

Generalized Water Information System (GWIS) Database Utilities User's Manual

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
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Introduction

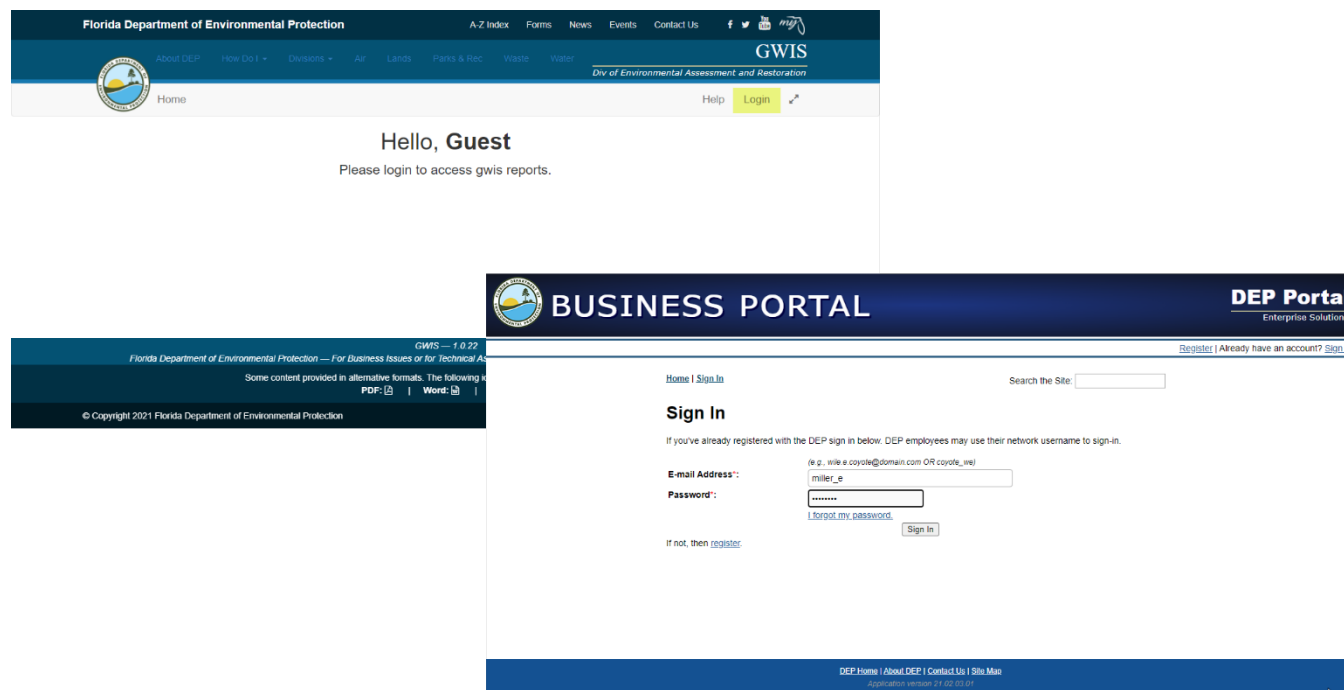
The Florida Department of Environmental Protection's (DEP's) Watershed Monitoring Section (WMS) oversees two statewide water monitoring networks, the Status Network and the Trend Network. In each network, field parameters such as temperature and pH are collected regularly, along with water samples which are analyzed in the laboratory. In the Trend Monitoring Network, the samples are taken from fixed surface and groundwater sites, which allows for an assessment of long-term changes in specific waterbodies and wells. In the Status Monitoring Network, the sampling locations are chosen randomly to provide a statistically valid estimate of statewide water conditions.

Status and Trend site data (including locations, water resource types, and owners' contact information) are stored in an Oracle database called GWIS (Generalized Water Information System). An Internet application, GWIS Database Utilities, allows online access to the database. This manual guides users through the Database Utilities application and explains how to use it for site reconnaissance (recon), entering recon tracking data, and updating station information.

Accessing the Database Utilities Application

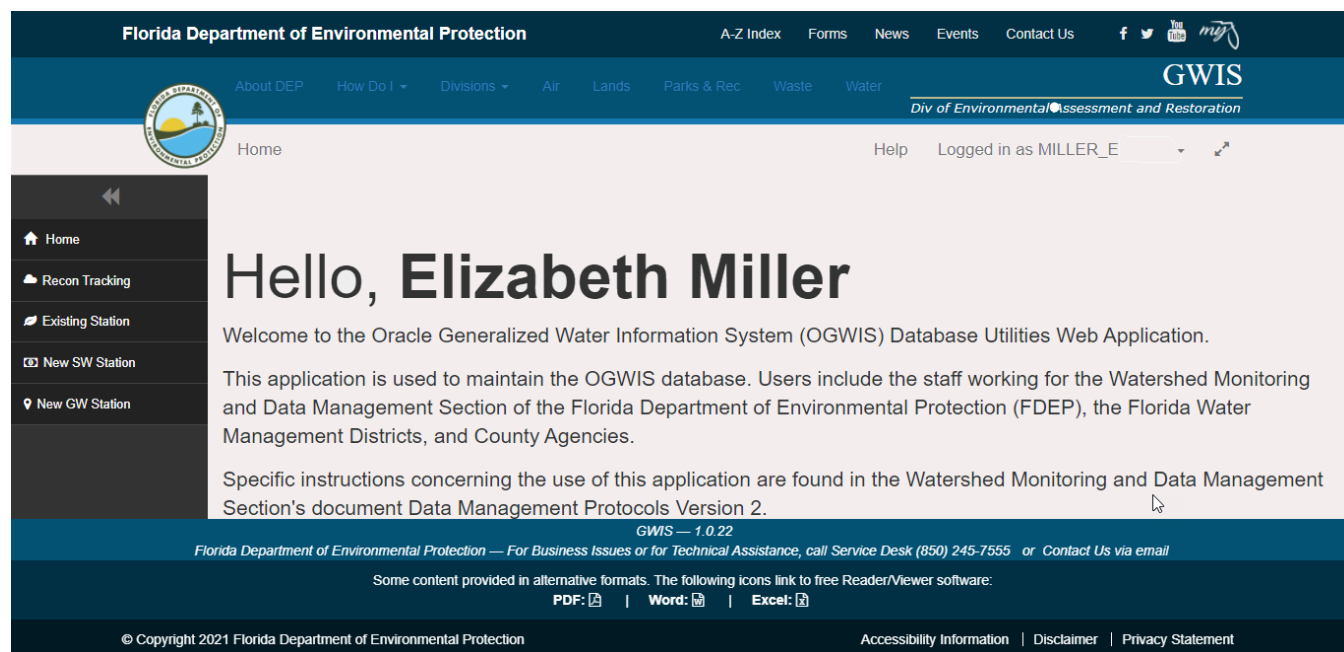
Open Google Chrome and navigate to <https://prodapps.dep.state.fl.us/gwis/>. This application can also be used in Mozilla Firefox and Microsoft Edge, but screenshots and instructions in this document are for Chrome. **DEP employees will log in using the same username and password as their network account (Figure 1).** If the user needs access to make and save edits to information, contact one of the WMS employees with application oversight access (currently Tommy Adams and Jay Silvanima). Clients outside DEP (i.e. contractors) should also contact one of the WMS employees with application oversight access to obtain login credentials. User roles are managed in DepSec as described in the document titled Managing Users and User Access for GWIS Applications July 2022 and is available at \\fldep1\\dear\\WQAP\\Sol_Z\\datamgmt\\Manuals_Instructions\\Managing Users and User Access for GWIS applications-July2022.docx. **Any problems or issues with existing data should be reported to the WMS Data Coordinator or the Data Manager.**

Figure 1. Database Utilities login screen



After login is complete, an introductory screen will appear (**Figure 2**).

Figure 2. Welcome page for the Database Utilities application



Reconning Sampling Sites

Because the Status Network sampling sites are chosen randomly, it is necessary to conduct reconnaissance (“recon” or “reconning”) before collecting samples to ensure that the site is appropriate for sampling. **Recon Tracking** is a feature that allows the user to determine the locations of Status sites, to view aerial imagery and topographic maps, and to enter information on whether the site can be sampled. Please see the Status Network Recon Manual at http://publicfiles.dep.state.fl.us/dear/DEARweb/WMS/Reports_Docs_SOPs/Standard%20Operating%20Procedures/Status%20Network%20Recon%20Manual/WMS-ReconManual.pdf for more guidance on conducting recon.

Begin by clicking **Recon Tracking** in the menu on left side of the screen. This will bring up a page with several drop-down lists (*Figure 3*).

Figure 3. Recon Tracking drop-down menu page

Select the Resource Type, Reporting Unit, Reporting Cycle, and (optional) Site Location Range of interest. These parameters are described below.

