

Surface Water Integrated Monitoring System (SWIMS)

Advanced User Guide

May, 2007

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Introduction

The Surface Water Integrated Monitoring System (**SWIMS**) is a dynamic database which supports water quality monitoring activities, including planning, preparation, execution and write up of water quality monitoring work.

SWIMS hosts a variety of functions:

- Establish new monitoring stations or look up information and data on existing monitoring stations.
- Map precise locations of monitoring stations on a GIS hydro layer.
- Generate printed lab slips to accompany collected monitoring samples.
- Download monitoring data from a comprehensive statewide database system.
- Edit project information.
- Store monitoring plans, quality assurance plans, data analyses, related reports, photos and maps.
- Upload monitoring results using different forms, including archiving continuous meter data (temperature only plus multi-parameter units)
- Support complex monitoring work involving multiple horizontal and vertical measures, such as sediment cores and/or transect surveys for plants, sediment or other data.

The Surface Water Data Viewer database (**SWDV**) contains additional features related to monitoring station activities:

- Obtain/Identify the location of your monitoring station without logging in to the SWIMS system.
- Identify the latitude and longitude for your monitoring station.
- View available data in SWIMS through the internal Surface Water Data Viewer.

This “Advanced User Guide” explains how to use the features of the SWIMS for advanced user functions.

Getting Help

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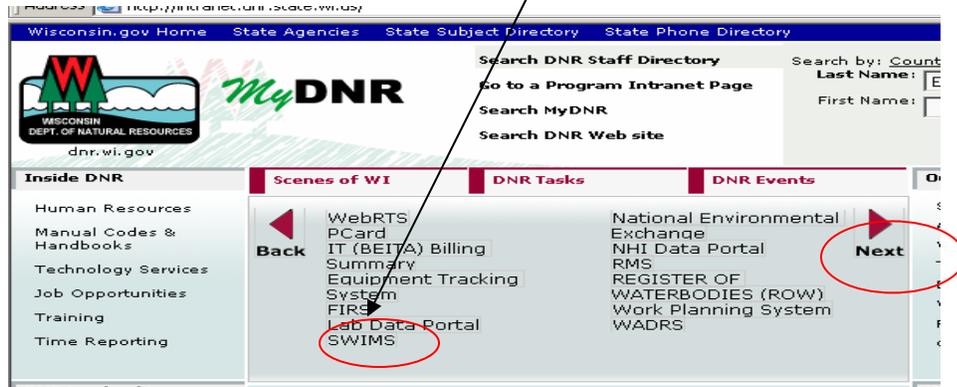
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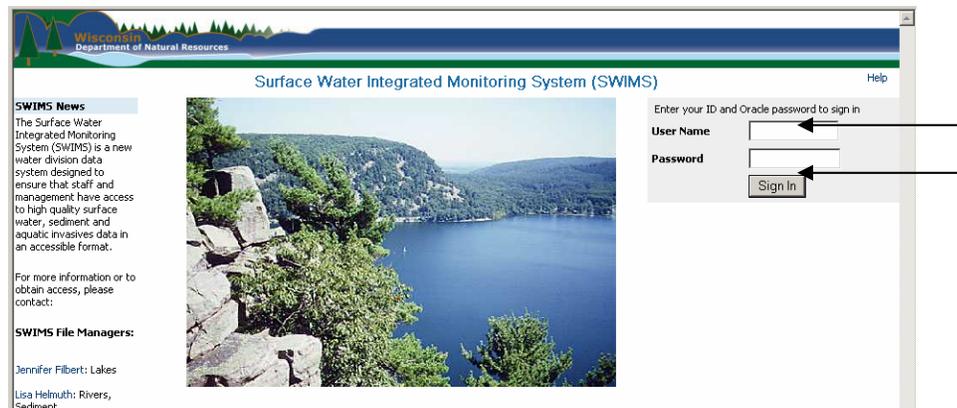
Using the Surface Water Integrated Monitoring System (SWIMS)

Access SWIMS

Use Internet Explorer to access “My DNR.” Click on the “**DNR Tasks**” and then click on the “**Next**” arrow. Click on the “**SWIMS**” link to access the SWIMS database Sign In Page.



Enter your User Name and Oracle ID (the one you use for timesheets) and click the “**Sign In**” button.



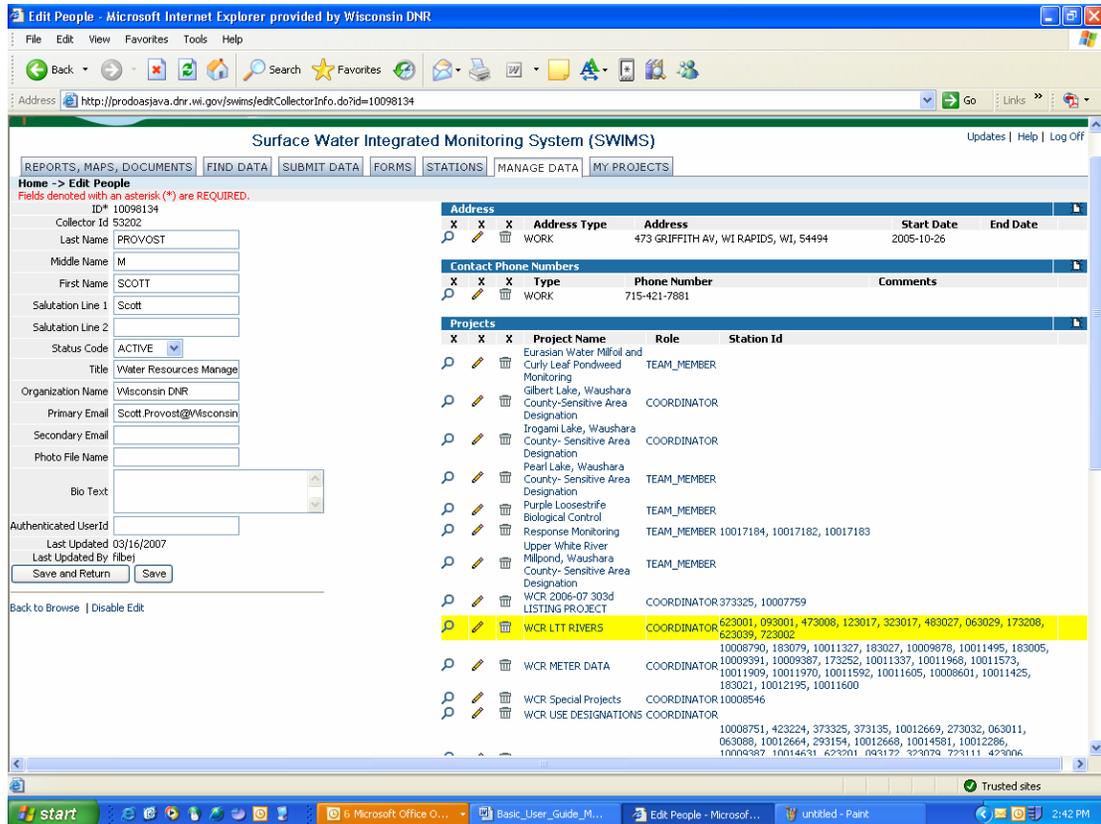
User Roles in SWIMS

The SWIMS system security is role-based. All DNR users, which include all DNR staff in the Water Division and in Science Services, are able to search, view, and download data, as well as submit data. This role is “SWIMS Staff User Edit Role.” This user role allows people to schedule and complete fieldwork events and subsequent to the creation of these events, people can edit related information. No role allows DNR staff to edit results in SWIMS directly submitted by a laboratory,

but users can enter and edit field results collected in conjunction with monitoring that passed through a laboratory.

Additional roles which provide access to advanced functions include project coordinator and data manager, which provide more flexibility to link data to a specific project, including people, stations, account codes, or linking fieldwork completed or scheduled to a specific project.

User roles are assigned at the level of the individual. The screen shot below shows how individuals are represented in the system:



The SWIMS Team tracks key information including project responsibilities, roles, communication and training and assigned equipment. This information can be updated by a file manager (see page 3).

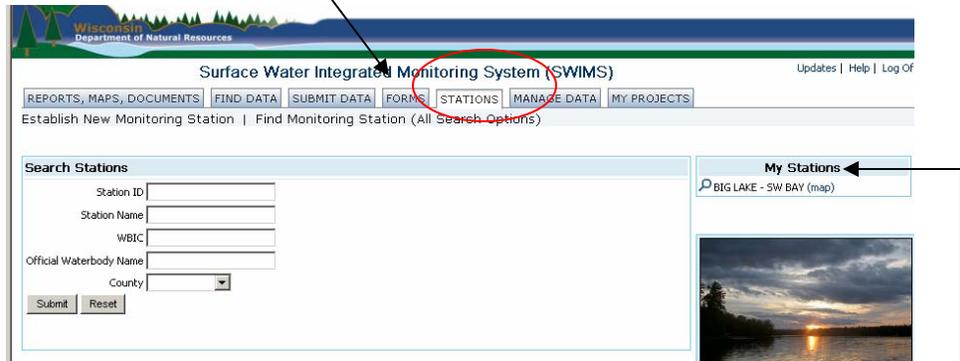
Find Monitoring Stations in SWIMS

○ Simple Searches

Simple searches include searching by one or more of the following categories: SWIMS Station ID, SWIMS Station Name(s), WBIC – Waterbody Identification Code, Waterbody Name, and/ or County.

