zoom level.

Example 12

Building off of the example above, you can zoom to a specific section by clicking the Zoom In tool (🔍) then drawing a red box around the area of interest.

The screenshot displays the MapDirect: STORET application within a Windows Internet Explorer browser window. The browser title bar reads "MapDirect(CA) Consolidated Application - Windows Internet Explorer". The address bar shows "MapDirect(CA) Consolidated Application" with navigation links for "DEP Home", "About DEP", "Programs", "Contact", and "Site Map".

The application interface is divided into several sections:

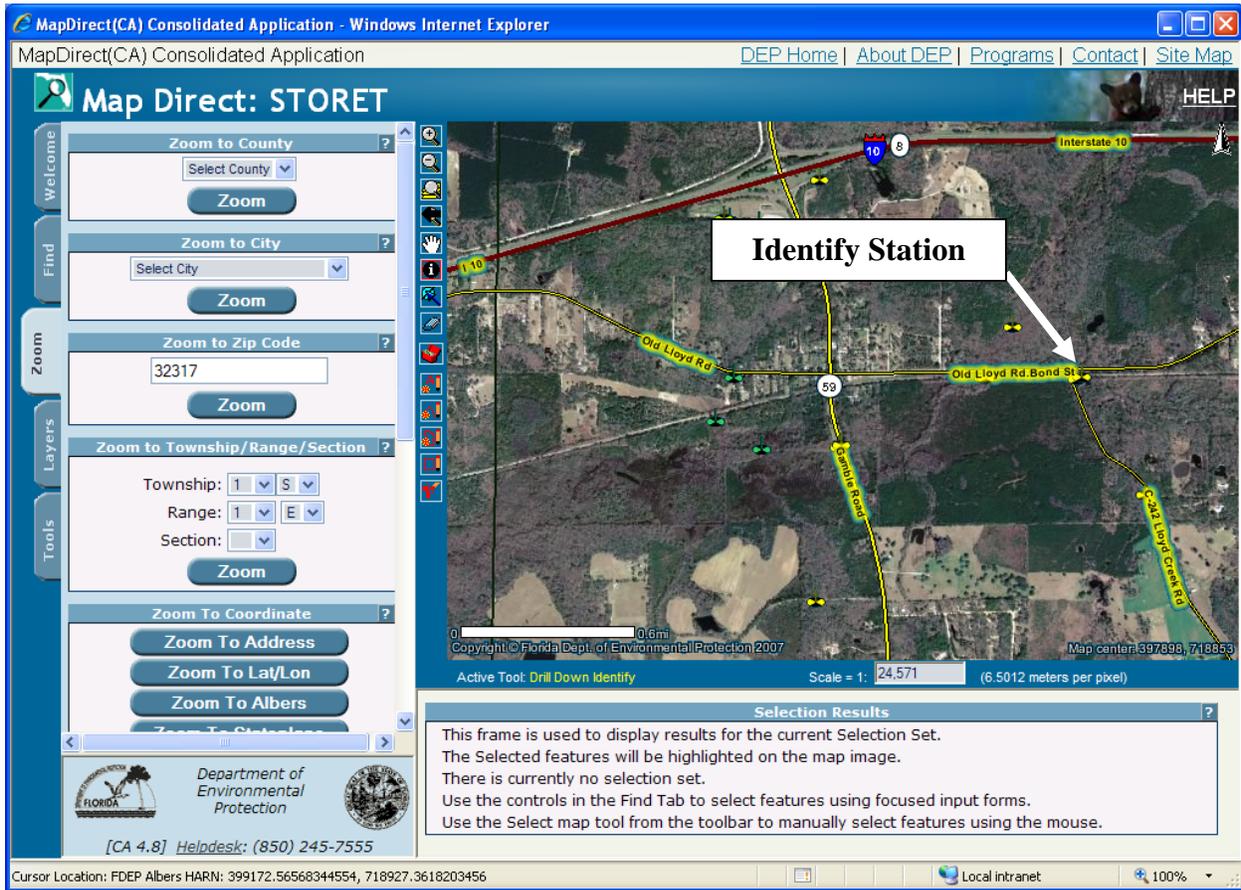
- Left Panel (Tools):** Contains navigation and search options:
 - Welcome:** "Zoom to County" with a "Select County" dropdown and a "Zoom" button.
 - Find:** "Zoom to City" with a "Select City" dropdown and a "Zoom" button.
 - Zoom:** "Zoom to Zip Code" with a text input field containing "32317" and a "Zoom" button.
 - Layers:** "Zoom to Township/Range/Section" with dropdowns for Township (1, S), Range (1, E), and Section, and a "Zoom" button.
 - Tools:** "Zoom To Coordinate", "Zoom To Address", "Zoom To Lat/Lon", "Zoom To Albers", and "Zoom To Stateplane" buttons.
- Main Map Area:** Shows a satellite-style map of Tallahassee, Florida. A red rectangular box highlights a specific area in the northeast, labeled "Area of interest" with a white callout box and an arrow. The map includes road networks (Interstates 10, 90, 8, 59, 20, 27) and numerous blue and yellow markers. The map center coordinates are 389518, 717864. The scale is 1:131,146 (34,699.1 meters per pixel). The active tool is "Zoom In".
- Bottom Panel (Selection Results):** A text box with the following content:

Selection Results

This frame is used to display results for the current Selection Set. The Selected features will be highlighted on the map image. There is currently no selection set. Use the controls in the Find Tab to select features using focused input forms. Use the Select map tool from the toolbar to manually select features using the mouse.
- Footer:** Includes the Florida Department of Environmental Protection logo, the text "[CA 4.8] Helpdesk: (850) 245-7555", and the cursor location: "FDEP Albers HARN: 399130.15126974665, 717690.1768445587".

Example 13

At any point, you can click on the identify tool (📍) and then click on a station to get specifics of a station.



This action will produce reports on that station including the below output. At this point, a station can be investigated for specific results. Refer back to section 5c for instructions.