Resource Types that are currently sampled are:

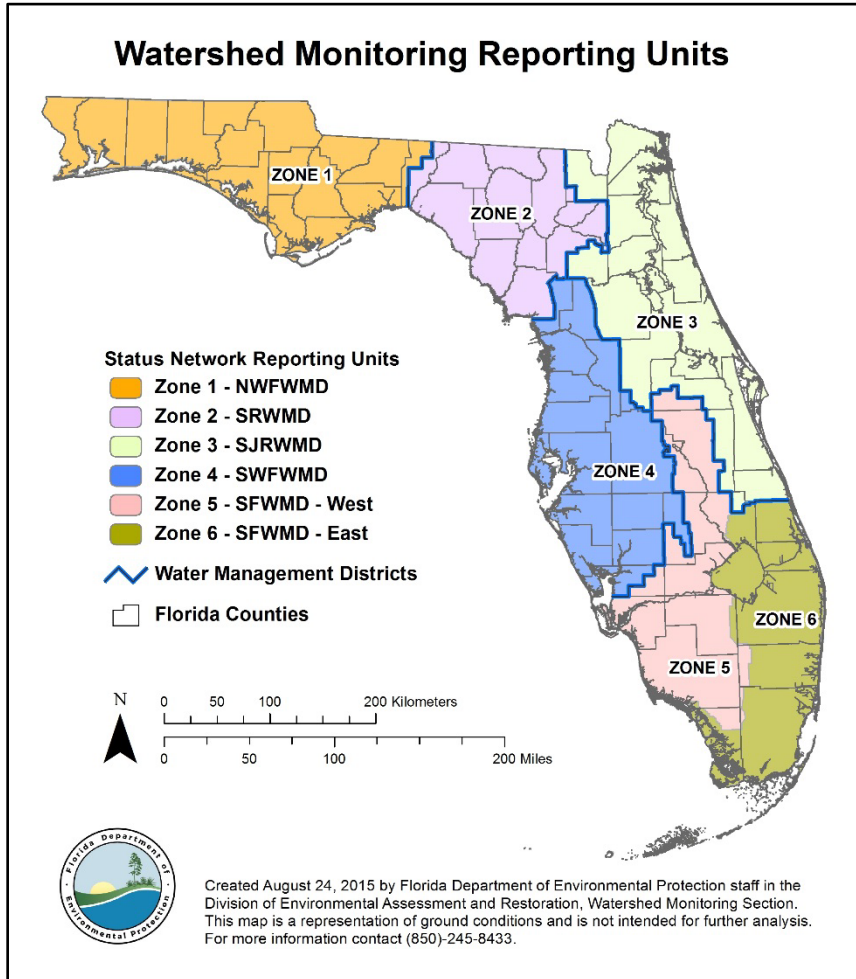
- Unconfined Aquifer
- Confined Aquifer
- Large Lake
- Small Lake
- Large River
- Small Stream
- Canal

Reporting Units are geographical regions of the state (see *Figure 4*). The valid choices are currently:

- Zone 1
- Zone 2
- Zone 3

Zone 4
Zone 5
Zone 6

Figure 4. WMS Reporting Units (zones). The zones are equivalent to the state's five Water Management Districts (WMDs), with South Florida WMD divided into eastern and western zones. NWF = Northwest Florida; SR = Suwannee River; SJR = St. Johns River; SWF = Southwest Florida; and SF = South Florida.



Reporting Cycle refers to the year(s) in which the samples were collected:

Cycle 3: 2009
Cycle 4: 2010
Cycle 5: 2011
Cycle 6: 2012
Cycle 7: 2013
Cycle 8: 2014
Cycle 9: 2015
Cycle 10: 2016
Cycle 11: 2017 (and so on)

NOTE: The WMS adopted an annual Reporting Cycle in 2009. From 2000-2008, the Reporting Cycles lasted 4-5 years each. Cycle 1: 2000-2003 and Cycle 2: 2004-2008 are not accessible in GWIS Recon Tracking.

Site Location Range is an optional input that one may enter if interested in a specific site number. If left blank, all Status sites that match the chosen criteria will be listed (150 for surface water and 200 for

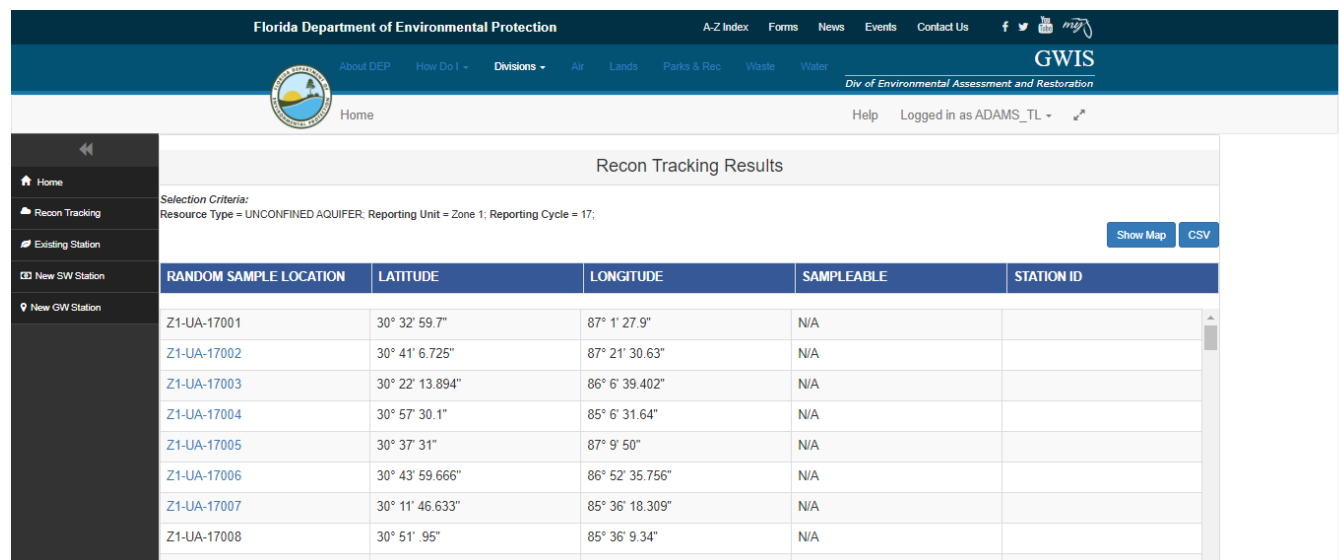
groundwater). Note the instructions in red. If preparing a recon spreadsheet, leave the Site Location Range empty. If creating maps, limit the number of sites to 140 or less. Map Direct cannot map all sites at one time

Click **View Results** to accept choices and begin reconnaissance. To clear choices and start again, click **Reset Form**. There is also the option to export the site information directly to a file. Choose **CSV** to automatically generate a file. The file will appear at the bottom left of the screen and will be saved in the designated folder for Downloads on your computer (**Figure 5**). Clicking on the file will open it, and it can be saved in the desired location.

Figure 5. Location of generated Excel or CSV export file

After clicking **View Results** the list of Status sites corresponding to the chosen inputs will appear with the sample location, latitude and longitude (**Figure 6**). The “Sampleable” column will be populated with “N/A”. This column is updated after the site is reconned. In the example shown below, Resource Type = UNCONFINED AQUIFER, Reporting Unit = Zone 1, and Reporting Cycle = 17 were chosen, and the Site Location Range was left empty. This screen also contains a **CSV** option to save the list of sites to a file in the same manner as the previous screen.

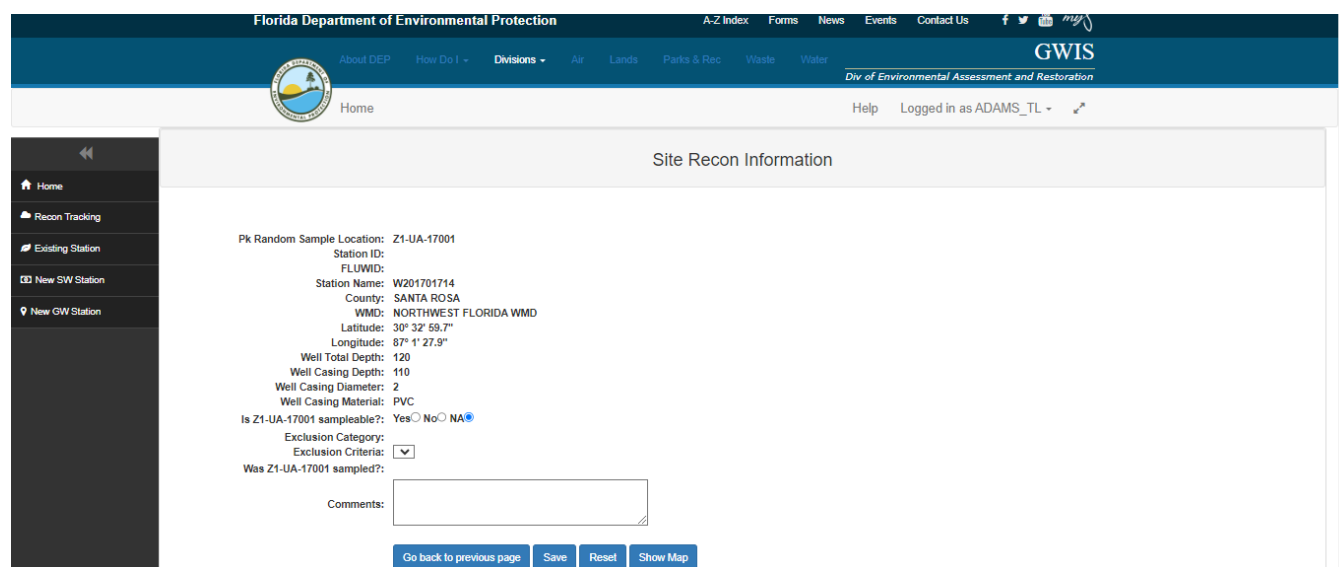
Figure 6. Example list of Status sites to recon



RANDOM SAMPLE LOCATION	LATITUDE	LONGITUDE	SAMPLEABLE	STATION ID
Z1-UA-17001	30° 32' 59.7"	87° 1' 27.9"	N/A	
Z1-UA-17002	30° 41' 6.725"	87° 21' 30.63"	N/A	
Z1-UA-17003	30° 22' 13.894"	86° 6' 39.402"	N/A	
Z1-UA-17004	30° 57' 30.1"	85° 6' 31.64"	N/A	
Z1-UA-17005	30° 37' 31"	87° 9' 50"	N/A	
Z1-UA-17006	30° 43' 59.666"	86° 52' 35.756"	N/A	
Z1-UA-17007	30° 11' 46.633"	85° 36' 18.309"	N/A	
Z1-UA-17008	30° 51' .95"	85° 36' 9.34"	N/A	

Now, click on the **Random Sample Location** to be reconned (e.g., Z1-UA-17001). A screen with extra information about the site will pop up (*Figure 7*).