Step 1: Navigate to Stations

Click on the “**STATIONS**” tab.



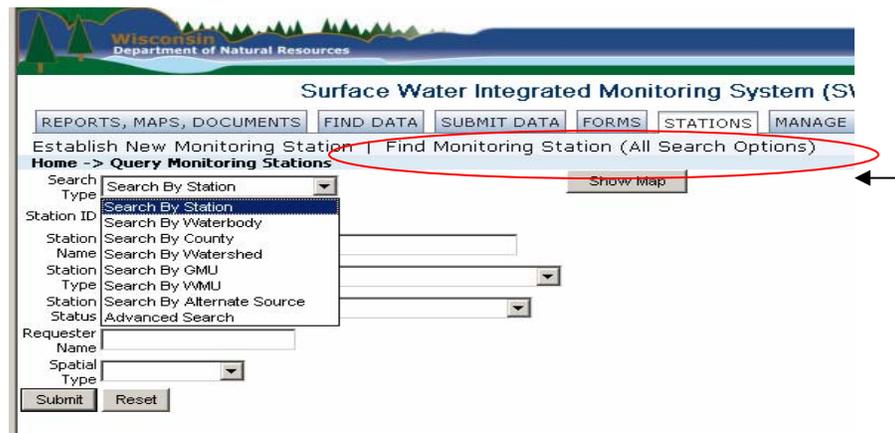
The screenshot shows the Wisconsin Department of Natural Resources Surface Water Integrated Monitoring System (SWIMS) interface. The navigation menu includes 'REPORTS, MAPS, DOCUMENTS', 'FIND DATA', 'SUBMIT DATA', 'FORMS', 'STATIONS', 'MANAGE DATA', and 'MY PROJECTS'. The 'STATIONS' tab is circled in red. Below the navigation menu, there are links for 'Establish New Monitoring Station' and 'Find Monitoring Station (All Search Options)'. On the left, there is a 'Search Stations' form with fields for Station ID, Station Name, WBIC, Official Waterbody Name, and County, along with 'Submit' and 'Reset' buttons. On the right, there is a 'My Stations' section with a search box containing 'BIG LAKE - SW BAY (map)' and a corresponding image of a lake at sunset.

Step 2: Enter Information

Enter in a Station ID, Station Name, WBIC or Waterbody name and/or County and click “**Submit**”. Or select your station from the list under “**My Stations**.”

○ All Search Option

Click on the “**Find Monitoring Station (All Search Options)**” link. Click the arrow on the “**Search Type**” box for the drop-down menu. Select the type of search by: Station, Waterbody, County, Watershed, GMU, WMU, Alternate Source, or Advanced Search. Enter search information. *TIP: Find Great Lakes by Station Name. WBIC and other location information are not always available for Great Lakes stations.*

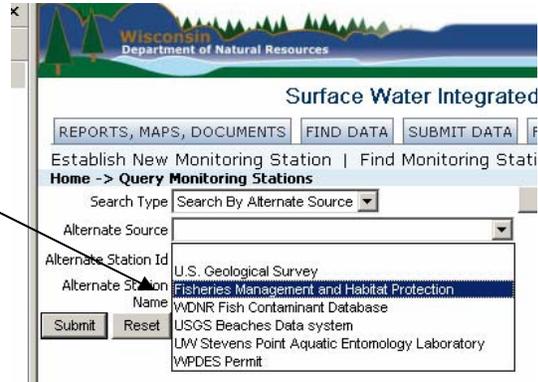


The screenshot shows the 'All Search Options' search form in the SWIMS interface. The navigation menu is visible at the top, with 'STATIONS' and 'MANAGE DATA' tabs circled in red. Below the navigation menu, there are links for 'Establish New Monitoring Station' and 'Find Monitoring Station (All Search Options)'. The 'Find Monitoring Station (All Search Options)' link is circled in red. Below the links, there is a 'Search Type' dropdown menu with a list of search options: Search By Station, Search By Waterbody, Search By County, Search By Watershed, Search By GMU, Search By WMU, Search By Alternate Source, and Advanced Search. The 'Search By Station' option is selected. Below the dropdown menu, there are input fields for Station ID, Station Name, Station Type, Station Status, Requester Name, and Spatial Type, along with 'Submit' and 'Reset' buttons. A 'Show Map' button is also visible.

- **Alternate Source Options - Fish Monitoring Stations**

The “**Search by Alternate Source**” searches for monitoring stations in these other databases: U. S. Geological Survey, Fisheries Management, WDNR Fish Contaminant Database, USGS Beaches Data System, UW Stevens Point Aquatic Entomology Laboratory, and WPDES Permit.

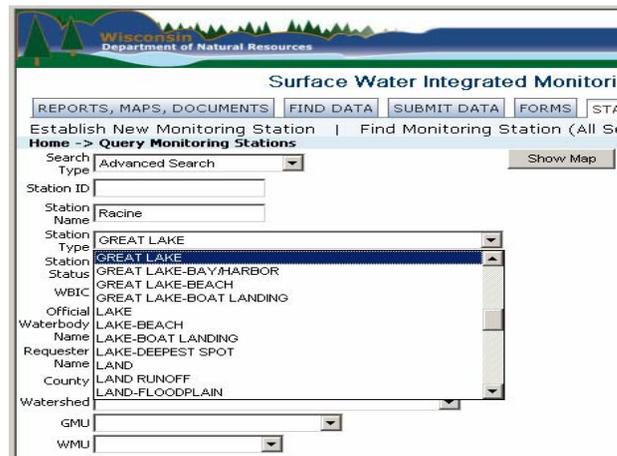
Search “**Alternate Source**” for Fish Monitoring Stations:
 Select the “**Fisheries Management and Habitat Protection**” option to find Fish Monitoring Stations. Type in the Alternate Station ID number of Alternate Station Name to refine your search.



- **Advanced Search Option**

Use the “**Advanced Search**”, to search by different databases, a variety of criteria, or other variables such as “**Station Type**” or “**Status**” (Active, Useable). You can use this option to create a list of monitoring stations that meet the specific search criteria you enter. Click on the “**Submit**” button once you have entered your search information.

In this example, Racine was typed in the “**Station Name**” and “**Great Lake**” was selected from the “**Station Type**” drop-down arrow list.



The Racine/Great Lake search produced this list of monitoring stations meeting the search criteria.

Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> Monitoring Stations

Monitoring Stations

First Previous 1-7 of 7 Next Last Order By Most Recent First Search | Show All

Link to FM	Station ID	Station Name	Fisheries Station ID	Fisheries Station Name	Station Type	WBIC	Official Waterbody Name	Station Status	Replaced Stations?	Replaced By
	523125	RACINE HARBOR - 25' OFF BEND IN N BREAKWALL	NA	NA	GREAT LAKE 20	LAKE MICHIGAN	Active, usable	No		
	523167	LAKE MICHIGAN - RACINE HARBOR	NA	NA	GREAT LAKE NA		Active, usable	No		
	523164	LAKE MICHIGAN - RACINE 10M T3/14	NA	NA	GREAT LAKE NA		Active, usable	No		
	523163	LAKE MICHIGAN - RACINE SHALLOW T3/14	NA	NA	GREAT LAKE 20	LAKE MICHIGAN	Active, usable	No		
	523141	RACINE HARBOR - 100' UPSTR OF 2ND BRIDGE BELOW 5TH ST YACHT CLUB	NA	NA	GREAT LAKE 2900	ROOT RIVER	Active, usable	No		
	523140	RACINE HARBOR - AT 5TH STREET YACHT CLUB LAUNCH	NA	NA	GREAT LAKE 2900	ROOT RIVER	Active, usable	No		
	523139	RACINE HARBOR - ROOT RIVER ESTUARY @ 5TH ST. YACHT CLUB	NA	NA	GREAT LAKE 2900	ROOT RIVER	Active, usable	No		

Download

Verify SWIMS Monitoring Station Location

Step 1: Search for a Monitoring Station

Search for a monitoring station using one of the search methods described above in the section: “Find Monitoring Stations in SWIMS”.

Step 2: Select a Monitoring Station

The Search function returns you to a set of search results (stations) in the browse screen that matches your query. In this example, a station was searched by Waterbody Name: Mekan River. A list of monitoring stations matching this variable was returned. To view station details, including a map of the site, click on the “**magnifying glass**” icon. You can also use stations that do not currently have cross-referenced fisheries station information. When you use a specific SWIMS station for your fisheries work, this data is automatically updated. For example, if you use a SWIMS station with no alternate fisheries information, a cross link (as shown above) is automatically created by the process of your backfilling the station into your Fisheries Form.

Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> Monitoring Stations

Monitoring Stations

First Previous 1-1 of 1 Next Last Order By Most Recent First Search | Show All

Link to FM	Station ID	Station Name	Fisheries Station ID	Fisheries Station Name	Station Type	WBIC	Official Waterbody Name	Station Status	Replaced Stations?	Replaced By
	393005	MECAN RIVER - A CTH C EAST OF MONTELLO	6765	MECAN RIVER - A CTH C EAST OF MONTELLO	RIVER OR STREAM	155000	MECAN RIVER	Active, usable	No	

Download

Step 3: Review Monitoring Station Information

The “**magnifying glass**” icon opens this screen for the detailed information on the selected monitoring station. Click on the “**Show Map**” link to view a map of the monitoring station. *NOTE: The latitude and longitude and other geographic data for the station are displayed. The WBIC code and Watershed Code are also identified.*

Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> View Monitoring Station

Station ID: 393005
Station Name: MECAN RIVER - A CTH C EAST OF MONTELO
wbic: 155000
Official WaterBody Name: MECAN RIVER
Station Type: RIVER OR STREAM
Station Status: Active, usable
Requester Name:
Request Date: 03/11/2004
Reviewer Name:
Monitoring Station Comments:
Storet Org Code: 21WIS
Report to EPA: Y
Latitude: 43.815056
Longitude: -89.2054
WTM Easting: 583904.25
WTM Northing: 371638.47
Spatial Type: POINT
PLSS from eLT: 415110422
Watershed from eLT: UF09
GMU from eLT: UF
WMU from eLT: UF
County from eLT: 39
Region from eLT: NE
HUC from eLT: 04030201
Last Updated: 2006-02-10
Last Updated By: GIS INTERSECTION

Waterbodies	
WBIC	Official WaterBody Name
155000	MECAN RIVER

Watersheds	
Watershed Code	Watershed Name
UF09	Mecan River

Geographic Management Units	
GMU Code	GMU Name
UF	Upper Fox

Water Management Units	
WMU Code	WMU Name
UF	Upper Fox

Hydrologic Unit Codes	
HUC Code	HUC Name
04030201	

Counties	
County Code	County Name
39	Marquette

Regions	
Region Code	Region Name
NE	Northeast Region

Back | Station Location | Station Details | Field Work Event | Projects | **Show Map**

Step 4: Review Monitoring Station Map

The map shows the monitoring station in red:

Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
Updates | Help

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> View Monitoring Station

Station ID: 393005
Station Name: MECAN RIVER - A CTH C EAST OF MONTELO
wbic: 155000
Official WaterBody Name: MECAN RIVER
Station Type: RIVER OR STREAM
Station Status: Active, usable
Requester Name:
Request Date: 03/11/2004
Reviewer Name:
Monitoring Station Comments:
Storet Org Code: 21WIS
Report to EPA: Y
Latitude: 43.815056
Longitude: -89.2054
WTM Easting: 583904.25
WTM Northing: 371638.47
Spatial Type: POINT
PLSS from eLT: 415110422
Watershed from eLT: UF09
GMU from eLT: UF
WMU from eLT: UF
County from eLT: 39
Region from eLT: NE
HUC from eLT: 04030201
Last Updated: 2006-02-10
Last Updated By: GIS INTERSECTION

Hide Map | Print Lab Slip | Request Station | Driving Directions | Legend

0 10.043mi

Back | Station Location | Station Details | Field Work Event | Projects | Download

Cross-Referencing the Fisheries Management Database

Click on the “**Station Details**” link to see if there is a cross-referenced Fisheries Station. In this example, Mekan River at CTH C East of Montello, the SWIMS Station ID is 393005 and the Fisheries Management Station ID is 6765.

The screenshot shows the 'Station Details' page for Station ID 393005. The station name is 'MECAN RIVER - A CTH C EAST OF MONTELLO'. The 'Alternate Station Identifiers' table shows a cross-reference to Station ID 6765 with the name 'MECAN RIVER - A CTH C EAST OF MONTELLO' and source 'Fisheries Management and Habitat Protection'. The 'Associated QA Text' section contains the following information: 'Old latitude and longitude: 43.815167, -89.205333, old wbic: (none), Original source, old waterbody name and site name: Spreadsheets/Access, MECAN R, A CTH C EAST OF MONTELLO'. The 'Station Details' link in the navigation bar is circled in red.

Use SWIMS Stations in Fisheries Forms

SWIMS and the Fisheries Management Database are linked to allow users access from one database to the other. Follow these steps to find and use stations in SWIMS for Fish forms.

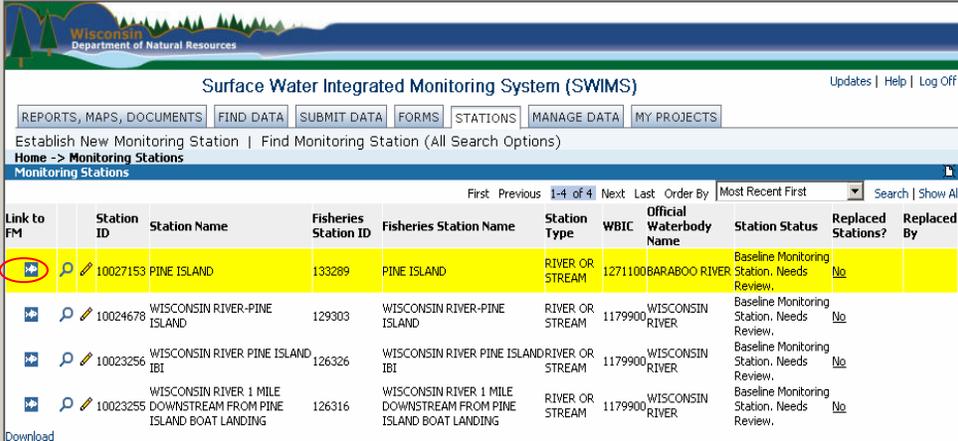
Step 1: Find Your Station

Click on the “**Search Type**” drop-down arrow and select the “**Search by Alternate Source**” option. Select the “**Fisheries Management and Habitat Protection**” option. *NOTE: If you click on the “**Fisheries Management and Habitat Protection**” option without additional information, all 12,000 stations in SWIMS with a cross-reference fisheries identifier will be returned. Type in the alternate station name or alternate station identification number to narrow your search.* Click on the “**Submit**” button.

The screenshot shows the 'Query Monitoring Stations' search form. The 'Search Type' is set to 'Search By Alternate Source'. The 'Alternate Source' dropdown is set to 'Fisheries Management and Habitat Protection'. The 'Alternate Station Name' field contains 'pine island'. The 'Submit' button is circled in red. Arrows point from the 'Submit' button to the 'Search Type' dropdown and the 'Alternate Source' dropdown.

Step 2: Select Your Station

A set of stations is returned that match the alternate station name of Pine Island. The Fisheries Station ID, SWIMS Station ID, and WBIC are listed. Locate your desired station and click on the “Fish symbol” icon located in the left-hand column of the SWIMS “Monitoring Station” screen to backfill that station’s information into the Fish Form.

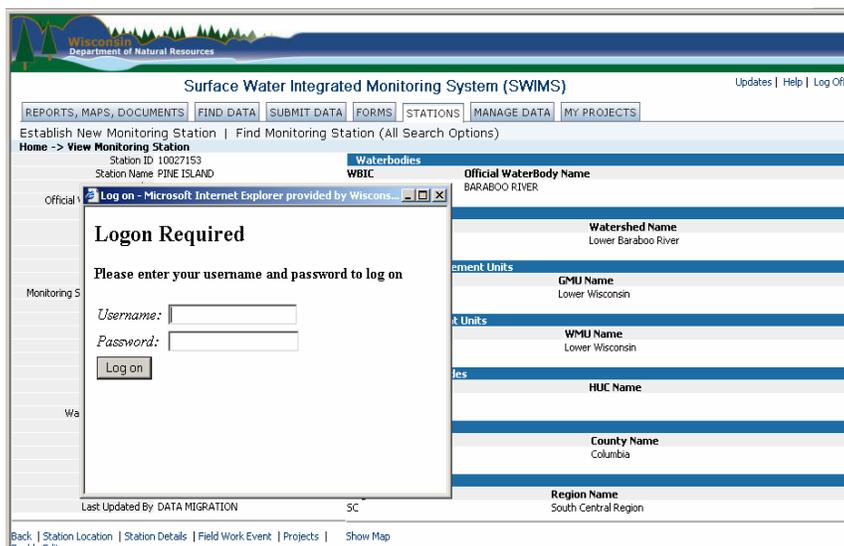


The screenshot shows the SWIMS interface with a table of monitoring stations. The table has the following columns: Link to FM, Station ID, Station Name, Fisheries Station ID, Fisheries Station Name, Station Type, WBIC, Official Waterbody Name, Station Status, Replaced Stations?, and Replaced By. The first row is highlighted in yellow and has a fish icon circled in red in the 'Link to FM' column.

Link to FM	Station ID	Station Name	Fisheries Station ID	Fisheries Station Name	Station Type	WBIC	Official Waterbody Name	Station Status	Replaced Stations?	Replaced By
	10027153	PINE ISLAND	133289	PINE ISLAND	RIVER OR STREAM	1271100	BARABOO RIVER	Baseline Monitoring Station, Needs Review.	No	
	10024678	WISCONSIN RIVER-PINE ISLAND	129303	WISCONSIN RIVER-PINE ISLAND	RIVER OR STREAM	1179900	WISCONSIN RIVER	Baseline Monitoring Station, Needs Review.	No	
	10023256	WISCONSIN RIVER PINE ISLAND IBI	126326	WISCONSIN RIVER PINE ISLAND IBI	RIVER OR STREAM	1179900	WISCONSIN RIVER	Baseline Monitoring Station, Needs Review.	No	
	10023255	WISCONSIN RIVER 1 MILE DOWNSTREAM FROM PINE ISLAND BOAT LANDING	126316	WISCONSIN RIVER 1 MILE DOWNSTREAM FROM PINE ISLAND BOAT LANDING	RIVER OR STREAM	1179900	WISCONSIN RIVER	Baseline Monitoring Station, Needs Review.	No	

Step 3: Log into the Fisheries Management Database System

Type in your username and password in the “Logon Required” screen to access the Fish Management Database.



The screenshot shows the SWIMS interface with a 'Logon Required' dialog box overlaid. The dialog box contains the text 'Please enter your username and password to log on' and has fields for 'Username:' and 'Password:', along with a 'Log on' button. The background shows the station details for Station ID 10027153, Station Name PINE ISLAND, and Official Waterbody Name BARABOO RIVER. The dialog box also shows the text 'Log on - Microsoft Internet Explorer provided by Wiscons...'.

Step 4: View Your Backfilled Station Data:

When you enter monitoring station information or select a station, the information is backfilled into the Fisheries Management Database.

Stations

Station Id: 151682
County: Columbia
Waterbody Name: BARABOO RIVER
WBIC: 1271100
Station Name: PINE ISLAND
SWIMS Org: 21WIS
Swims Station ID: 10027153
Station Date (MM-DD-YYYY): 09-14-2006
Quadrangle Name: LOV
Latitude (decimal degrees): 43.54623
Longitude (decimal degrees): -89.58725
Lat/Long Method: SWIMS
Lat/Long Datum: 1991 Adjustment OF NAD 83
Township Number: 12

Step 5: Select Survey:

To add survey information, scroll to the bottom of the “Stations” screen and click on the “Add a Survey” button in the Fisheries Management Database system.

Survey

Latitude (decimal degrees): 43.54623
Longitude (decimal degrees): -89.58725
Lat/Long Method: SWIMS
Lat/Long Datum: 1991 Adjustment OF NAD 83
Township Number: 12
Township Direction: NORTH
Range Number: 8
Range Direction: WEST
Section Number: 6
Quarter Section: SE
Quarter-Quarter Section: NE
Data Ent Name: DATA MIGRATION
Date Ent: 09-14-2006

Buttons: Update, Delete, Undo, Add a Survey, Download

Survey

Survey Insert Screen

Client 23425862435248 Server infotrek.er.usgs.gov County: COLUMBIA; WBIC: 1271100
BARABOO RIVER; Station: PINE ISLAND

Enter values for new Survey record

Survey Begin Date: CAL
Survey End Date: CAL
Waterbody Type: [dropdown]
Stream Order: 1.9
Stream Type: [dropdown]
Primary Survey Purpose: [dropdown]
Secondary Survey Purpose: [dropdown]
Creel Type: [dropdown]
Survey Description and Analysis: [text area]

This example shows the survey form with the backfilled Pine Island monitoring station location information.

Establish a New Monitoring Station with the eLT

If you are establishing a new monitoring station for a **new project**, contact a file manager (see page 3) to add your new project information to the SWIMS database. Appendix A shows the database relationships that create the connections between monitoring projects, stations, fieldwork events, collectors and lab data.

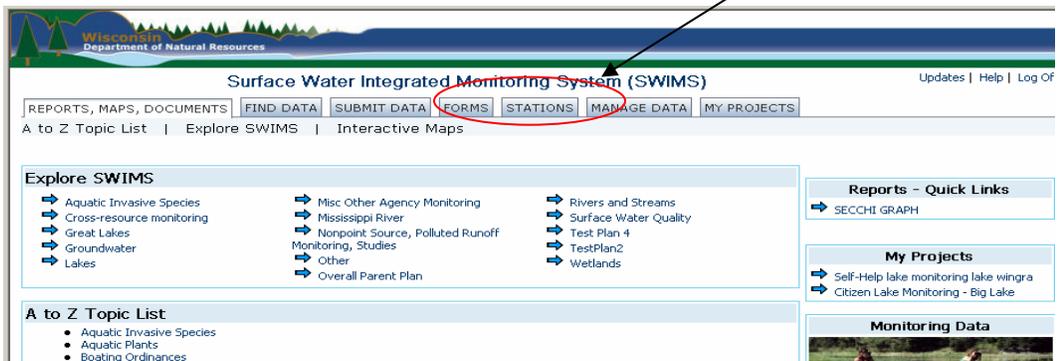
DNR Staff are strongly encouraged to use SWIMS or the SWDV to investigate if an existing station is available to use before establishing a new monitoring station location in the SWIMS database. Use the procedures described in the section: “Verify SWIMS Monitoring Station Location”, or follow the section: “Using the Surface Water Data Viewer – Look Up Monitoring Stations” in the Basic User Guide to identify if an existing station is available to use as a location for your monitoring.

Establishing a new station in SWIMS requires that you have a GIS tool on your computer (the embedded locator tool (eLT)). This mapping tool allows you to put a “dot” on the map where you monitored. Directions on how to use this tool are outlined below. DNR staff will be provided the eLT edit role to create monitoring stations at the point of data entry. Hands-on-training is highly recommended prior to use of the eLT to create new monitoring stations.

Latitude and longitude values must be entered into the eLT tool to establish a new monitoring station. See the directions in the section: “Using the Surface Water Data Viewer – Look Up Latitude/Longitude to Establish a New Station” in the Basic User Guide on how to obtain lat/long values.

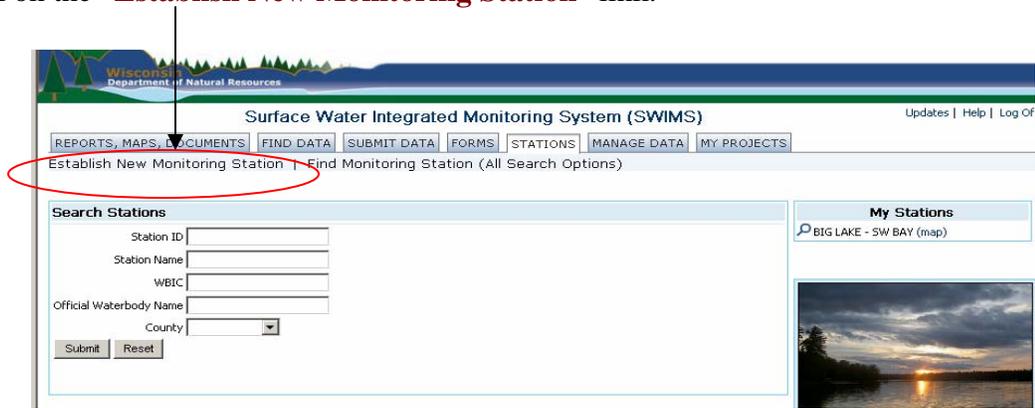
Step 1: Navigate to the Stations Pages

Click on the “**STATIONS**” tab on the SWIMS Home Page.



Step 2: Open “Establish New Monitoring Station” Screen

Click on the “**Establish New Monitoring Station**” link.

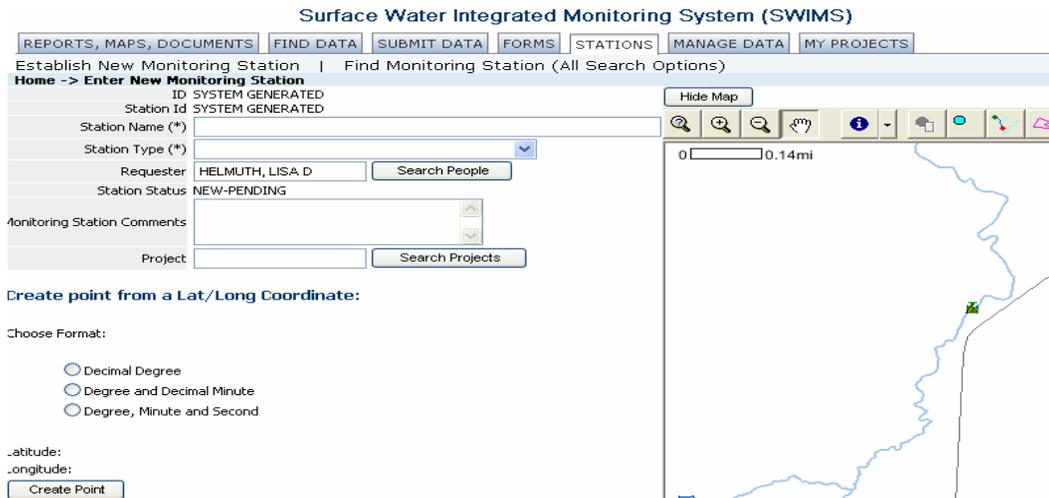


Step 3: Fill in Requested Information, Including Location (lat/long values)

Type in the information in the “**Enter New Monitoring Station**” screen. Your user name will automatically be inserted in the “**Requester**” field.