Figure 7. Example recon tracking page for a specific site (Z1-UA-17001)



Site Recon Information

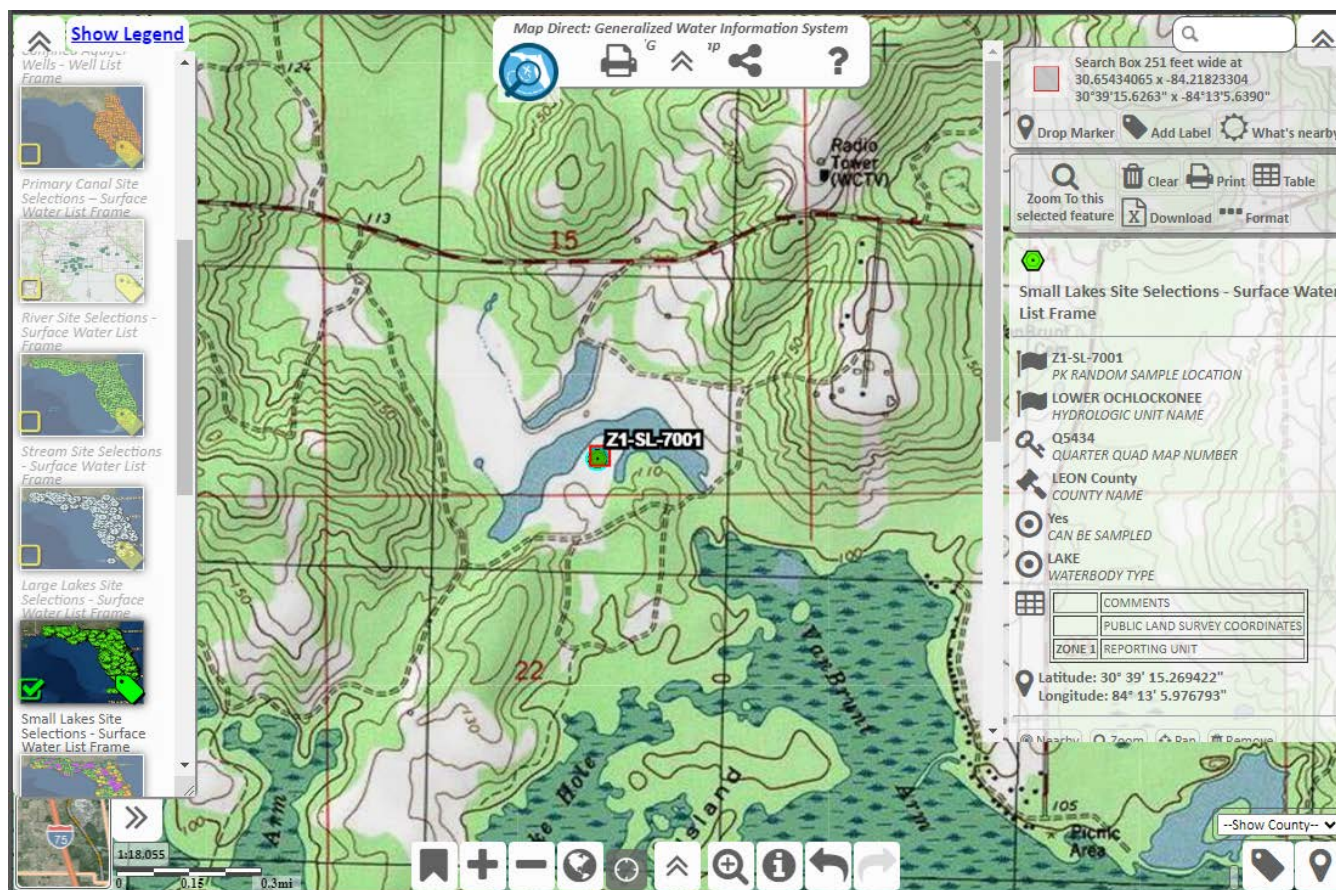
Pk Random Sample Location: Z1-UA-17001
 Station ID: FLUWID:
 Station Name: W201701714
 County: SANTA ROSA
 WMD: NORTHWEST FLORIDA WMD
 Latitude: 30° 32' 59.7"
 Longitude: 87° 1' 27.9"
 Well Total Depth: 120
 Well Casing Depth: 110
 Well Casing Diameter: 2
 Well Casing Material: PVC
 Is Z1-UA-17001 sampleable?: Yes ☐ No ☒ NA 
 Exclusion Category:
 Was Z1-UA-17001 sampled?: ☐
 Comments:

Go back to previous page Save Reset Show Map

To recon using a map of the site, click **Show Map**. This feature opens the Map Direct Consolidated Application, which has many viewing options. For more information on using Map Direct, refer to https://publicfiles.dep.state.fl.us/dear/watershed%20monitoring/info_center_appdata/sampling_training_workshop/mapdirect-handout-Aug2021.pdf. The Map Direct Application defaults to displaying a basic topographic map as the background (base map). The user can change the base map using the

controls at the bottom left of the screen to view the site on top of an aerial photo or no background image. Users can also display a more detailed United States Topographic Map (USA Topo Map) as the base map, or as a map layer using the controls at the top left of the screen. Making the USA Topo Map layer visible is recommended as it provides a first check in determining whether the site is an established/natural reservoir, or if it is manmade. Waterbodies that are manmade should be excluded from sampling. Please refer to the Recon Manual (http://publicfiles.dep.state.fl.us/dear/DEARweb/WMS/Reports_Docs_SOPs/Standard%20Operating%20Procedures/Status%20Network%20Recon%20Manual/WMS-ReconManual.pdf) and Sampling Manual (http://publicfiles.dep.state.fl.us/dear/DEARweb/WMS/Reports_Docs_SOPs/Standard%20Operating%20Procedures/Sampling%20Manuals/WMS-SamplingManual.pdf) for examples of exclusions. **Figure 8** shows an example USA Topo Map image in Map Direct.

Figure 8. Map Direct USA Topo Map image for the site Z1-SL-7001



Take note of the tools on the left side of the screen. These tools allow users to click on and off Data Layers and labels, or search for additional data layers to display. The buttons on the bottom of the map allow users to zoom in/out to assist in determining the exact location, and measure the distance to

other features, such as access roads or potential pollution sources like wastewater treatment plants. Useful tools at the top of the screen include **Help**, **Print to PDF**, and **Map Sharing / Saving**.

Navigation and the icons that appear on the bottom toolbar are explained on the next page. The functions of these can also be accessed by clicking **Help** at the top of the page. The Help menu contains a Map Direct Tutorial and Quick Start guide.

Pan / Zoom using mouse and keyboard (enabled by default): Use the mouse to drag the image up/down or left/right. Zoom in / out by rolling the mouse wheel forward or backward. Zoom in by double clicking on a location or feature on the map, or by holding the shift key and drawing a box using the mouse and left mouse button.



Bookmark tool: Create bookmarks of map views. Return to previously created bookmarks.



Zoom In tool: Magnifies the image.



Zoom Out tool: Increases the map scale (opposite of Zoom In tool).



Zoom to Florida tool: Increases the map scale so that the entire state of Florida is visible.



Zoom to / Track Current Location tool: Displays the user's current location on the map (for use with GPS enabled devices).



Zoom In by Drawing a Box tool: Zooms to a box drawn using the mouse and left mouse button.



Identify tool: Identifies the layer or point.



Go Back tool: Returns to previous map view.



Go Forward tool: Returns to next map view (for use after Go Back tool).



Measure tool: Measures distance and area of lines / polygons drawn by the user.