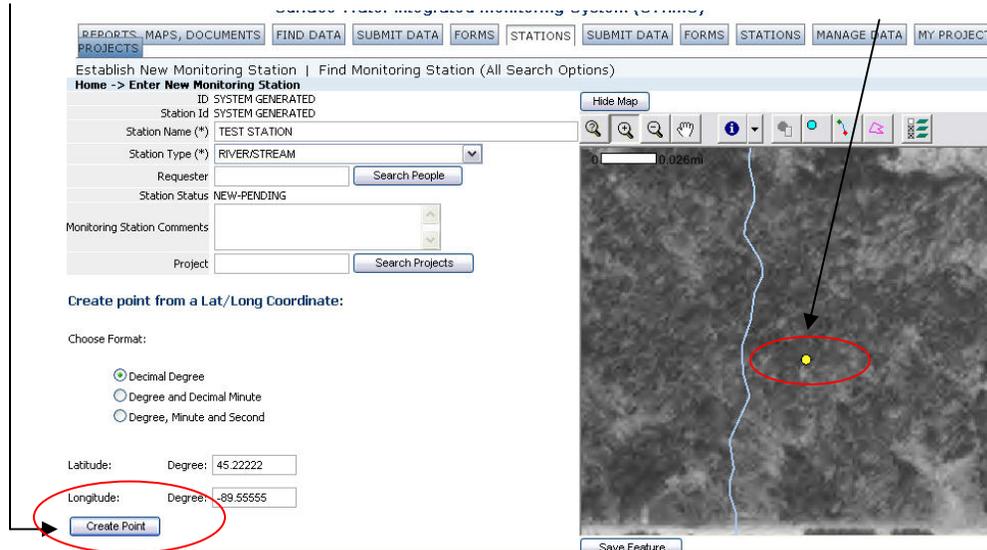
- Waterbody Name – Landmarks (i.e., Pine River At HWY B).
- Station Type (River, Lake, Flowage, Canal, etc.)
- Monitoring Station Comments: Note details regarding this station
- Project (Optional): This field will associate your station with a specific project.
- Location data – Latitude/Longitude (the eLT uses Datum WGS83/91)

Select a format for your Lat/Long coordinates under “**Choose Format:**”.



Step 4: Create Monitoring Station Location Point

Click on the “**Create Point**” button. A yellow dot marks the location of the new monitoring station. If the location is not correct, follow the editing instructions in the section: “Edit a Monitoring Station Location with the eLT.” In this example, the yellow dot is not located on the stream and needs editing to move it to the proper location. If the feature is connected properly to the hydro layer, click on the “**Save Feature**” button. If you do not get a map, see “Appendix B: Embedded Locator Tool (eLT) Troubleshooting Tips.



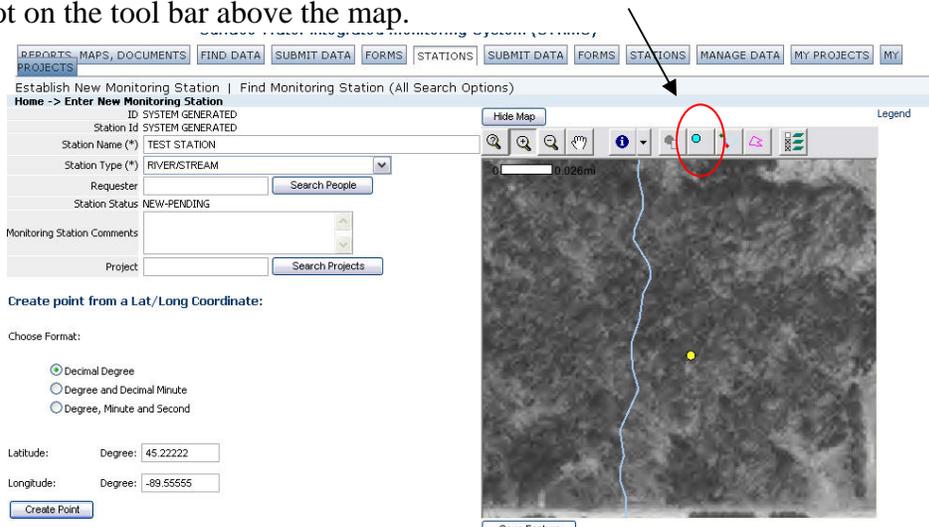
Edit a Monitoring Station Location with the eLT

You may need to edit the monitoring station location if the station point you created did not connect to the hydro layer or there is no Waterbody Identification Code (WBIC) noted.

o Connect Location to the Hydro Layer

Step 1: Connect the Monitoring Station to the Hydro layer

If the yellow dot is not the accurate location of the new monitoring station, click the blue dot on the tool bar above the map.



Step 2: Snap the Station to Hydrolayer

Select the “**Digitize Point (snap to 24K Hydro)**” option. The WBIC information will be linked to the station. Then click on the “**Create Point**” button.

The screenshot shows the 'Enter New Monitoring Station' form on the left and a 'Points' dialog box on the right. The form includes fields for Station Name, Station Type, Requester, Station Status, and Project. The 'Points' dialog box has three radio button options: 'Digitize Point (not on a 24K Hydro Waterbody)', 'Digitize Point (snap to 24K Hydro)' (which is selected and circled in red), and 'Digitize Point and Reference to 24K Hydro'. Below these options are 'Advanced...' buttons. At the bottom of the dialog, the 'Create Point' button is circled in red. A black arrow points from the top of the dialog to the 'Create Point' button.

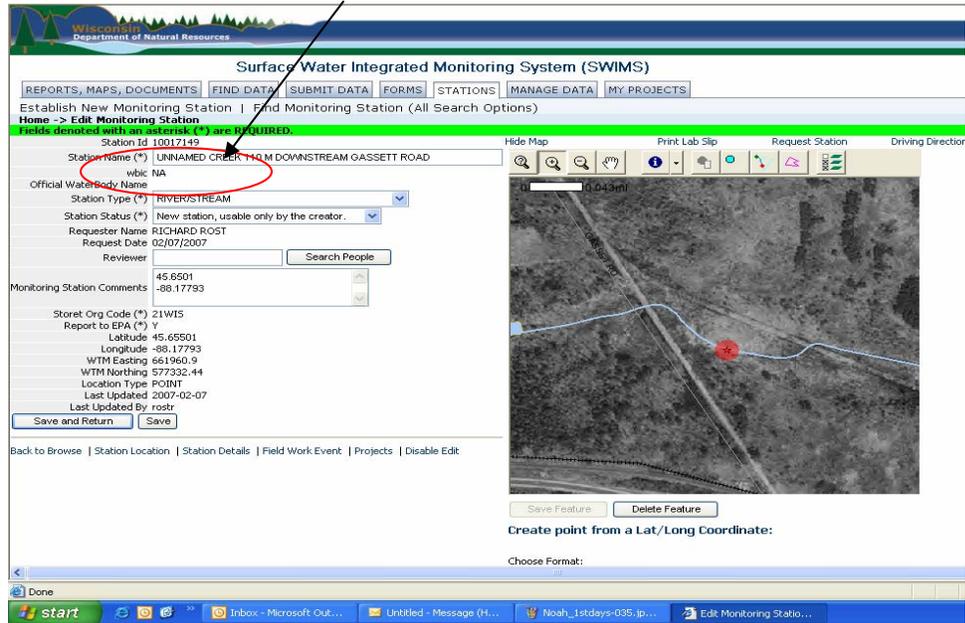
Step 3: Move Station

Click your cursor on the stream where you sampled (a purple dot will appear). The screen will then show a yellow dot where the purple dot was. Click on the “**Save Feature**” button. Wait a few minutes and the monitoring station information will be updated with the correct latitude and longitude values, county, WBIC, etc. Review the station information. If there is a “**NA**” in the “**wbic**” field, follow the steps below to connect the WBIC information to the location.

The screenshot shows the 'Enter New Monitoring Station' form on the left and a map on the right. A yellow dot is visible on the stream in the map. The 'Save Feature' button at the bottom of the map area is highlighted with a black arrow.