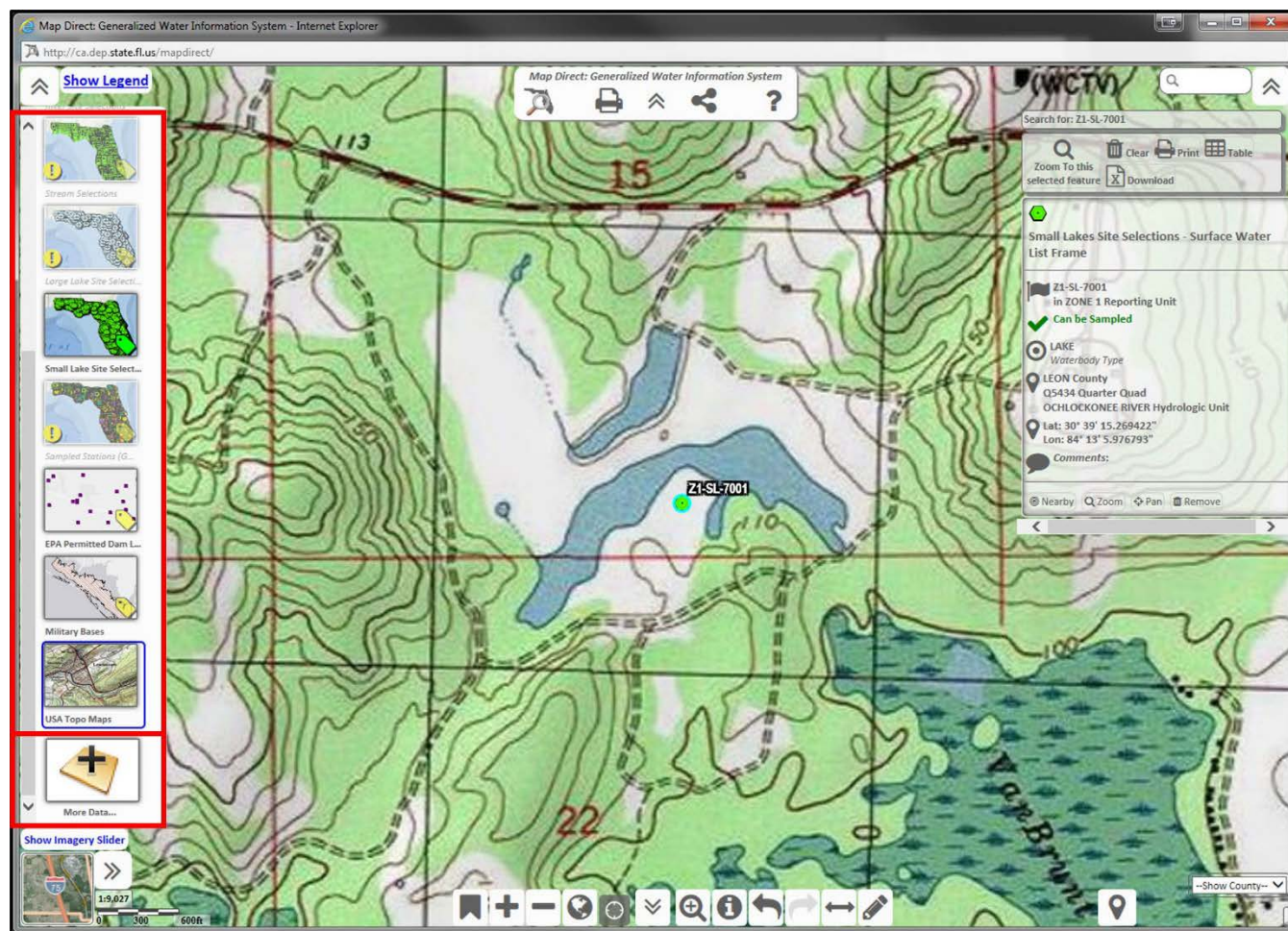


Draw Graphics tool: Allows user to draw shapes and text boxes on map.

Making Layers Visible

Users can control which layers are displayed by clicking the thumbnails in the **Data Layers** list (**Figure 9**). In addition, users may search for a data layer by clicking the **More Data** button. A commonly used layer is **Cadastral Property Appraiser Parcels**. Many of the WMS layers can be found by searching for “WMS”.

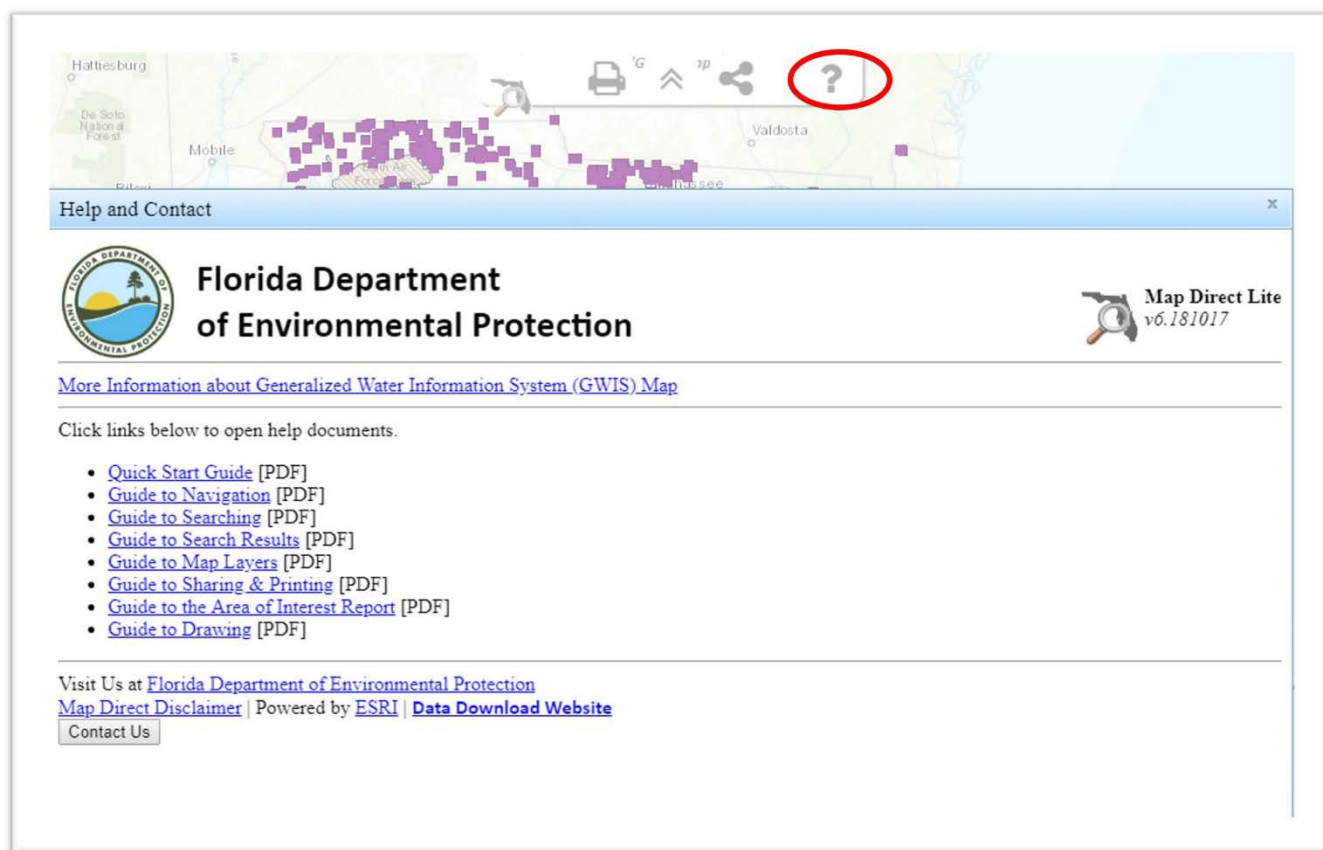
Figure 9. Map Direct Data Layers list and Add Data Layer button. The data layers list and data layer button are enclosed by a red rectangle on the left side of the screen.



Additional Functionality

To fully explore the functionality of Map Direct, click on the **Help** (question mark) icon near the top center of the page (**Figure 10**). The Help icon will open a window that contains Map Direct Tutorials and a Map Direct Quick Start Guide.

Figure 10. Map Direct Help Icon and Help Topics. The help icon is a grey question mark at the top right of the screen and is circled in red.



Entering Recon Information

A. Surface Water

After determining whether the site is sampleable, information can be updated in the Database Utilities application. Until a station is reconnected, the “Is [the site] sampleable?” field is marked “N/A”.

Case 1: Site is Not Sampleable

If the site is not sampleable, click **No (Figure 11)** and the **Exclusion Category** drop-down list will appear. If a site is marked as unsampleable, a reason must be chosen from the **Exclusion Category** drop-down list. After choosing an Exclusion Category, the **Exclusion Criteria** drop-down list will appear. Select the appropriate Exclusion Criteria. The Exclusion Criteria available depend on the Exclusion Category chosen. Refer to **Table 1** for the valid combinations. Please see the WMS [Sampling Manual](#) for the most up-to-date exclusions list.

Figure 11. Example recon tracking page for an unsampleable surface water site. Site Z1-LL-15001 is displayed as an example.

◀

Home

Recon Tracking

Existing Station

New SW Station

New GW Station

Site Recon Information

PK RANDOM SAMPLE LOCATION: Z1-LL-15001

Station ID: NA

Waterbody Name:

County: JEFFERSON

WMD: NORTHWEST FLORIDA WMD

Random Latitude: 30° 37' 5.5738"

Random Longitude: 83° 52' 48.6951"

Is Z1-LL-15001 sampleable?: Yes ☐ No ☒ NA ☐

Exclusion Category: NO PERMISSION FROM OWNER

Exclusion Criteria: UNABLE TO OBTAIN PERMISSION FROM OWNER

Was Z1-LL-15001 sampled?:

Comments:

Table 1. Surface Water Exclusion Criteria and Definitions. This is a two-column table with Exclusion Category in the first column and the associated Exclusion Criteria in the second column.