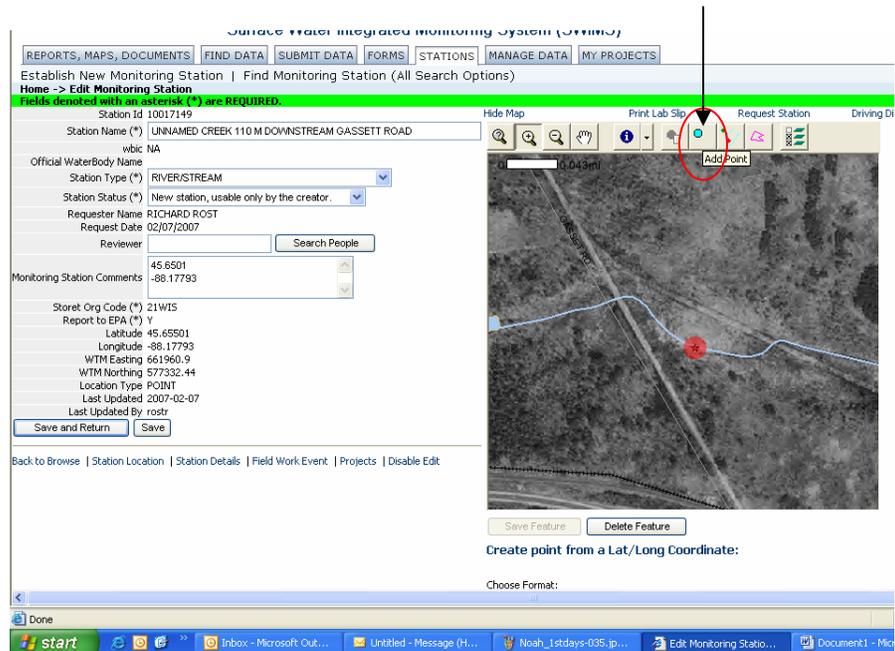
- **Connect WBIC Information to the Location**

If there is no Waterbody Identification Code (WBIC) identified in the **“Enter New Monitoring Station”** screen after you create your monitoring point, you will need to follow these additional steps.



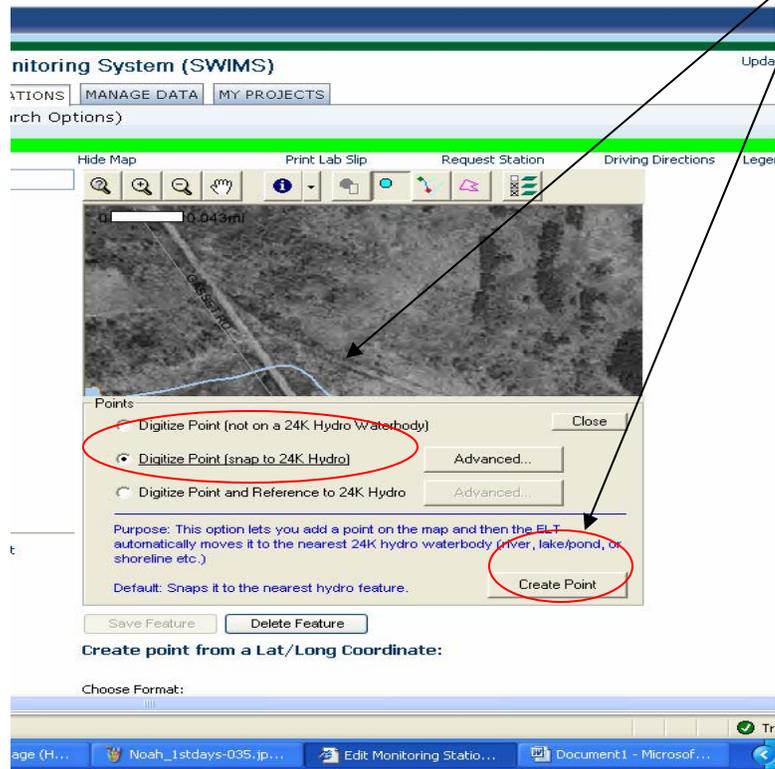
Step 1: Edit Station Info

Click on the blue point to edit your monitoring station location information.



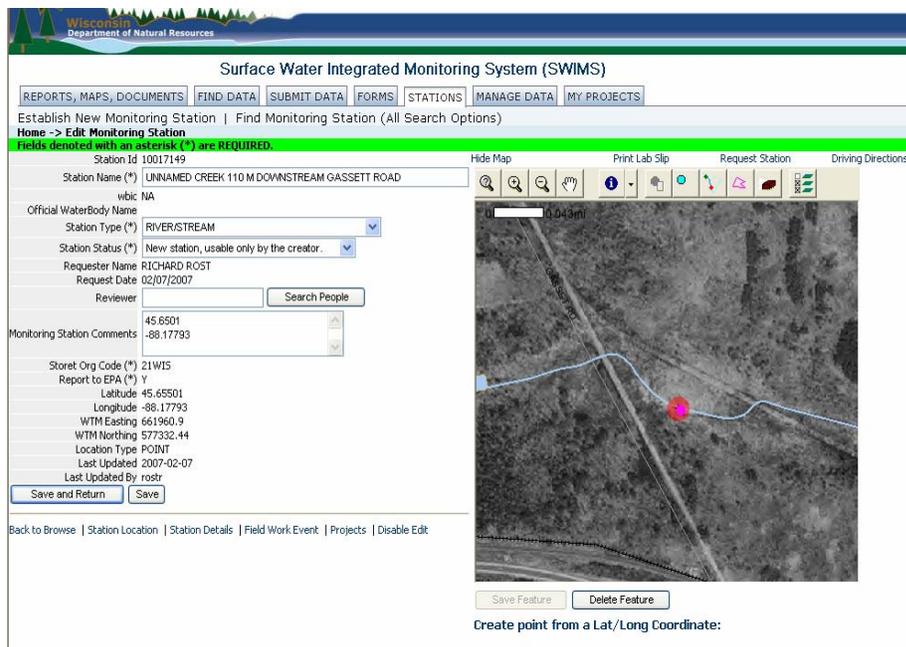
Step 2: Create Point

Select the “**Digitize Point (snap to 24K Hydro)**” option. Click the “**Create Point**” button. The directions will disappear and then you can “redigitize” your point.



Step 3: Re-Intersect Hydro Layer

Click on the existing monitoring station point to place a pink dot on top of it and re-intersect the hydro layer where the WBICs are stored. The spatial location point should connect with the waterbody data.



Step 4: Save Feature

Your “redigitized” monitoring station point should appear as a yellow dot. Click on the “**Save Feature**” button. Click on one of the tool bar icons in the upper left-hand corner of the map to save the map on your computer’s hard drive, email, or print the map.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> Edit Monitoring Station

Fields denoted with an asterisk (*) are REQUIRED.

Station Id 10017149

Station Name (*) UNNAMED CREEK 110 M DOWNSTREAM GASSETT ROAD

wbic NA

Official WaterBody Name

Station Type (*) RIVER/STREAM

Station Status (*) New station, usable only by the creator.

Requester Name RICHARD ROST

Request Date 02/07/2007

Reviewer

Monitoring Station Comments 45.6501
-88.17793

Storet Org Code (*) 21WIS

Report to EPA (*) Y

Latitude 45.65501

Longitude -88.17793

WTM Easting 661960.9

WTM Northing 577332.44

Location Type POINT

Last Updated 2007-02-07

Last Updated By rostr

Save and Return | Save

Back to Browse | Station Location | Station Details | Field Work Event | Projects | Disable Edit

Hide Map | Print Lab Slip | Request Station | Driving

Save Feature | Delete Feature

Create point from a Lat/Long Coordinate:

Step 5: Verify WBIC

The page shows the WBIC information in two places.

Address http://prodoasjava.dnr.wi.gov/swims/editMonitStation.do

Wisconsin Department of Natural Resources

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | M

Establish New Monitoring Station | Find Monitoring Station (All Search Options)

Home -> Edit Monitoring Station

Fields denoted with an asterisk (*) are REQUIRED.

Station Id 10017149

Station Name (*) UNNAMED CREEK 110 M DOWNSTREAM GASSETT ROAD

wbic 620200

Official WaterBody Name UNNAMED

Station Type (*) RIVER/STREAM

Station Status (*) New station, usable only by the creator.

Requester Name RICHARD ROST

Request Date 02/07/2007

Waterbodies

WBIC 620200

Watersheds

Watershed Code GB14

Geographic Manag

GMU Code

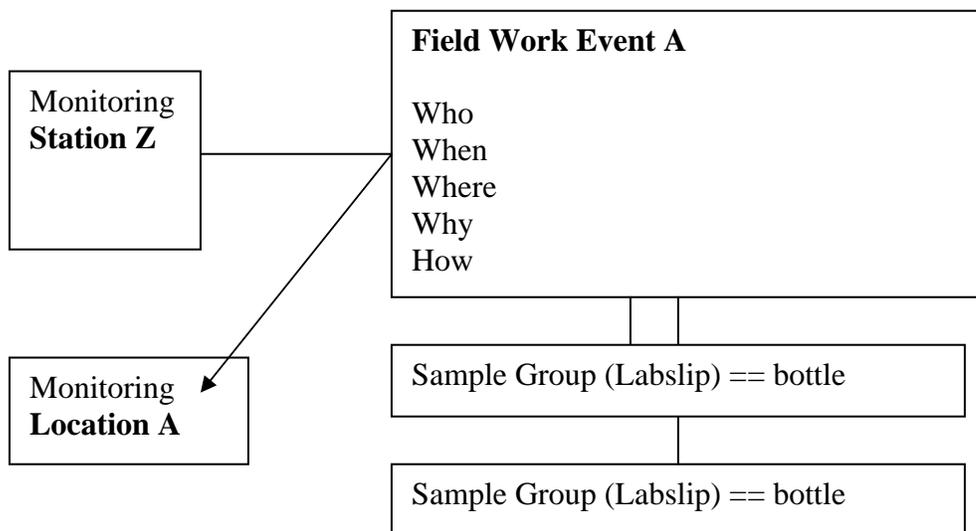
Monitoring Locations and Transect Surveys

The location of your Fieldwork may be more precisely documented through the use of “Monitoring Locations” and in the future, through the use of the transect survey locational data tools.

○ **Monitoring Location**

Monitoring Location allows you to reuse a station, yet continue to document the precise latitude and longitude of your sample in the SWIMS system in a GIS format for more immediate use in map making and data verification.

Connected with each fieldwork event you have the following information:



This diagram shows that Fieldwork Event “A” can reuse existing Monitoring Station “Z” but refine the documentation of the site through digitizing a slightly different “monitoring location (‘A’).

If you do nothing to document the monitoring location, SWIMS will automatically use the station location for the monitoring location (the data is copied over each night). However, if you document the monitoring location, SWIMS will preserve that data, which will be available for mapping and other purposes.

Step 1: Click on the “FIND DATA” tab to find your Fieldwork Event in SWIMS. Click on the “Fieldwork Location” link at the bottom.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | **FIND DATA** | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> Edit Fieldwork Event
Fields denoted with an asterisk (*) are REQUIRED.

Fieldwork Start Date

Fieldwork Start Time (HH:MM AM/PM)

Fieldwork End Date

Fieldwork End Time (HH:MM AM/PM)

Data Collectors: DANIEL HELSEL

Fieldwork Event Status: Scheduled

Station Org. *: 21WS

Station ID #: 10008546

Field Sample ID: 11651587

Field Description:

Report To: DANIEL HELSEL

Report to EPA?: Yes

Comments:

Labslip Account #: WT082

Field Results		DNR Parameter		Type	De:
L	L	R	R		

Summary Results		DNR Parameter		Type	Description
L	R				

Lab Results		DNR Parameter		Type	De:
L	L	R	R		

Back to Browse | Disable Edit | Vertical Measurement(s) | **Fieldwork Location** | Results | Projects | Labslips

Step 2: Edit the location just as you would a monitoring station. See the section: “Edit a Monitoring Station Location with the eLT.”

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | **SUBMIT DATA** | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> Edit Fieldwork Event
Fields denoted with an asterisk (*) are REQUIRED.

Fieldwork Start Date

Fieldwork Start Time (HH:MM AM/PM)

Fieldwork End Date

Fieldwork End Time (HH:MM AM/PM)

Data Collectors: DANIEL HELSEL

Fieldwork Event Status: Scheduled

Station Org. *: 21WS

Station ID #: 10008546

Field Sample ID: 11651587

Field Description:

Report To: DANIEL HELSEL

Report to EPA?: Yes

Comments:

Labslip Account #: WT082

Hide Map Leger

Back to Browse | Disable Edit | Vertical Measurement(s) | Fieldwork Location | Results | Projects | Labslips

Create point from a Lat/Long Coordinate:

Documenting Result Locations

Similarly, there may be situations where you would have taken multiple samples on the same fieldwork event but would like to differentiate each of the specific locations for each “result”. In the example above, the 2 sample groups could be represented by the same monitoring location (A) (i.e., inorganics and organics lab slip data or bugs and inorganics, or inorganics and secchi/d.o. profile data...)

○ **Transect Surveys**

When more complex situations arise, SWIMS will allow you to document the location of the specific sample result. The eLT will be available for this purpose but only in a “read only” mode. The lat/long values will be entered at the time of the transect survey data entry, which will be done through the “forms” area.

For example:

At Station Z

Results for Point 1: **Lat _____ Long _____**

Plant A _____	Presence/Absence
Plant B _____	Presence/Absence
Plant C _____	Presence/Absence

Results for Point 2: **Lat _____ Long _____**

Plant A _____	Presence/Absence
Plant B _____	Presence/Absence
Plant C _____	Presence/Absence

Results for Point 3: **Lat _____ Long _____**

Plant A _____	Presence/Absence
Plant B _____	Presence/Absence
Plant C _____	Presence/Absence

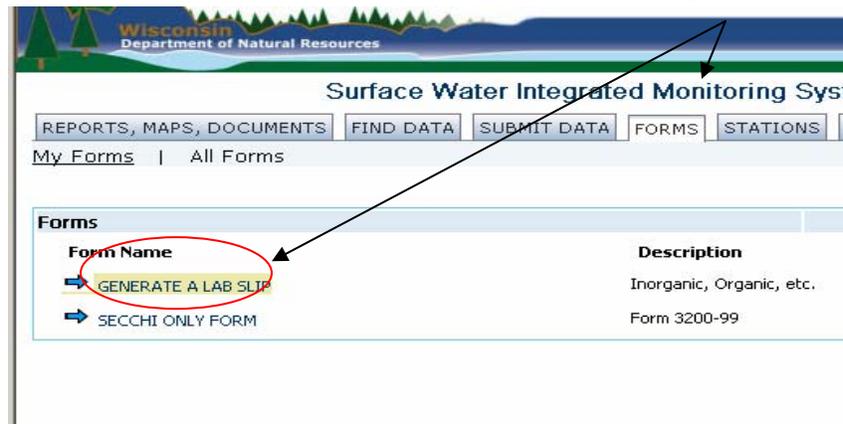
Use the Lab Slip Generator

The Lab Slip Generator feature of SWIMS creates pre-printed forms to accompany monitoring samples submitted for analyses to the Wisconsin State Laboratory of Hygiene. The pre-printed forms identify the project name, collectors, lab account code, monitoring station id, and other important information. Features of the Lab Slip Generator include:

- Links sample data to monitoring stations with GIS location identifiers
 - Automatic charge back of laboratory services to lab account codes
 - Automatic entry of data results from the State Laboratory of Hygiene into the SWIMS data system
 - Tracks fieldwork events at project monitoring stations
- **Select a Form**

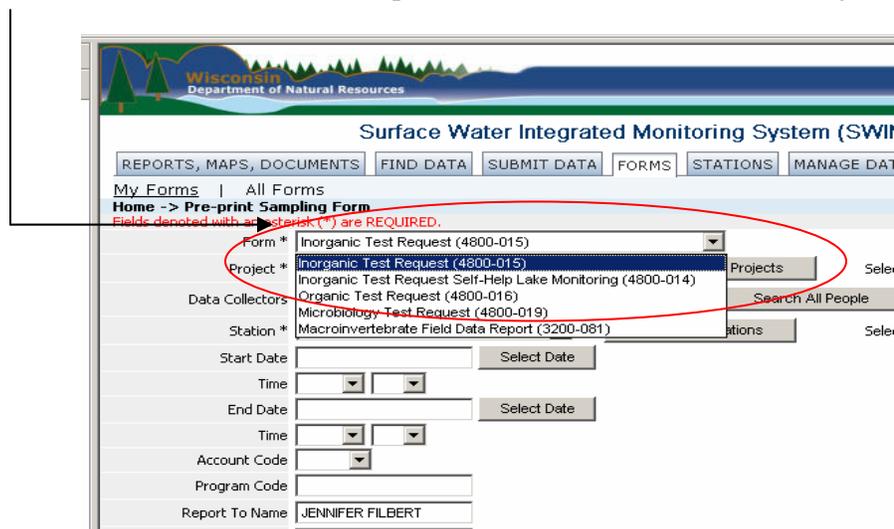
Step 1: Choose the Lab Slip Link

Click on the “**FORMS**” tab, then the “**Generate a Lab Slip**” link.



Step 2: Select a Form

Click on the “**Form***” drop-down arrow, and select the form you wish to use.