EXCLUSION CATEGORY	EXCLUSION CRITERIA
DRY	SMALL LAKE OR LARGE LAKE < 1 METER AT DEEPEST POINT
DRY	DRY DURING INDEX PERIOD, INCLUDES SMALL LAKE WATER < 4 HECTARES LARGE LAKE WATER < 10 HECTARES
DRY	STREAM/RIVER/CANAL FLOW POOLED AND DISCONNECTED AT RANDOM LOCATION
DRY	RANDOM LOCATION LESS THAN 10 CM DEEP
NO PERMISSION FROM OWNER	ACCESS DENIED BY PROPERTY OWNER
NO PERMISSION FROM OWNER	UNABLE TO OBTAIN PERMISSION FROM OWNER
OTHERWISE UNSAMPLEABLE	FLOOD CONDITIONS (FLOW OUT OF BANKS) AT STREAM/RIVER/CANAL RANDOM LOCATION
OTHERWISE UNSAMPLEABLE	UNSAFE SAMPLING CONDITIONS
OTHERWISE UNSAMPLEABLE	OPEN WATER IN LAKE LESS THAN 0.1 HECTARE
OTHERWISE UNSAMPLEABLE	LESS THAN 0.5 SQUARE METERS FREE OF ATTACHED VEGETATION AT SAMPLING POINT
UNABLE TO ACCESS	NO OPEN WATER AVAILABLE AT LAKE SAMPLING POINT
UNABLE TO ACCESS	UNABLE TO REACH RANDOM LOCATION WITHIN THREE HOURS FROM ACCESS POINT
UNABLE TO ACCESS	UNABLE TO GET EQUIPMENT TO RANDOM LOCATION (SAMPLER CANNOT GET NECESSARY SAMPLING EQUIPMENT TO SITE)
WRONG RESOURCE/NOT PART OF TARGET POPULATION	ARTIFICIALLY CREATED LAKE OTHER THAN ESTABLISHED IMPOUNDMENTS
WRONG RESOURCE/NOT PART OF TARGET POPULATION	STORMWATER TREATMENT AREAS
WRONG RESOURCE/NOT PART OF TARGET POPULATION	WETLANDS
WRONG RESOURCE/NOT PART OF TARGET POPULATION	ROADSIDE BORROW PIT
WRONG RESOURCE/NOT PART OF TARGET POPULATION	CURRENT OR HISTORIC MINING OPERATION WITHOUT RESTORATION
WRONG RESOURCE/NOT PART OF TARGET POPULATION	STREAM/RIVER ARTIFICIALLY ALTERED WITH LOSS OF SINUOSITY AND BOX CUT BANKS (NOT A PRIMARY CANAL)
WRONG RESOURCE/NOT PART OF TARGET POPULATION	ARTIFICIAL LAKE, LAGOON, OR POND USED FOR AGRICULTURAL OR AQUACULTURE OPERATIONS
WRONG RESOURCE/NOT PART OF TARGET POPULATION	ESTABLISHED LAKE SIZE IS < 4 HECTARES, VIA BEST PROFESSIONAL JUDGEMENT, (NOT "DRY")
WRONG RESOURCE/NOT PART OF TARGET POPULATION	GIS COVERAGE INCORRECT, WATERBODY NOT PRESENT AT RANDOM LOCATION
WRONG RESOURCE/NOT PART OF TARGET POPULATION	WATERBODY WITHIN FDEP PERMITTED FACILITY BOUNDARY
WRONG RESOURCE/NOT PART OF TARGET POPULATION	RANDOM LOCATION LIES AT OUTFALL OF FDEP PERMITTED FACILITY (SITE LIES AT THE OUTFALL POINT OF EFFLUENT OR IN MIXING ZONE)
WRONG RESOURCE/NOT PART OF TARGET POPULATION	RANDOM LOCATION FALLS OUTSIDE REPORTING ZONE
WRONG RESOURCE/NOT PART OF TARGET POPULATION	ESTUARY
WRONG RESOURCE/NOT PART OF TARGET POPULATION	CHANGING RESOURCE TYPE (INCLUDING RESTORATION AREAS) (RESOURCE TYPE WILL DEFINITELY CHANGE PRIOR TO SCHEDULED SAMPLING. EXAMPLE: IMPOUNDMENT OF A FORMER RIVER TO FORM A LAKE.)
WRONG RESOURCE/NOT PART OF TARGET POPULATION	STREAM SEGMENT IS NOT CONNECTED TO WATERS OF THE STATE
WRONG RESOURCE/NOT PART OF TARGET POPULATION	DRAINAGE/IRRIGATION DITCH INCLUDED IN PRIMARY CANAL COVERAGE

After entering the Exclusion Category and Criterion, please add a short statement to the **Comments** field describing why the site was excluded. Include the word “field” or “office” to denote the type of recon completed, as well as the name of the person performing the recon and the date (**Figure 12**). Questions should be directed to the appropriate WMS contact.

Figure 12. Example of a completed Recon Tracking page for an unsampleable surface water station. Site Z1-LL-15021 is displayed as an example.

The screenshot shows a web application interface for 'Site Recon Information'. On the left is a dark sidebar with navigation links: Home, Recon Tracking, Existing Station, New SW Station, and New GW Station. The main content area displays the following information for station Z1-LL-15021:

- PK RANDOM SAMPLE LOCATION: Z1-LL-15021
- Station ID: NA
- Waterbody Name: LAKE IAMONIA
- County: LEON
- WMD: NORTHWEST FLORIDA WMD
- Random Latitude: 30° 38' 18.4896"
- Random Longitude: 84° 15' 2.5163"
- Is Z1-LL-15021 sampleable?: Yes ☐ No ☒ NA ☐
- Exclusion Category: DRY (selected from a dropdown menu)
- Exclusion Criteria: DRY DURING INDEX PERIOD, INCLUDES SMALL LAKE WATER < 4 HECTARES LARGE LAKE WATER < 10 HECTARES (selected from a dropdown menu)
- Was Z1-LL-15021 sampled?: ☐
- Comments: T. Adams 9/21/21 Field Recon. Due to recent drought, lake is less than 1 meter deep

At the bottom of the form are four buttons: 'Go back to previous page', 'Save', 'Reset', and 'Show Map'.

Click **Save** to record the information or **Reset** to clear edits and begin again.

NOTE: If “No” was entered for the question, “Is [the site] sampleable?”, the recon information cannot be saved without entering the Exclusion Category and Criteria.

Case 2: Site is Sampleable

If the recon indicates that the site can be sampled, click **Yes**. After the site has been sampled, be sure to update the sampling date (it defaults to the current date), and add any pertinent comments at this time. Click **Save** to record edits (**Figure 13**).

Figure 13. Example of a completed Recon Tracking page for a sampleable surface water station. Site Z1-LL-15002 is displayed as an example.

Site Recon Information

PK RANDOM SAMPLE LOCATION: Z1-LL-15002
 Station ID: 59280
 Waterbody Name: BEAR LAKE
 County: SANTA ROSA
 WMD: NORTHWEST FLORIDA WMD
 Random Latitude: 30° 52' 2.34339"
 Random Longitude: 86° 49' 36.4139"
 Is Z1-LL-15002 sampleable?: Yes ☒ No ☐ NA ☐
 Exclusion Category:
 Exclusion Criteria:
 Was Z1-LL-15002 sampled?: Yes ☒ 06/09/2021
 Comments:
 Go back to previous page Save Reset Show Map

B. Groundwater

When Confined Aquifer or Unconfined Aquifer are selected as the Resource Type, a list of wells that were selected as candidates for sampling will appear. To recon a groundwater station, click **Show Map** at the bottom of the station screen, and review as you would for surface water. The [Recon Manual](#) provides more details and examples. Be sure to click **Save** to record edits.

Viewing Sampling Sites in a Reporting Unit

Another feature of the Database Utilities Map Direct application is the ability to view current site selections along with previously sampled sites. If a waterbody/well was sampled in the past, this may provide evidence that it is sampleable during the current Cycle. To view the past and present sites, go back to the list of random sampling sites and click **Show Map (Figure 14)**. Remember that all 150 surface water or 200 groundwater sites cannot be mapped at one time. Limit the list of sites to 140 or less sites for mapping purpose.

Figure 14. Example list of Status Zone 1 unconfined aquifer sites to recon with the 'Show Map (button indicated by red circle).

Recon Tracking Results					
Selection Criteria: Resource Type = LARGE LAKE; Reporting Unit = Zone 1; Reporting Cycle = 15;					
				Show Map	CSV
RANDOM SAMPLE LOCATION	LATITUDE	LONGITUDE	SAMPLEABLE	STATION ID	
Z1-LL-15001	30° 37' 5.5738"	83° 52' 48.6951"	NO		
Z1-LL-15002	30° 52' 2.34339"	86° 49' 36.4139"	YES	59280	
Z1-LL-15003	30° 47' 11.5521"	86° 11' 35.163"	YES	59281	
Z1-LL-15004	30° 19' 10.6375"	85° 34' 47.677"	YES	59282	
Z1-LL-15005	30° 38' 14.627"	84° 12' 9.94485"	YES	59283	
Z1-LL-15006	30° 30' 51.9836"	85° 32' 24.574"	YES	59284	
Z1-LL-15007	30° 43' 28.1467"	84° 52' 42.6568"	YES	59285	
Z1-LL-15008	30° 18' 13.8139"	85° 35' 20.3856"	YES	59286	
Z1-LL-15009	30° 32' 49.849"	84° 19' 25.571"	NO		
Z1-LL-15010	30° 33' 25.6952"	85° 47' 10.1978"	NO		

A map appears showing the random sites listed above, along with the past sampling sites from *all* water resources. The current site selections will appear with their labels turned on by default. Different symbols are used for each resource. The symbols will be surrounded by hollow blue circles when selected (**Figure 15**). Upon zooming in, one can see the past sampling points for all resources in the Reporting Unit. If the past sampling points are not displayed, click the "Sampled Stations" layer button on the left side to make them visible. To view the legend for all visible layers, click the "Show Legend" button in the top left corner (**Figure 16**). The "Sampled Stations" layer includes sites that were sampled under the Status Network, Trend Network, and/or the now-discontinued Background / Very Intense Study Area (VISA) Networks. To display information about a site, click the Identify Point icon , and then click on the symbol for that site.

Figure 15. Results of clicking the Show Map (Random Sample Location) button. In this case the inputs were: Resource Type = Small Lake, Reporting Unit = Zone 1, and Reporting Cycle = 7.

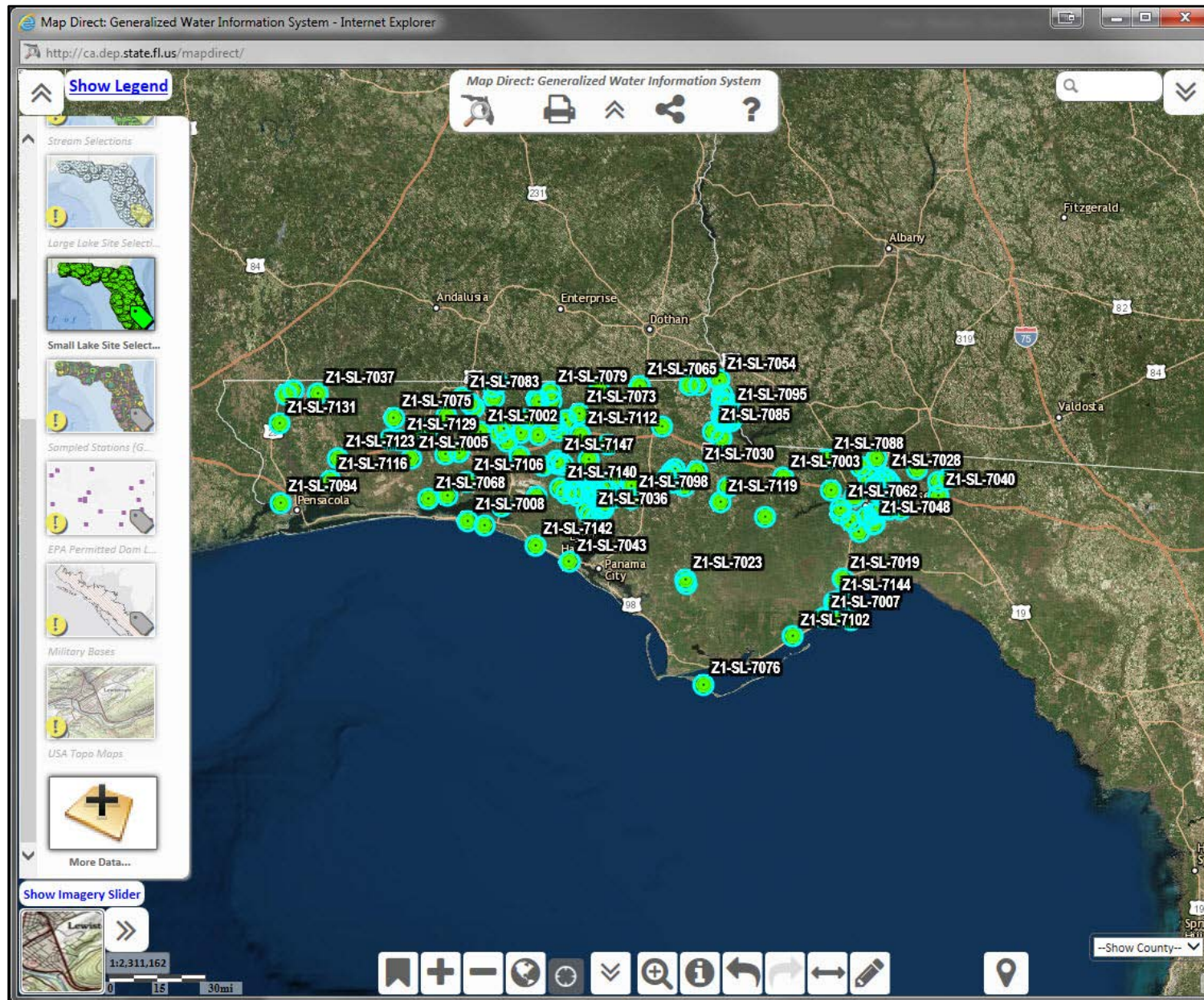
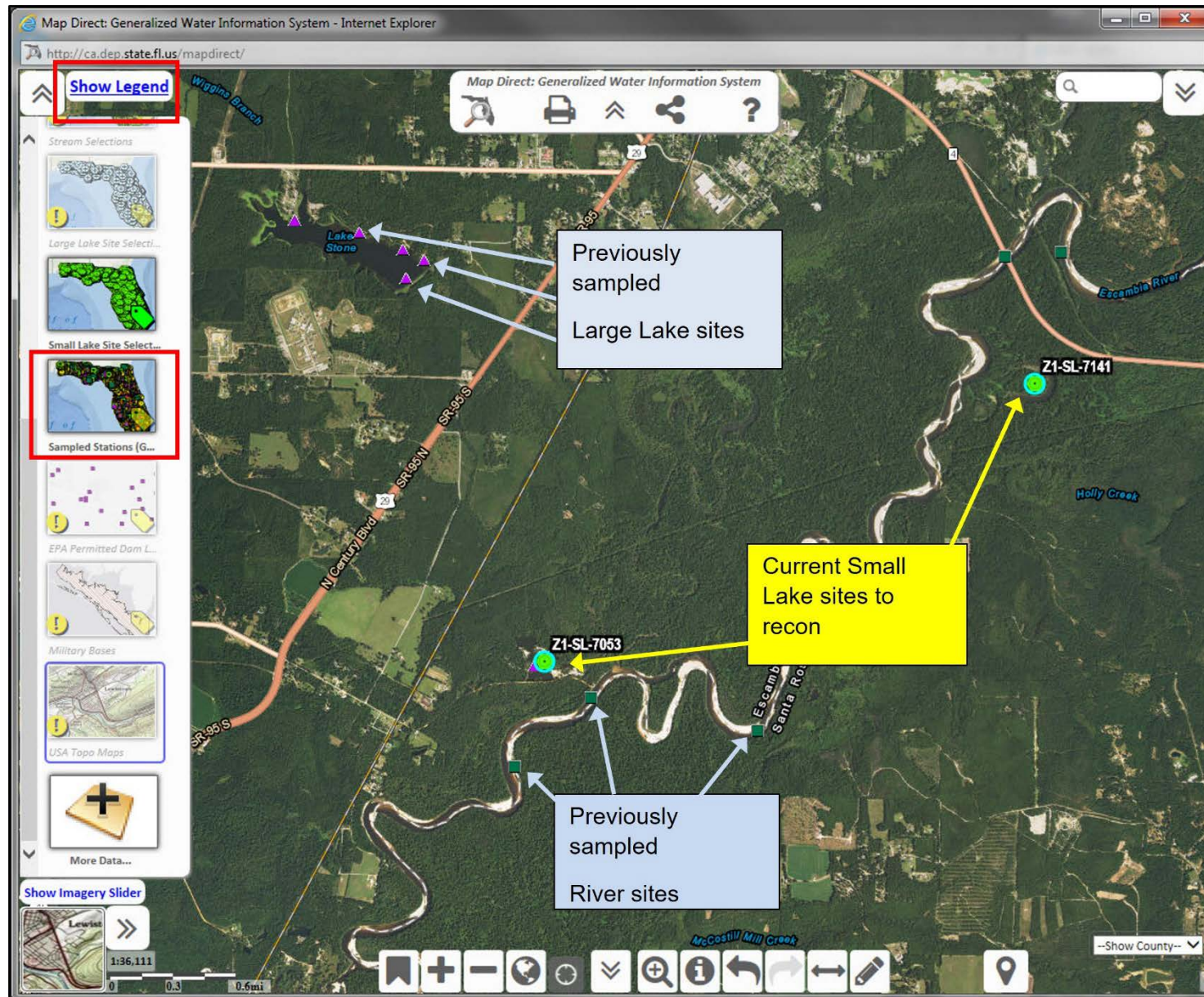


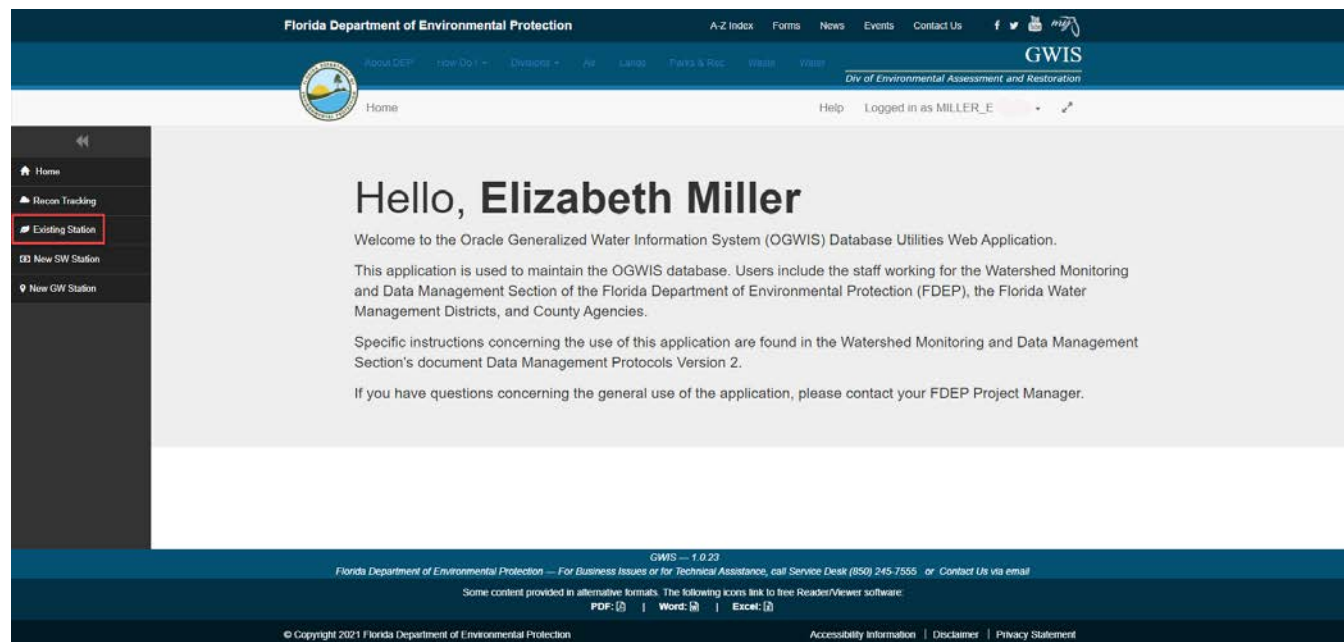
Figure 16. Zoom-in of the previous figure. Cycle 7 Small Lake selections are indicated with blue circles and site names (e.g., Z1-SL-7053). To display historical sites from all resources, click the "Sampled Stations" layer button on the left side. To view the legend for all visible layers, click the "Show Legend" button in the top left corner.



Updating Existing Station Information

Periodically, some of the data for a station may change (e.g., ownership of a well or phone numbers may change). Updates to reflect these changes should be made in a timely manner¹ by either the WMS contact (See Contacts, page 26) or the contracted sampling agency. To update information in the Database Utilities, click on **Existing Station** (*Figure 17*).

Figure 17. Click Existing Station to view or modify station information. Existing Station link is indicated by a red rectangle.



There are several options for accessing site information (*Figure 18*):

1. If the **Station ID** (i.e. pk_station from the Oracle table T_STATION) is known, enter it into the **Station ID** field and click **View Results**. That station will be shown. If the **Station ID** is not known but the **Station Name** is known, enter it into the **Station Name** field and click **View Results**. A list of stations with similar names will be shown. Click on the appropriate station name.
2. If the entire **Station Name** is not known, enter known characters and leave the rest of the field blank. The application will search for all stations with the beginning characters identified.
3. As an alternative, select a Water Resource, County, FLUWID number, etc., to search for the site. Click **View Results**, and a list will show up as seen in *Figure 19*.

Note: The search function is case-sensitive. If the desired station is not found, try entering the search criteria again using all capital letters.

¹ Ideally, this should be after the Lab and Field data are combined and made available for review, but before the data are released.

Figure 18. Existing Station screen showing search options

Home

Recon Tracking

Existing Station

New SW Station

New GW Station

Existing Station

Station ID:

Station Name:

Status Random Site ID:

Water Resource:

Waterbody Name:

County:

Agency Maintaining Info:

Hydrologic Unit Name:

Florida Unique Well ID:

Reset Form

View Results

Generate Export File

Figure 19. All existing stations in waterbodies named ALLIGATOR LAKE

Existing Station Results										
Home Recon Tracking Existing Station New SW Station New GW Station	Selection Criteria: Waterbody Name = Alligator Lake Generate Export File									
	STATION_ID	STATION_NAME	COUNTY_NAME	WATER_MANGEMENT_DISTRICT	DEP_DISTRICT	WATERBODY_TYPE	WATER_RESOURCE	WATERBODY_NAME	FLORIDA_UNIQUE_WELL_IDENTIFIER	RANDOM_SAMPLE_LOCATION
	13921	22-LL-12099	COLUMBIA	SUNWANNEE RIVER WMD	NORTHEAST DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		22-LL-12099
	14161	22-LL-13013	COLUMBIA	SUNWANNEE RIVER WMD	NORTHEAST DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		22-LL-13013
	43556	22-LL-7005	COLUMBIA	SUNWANNEE RIVER WMD	NORTHEAST DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		22-LL-7005
	43139	22-LL-8003	COLUMBIA	SUNWANNEE RIVER WMD	NORTHEAST DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		22-LL-8003
	47067	22-LL-9011	COLUMBIA	SUNWANNEE RIVER WMD	NORTHEAST DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		22-LL-9011
	49409		OSCEOLA	SOUTH FLORIDA WMD	CENTRAL DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		25-LL-15001
	53846	25-LL-12093	OSCEOLA	SOUTH FLORIDA WMD	CENTRAL DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		25-LL-12093
	53848	25-LL-12006	OSCEOLA	SOUTH FLORIDA WMD	CENTRAL DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		25-LL-12006
	58223	25-LL-13006	OSCEOLA	SOUTH FLORIDA WMD	CENTRAL DISTRICT	LAKE	LARGE LAKE	ALLIGATOR LAKE		25-LL-13006

When the list appears, click on the appropriate station name. The station information will appear, as seen in **Figure 20**. Fields that are not in a box are not editable.

Figure 20. Information page for an Existing Station. Station 53821 is displayed as an example. Note that STATION ID and STORET ID cannot be edited.

Surface Water Station Update for # 53821

Changes to any information not editable in this form should be routed through the Project Manager and Database Manager.

Identifier

STATION ID: 53821
STORET ID: 53821
STATION NAME: 22-LL-12009
STATION DESCRIPTION:

Owner

OWNER NAME:
PROPERTY OWNER:
MAIL ADDRESS:
CITY:
STATE:
ZIP:
TELEPHONE:
SECONDARY TELEPHONE:
EMAIL:
CONTACT NAME: SRWMD
CONTACT AGENCY:
CONTACT ADDRESS: 9225 COUNTY ROAD 49
CONTACT CITY: LIVE OAK
CONTACT STATE: FL
CONTACT ZIP: 32060
CONTACT TELEPHONE:

Scroll Bar

To update information in this screen, simply type in the new information over the old or blank field and click **Save** at the bottom of the screen. All station information is displayed on one page. Use the scroll bar on the right side of the screen to scroll to additional information.

If an owner or contact requests monitoring information, click on the **Letter** drop down menu under the **Owner** heading (**Figure 21**). Select either Owner or Contact from the drop-down list. This action lets the WMS contact know (via the Automated Data Management [ADM] interface) that he or she needs to send monitoring information to that person or organization.

Figure 21. Illustration of the Owner heading. LETTER: is the last item under this heading and is indicated by a red box. The LETTER drop-down menu is also indicated by a red box. Station 53821 is displayed as an example.

Surface Water Station Update for # 53821

Owner

OWNER NAME:
PROPERTY OWNER:
MAIL ADDRESS:
CITY:
STATE:
ZIP:
TELEPHONE:
SECONDARY TELEPHONE:
EMAIL:
CONTACT NAME: SRWMD
CONTACT AGENCY:
CONTACT ADDRESS: 9225 COUNTY ROAD 49
CONTACT CITY: LIVE OAK
CONTACT STATE: FL
CONTACT ZIP: 32060
CONTACT TELEPHONE: 3863621001
CONTACT SECONDARY TELEPHONE:
CONTACT EMAIL:
LETTER: NONE
Lat/Long
LATITUDE: 30° 10' 1.151"
LONGITUDE: 82° 37' 21.493"
LOCATION METHOD:

Changes to waterbody names should be routed through your WMS contact (See Contacts, page 26). Waterbody names are only assigned if they are officially added to the Geographic Naming Information System (GNIS). For a comprehensive list of the information contained in each tab, see page 27. Other

Geographic and Hydrology information is not editable through this interface. If information such as LATITUDE, LONGITUDE, COUNTY, WATER RESOURCE, etc need to be updated, contact the Project Manager or Data Coordinator.

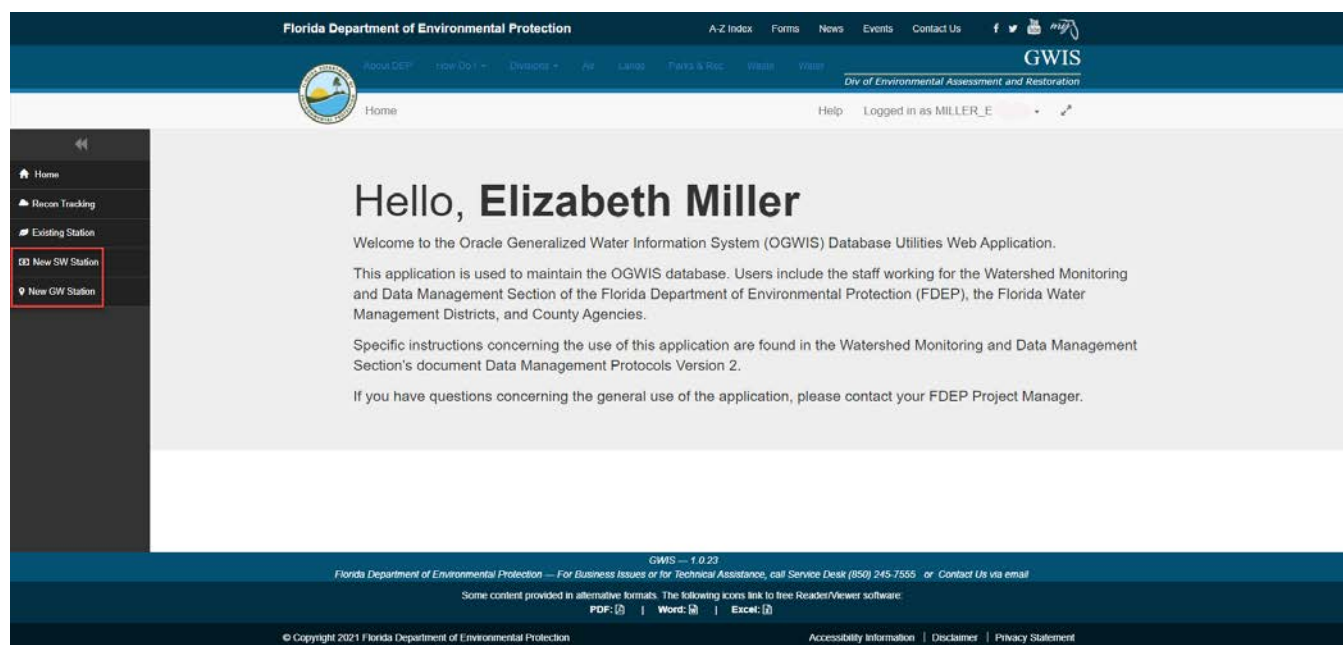
Batch Updates to Existing Station Data

Requests for large-scale updates to station data should be made to the Data Coordinator.

Adding a New Station

Only WMS staff have the correct permissions to add new stations manually. If a station needs to be added, please check with the appropriate WMS contact. Station addition should be done only with the Data Coordinator permission. To add a new surface water (SW) or groundwater (GW) station, select **New SW Station** or **New GW Station** (*Figure 22*).

Figure 22. Click New SW Station or New GW Station to add a new station. Links are boxed in red on the left side of the image.



In each case, a tabbed form (*Figure 23*) appears. Enter required data (see next section for list of required fields) and click **Save**.

Figure 23. Add a New SW Station Page. Required elements have a red star after.

Minimum Data Requirements for Stations

There are certain minimum data requirements for all stations, to save them to the database.

1. For a **groundwater station (well)**, the following minimum information is required (as defined in the current Stations Table Data Dictionary):

- STATION NAME
- WATERBODY NAME (aquifer)
- WATER RESOURCE (confined/unconfined)
- LATITUDE
- LONGITUDE
- LOCATION METHOD
- LOCATIONAL DATUM
- CASING DIAMETER (inches)
- CASING DEPTH (feet below Land Surface)
- TOTAL DEPTH (feet below Land Surface)

2. For **surface water stations**, the following information is required:

- STATION NAME
- WATERBODY TYPE (stream/canal/lake)
- WATERBODY NAME
- WATER RESOURCE (small stream/large river/canal/large lake/small lake)
- LATITUDE
- LONGITUDE
- LOCATION METHOD

- LOCATIONAL DATUM

In addition to the above-mentioned data elements, the WMS contact or contracted sampling agency should make every effort to provide as much information about the site as appropriate and possible.

Contacts

This is a four-column table with the title and organization/agency of the contact in the first column, the contact name in the second column, the contact phone number in the third column and the contact email in the fourth column.

Title/Description	Name	Phone	Email
Section Administrator (Watershed Monitoring Section)	Jay Silvanima	(850) 245-8507	James.Silvanima@dep.state.fl.us
Data Coordinator (Watershed Monitoring Section)	Thomas Adams	(850) 245-8512	Thomas.L.Adams@floridadep.gov
Data Manager (Watershed Monitoring Section)	Vacant contact Thomas Adams	(850) 245-8512	Thomas.L.Adams@floridadep.gov
Zone 1 (Northwest Florida Water Management District)	Tom Seal	(850) 245-8514	Thomas.Seal@dep.state.fl.us
Zone 2 (Suwannee River Water Management District) and Zone 3 (DEP samplers)	Meghan Maly	(850) 245-8232	Meghan.Maly@floridadep.gov
Zone 3 (SJRWMD and Alachua County samplers) (St. Johns River Water Management District)	Tom Seal	(850) 245-8514	Thomas.Seal@dep.state.fl.us
Zone 4 (Southwest Florida Water Management District)	Lana Neff	(850) 245-8321	Lana.Neff@floridadep.gov
Zone 5 (South Florida Water Management District – West)	Lana Neff	(850) 245-8321	Lana.Neff@floridadep.gov
Zone 6 (South Florida Water Management District – East)	Lana Neff	(850) 245-8321	Lana.Neff@floridadep.gov

Station Information

This is a list of the elements found in the existing or new station information display.

(* = required information)

Station Information Tabs:

1. Identifier

STATION ID
STORET ID
RANDOM SAMPLE LOCATION ID (for Status sites)
FL UNIQUE WELL ID (for groundwater sites)
STATION NAME*
STATION DESCRIPTION

2. Owner

OWNER NAME
PROPERTY OWNER
MAIL ADDRESS
CITY
STATE
ZIP
TELEPHONE
SECONDARY TELEPHONE
EMAIL
CONTACT NAME
CONTACT AGENCY
CONTACT ADDRESS
CONTACT CITY
CONTACT STATE
CONTACT ZIP
CONTACT TELEPHONE
CONTACT SECONDARY TELEPHONE
CONTACT EMAIL
LETTER (requests for monitoring information)

3. Lat/Long

LATITUDE (in degrees/minutes/seconds)*
LONGITUDE (in degrees/minutes/seconds)*
LOCATION METHOD*
LOCATIONAL DATUM*

4. Geographic

COUNTY (determined based on lat/long)
WATER MGMT DISTRICT
DEP DISTRICT OFFICE
TMDL BASIN
REPORTING UNIT (for Status sites)

For Groundwater Wells:

5. Hydro

WATER BODY NAME (name of aquifer)*

WATER RESOURCE (confined/unconfined)*
HYDROLOGIC UNIT NAME (determined based on lat/long)*
SUBAQUIFER
GRID CELL
TOP OF AQUIFER (depth in feet)
BOTTOM OF AQUIFER (depth in feet)
GEOLOGIC LOG
LITHOLOGIC LOG
DRILLER LOG
HYDROLOGIC DATA

6. Hydro II

DRILL DATE
WELL STATUS (flowing, non-flowing, plugged, etc.)
WELL TYPE
CONSTRUCTION METHOD
LIFT TYPE
TOTAL DEPTH (in feet below land surface)*
CASING DEPTH (in feet)*
SCREEN BEGIN DEPTH (in feet)
SCREEN END DEPTH (in feet)

7. Hydro III

FINISH
SCREEN MATERIAL
SCREEN DIAMETER (in inches)
CASING MATERIAL*
CASING DIAMETER (in inches)*
LAND SURFACE ELEVATION (in feet)
MEASURING PT ELEVATION (in feet)
WATER LEVEL RECORDER
LEAD WEIGHT

8. Project Info

SAMPLED TV (Trend Network)
SAMPLED WQAS (Watershed Assessment Section)
SAMPLED Background
SAMPLED VISA
SAMPLED HRSPWS (FL Dept. of Health & Rehabilitative Services Private Well Survey)
SAMPLED STATUS
DATA SOURCE
AGENCY

9. Comments

For Surface Water Sites:

5. SW Hydrology

WATER BODY NAME*
OTHER WATERBODY NAME
WATER BODY TYPE*
WATER RESOURCE*
SW CLASS

- 6. Project Info
 - SAMPLED TV (Trend Network)
 - SAMPLED STATUS
 - SAMPLED WQAS (Watershed Assessment Section.
 - DATA SOURCE
 - AGENCY

- 7. Comments