- **Select a Project**

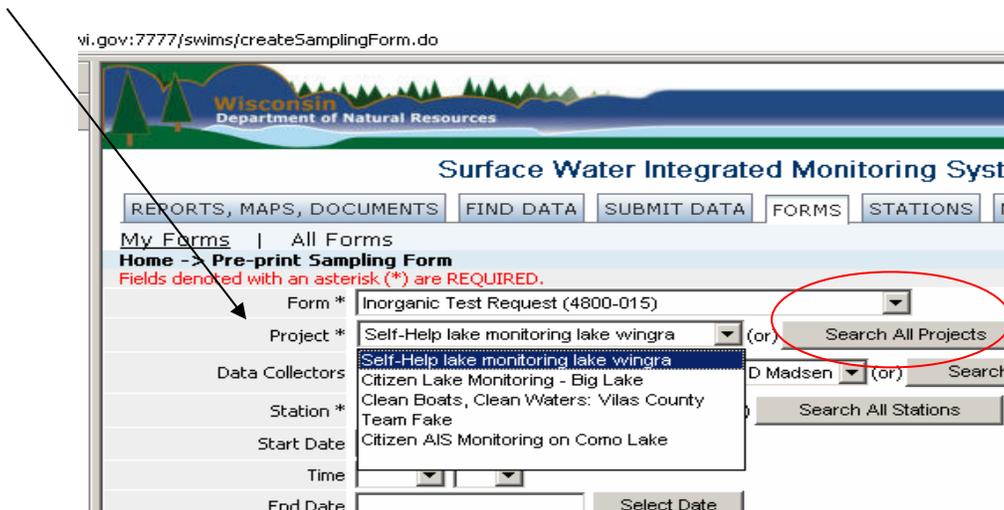
Matching the correct project name to your lab sample is an important step in the Lab Slip Generation process. Your data will be stored in the SWIMS database under the project name that you select when you generate the lab slip.

Projects are hierarchical: project names may be listed generally, regionally (ie., TMDL SER Project), or specifically (Bark Creek TMDL Project). Data should be linked to the most specific project name possible because it provides the most specific description of why the data was collected.

*NOTE: If you want to create a lab slip for a **new project**, contact a file manager (see page 3) to set up your project information in SWIMS. Appendix A shows the database relationships that create the connections between monitoring projects, stations, fieldwork events, collectors, and lab data.*

Step 1: Select a Project

Click on the “**Project***” drop-down arrow. All projects that have your name will show up in the dropdown. Click on the project that corresponds to the most specific location of the monitoring samples you’ve collected. If you do not see your project listed, you can search for your project (see Step 2 below).

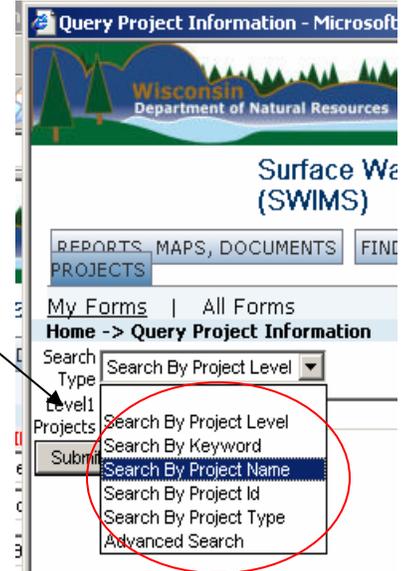


Step 2: Search for a Project

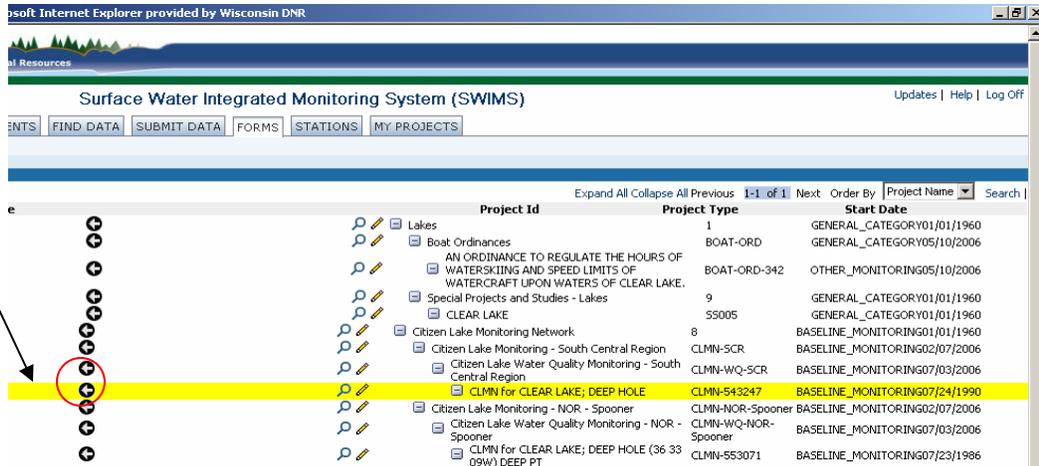
If you do not see your project in the “**Project***” drop-down arrow list, click on the “**Search All Projects**” button.

Step 3: Choose Your Search Type

Click on a search category and type in the requested information. Click on the “**Submit**” button.



In this example, Clear Lake was entered as the project name. Scroll down the listing and select the project name that you wish to use. Use the black “**back arrow**” icon to select and return.



Step 4: Verify Project Name

Verify that the correct project has been selected. The project name is listed in the right-hand column. If your project is not listed, contact a file manager (see page 3) to have your project entered into the SWIMS database.

The screenshot shows the 'Pre-print Sampling Form' in the SWIMS system. The 'Project' dropdown menu is open, and 'Self-Help lake monitoring lake wingra' is selected. This selection is circled in red. An arrow points from the text above to this red circle. Other fields include 'Form *' (Inorganic Test Request (4800-015)), 'Data Collectors' (JENNIFER M FILBERT, DUANE E RILEY, Laura D Madsen), and 'Station *' (133320, LAKE WINGRA - DEEP HOLE). The 'Selected Project' and 'Selected Collectors' fields on the right also display the selected values.

○ Select the Sample Data Collectors

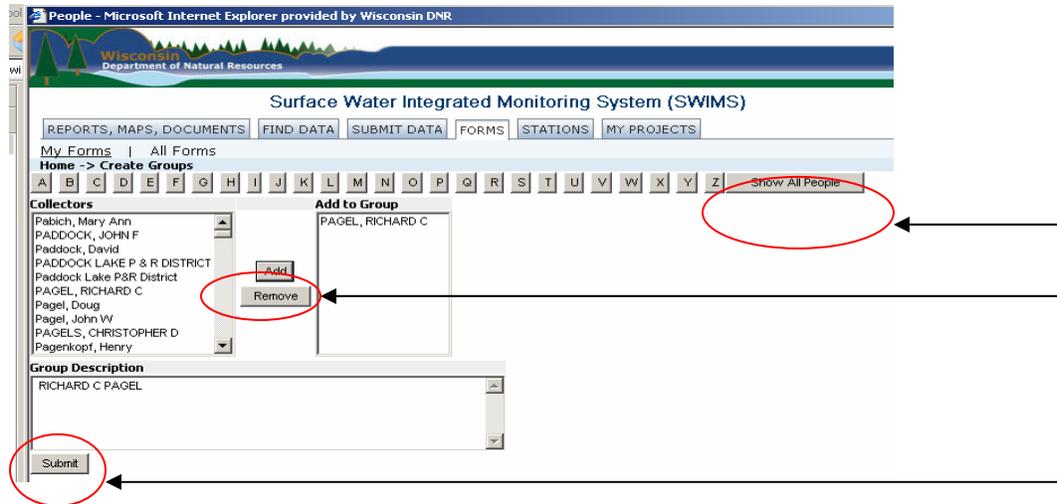
Step 1: View and Select Collectors

Click on the “**Data Collectors**” drop-down arrow list to view and select the collectors for the monitoring sample. The selected collectors are listed in the right-hand column. If there are collectors which need to be added, follow Step 2 below. You can also contact a file manager (see page 3) to have them add or remove collector names.

This screenshot shows the 'Pre-print Sampling Form' with the 'Data Collectors' dropdown menu open. The dropdown list is circled in red and contains the following entries: JENNIFER M FILBERT, DUANE E RILEY, Laura D Madsen; JENNIFER M FILBERT, Fake Staff; FILBERT; FILBERT,FALLOS; FILBERT,Volunteer; FILBERT,Volunteer; FILBERT,Volunteer; FILBERT,Volunteer,BAADE; Volunteer; and Volunteer and Taft. An arrow points from the text above to this red circle. The 'Selected Collectors' field on the right shows 'JENNIFER M FILBERT, DUANE E RILEY, Laura D Madsen', which is also circled in red. The 'Project' field is 'Self-Help lake monitoring lake wingra' and the 'Station' is 'LAKE WINGRA - DEEP HOLE'.

Step 2: Search All People

Click on the “**Search All People**” button in the “**Pre-Print Sampling Form**” screen (see previous example). The “**Create Groups**” screen will appear. The people listed under the project will automatically appear under “**Collectors**”. If there is someone else you need to add that is in the database, but not listed under the project, click on the “**Show All People**” button to obtain an alphabetical list of all collectors in the SWIMS database. Use the scroll bar to move up and down the list, or click on the letter of the alphabet to move to that part of the alphabet. Click on the collector name you want to add to highlight it, and then click on the “**Add**” button. Use the “**Remove**” button to remove collectors from the “**Add to Group**” box. Once you have added all the collector names that collected the monitoring samples, click on the “**Submit**” button.

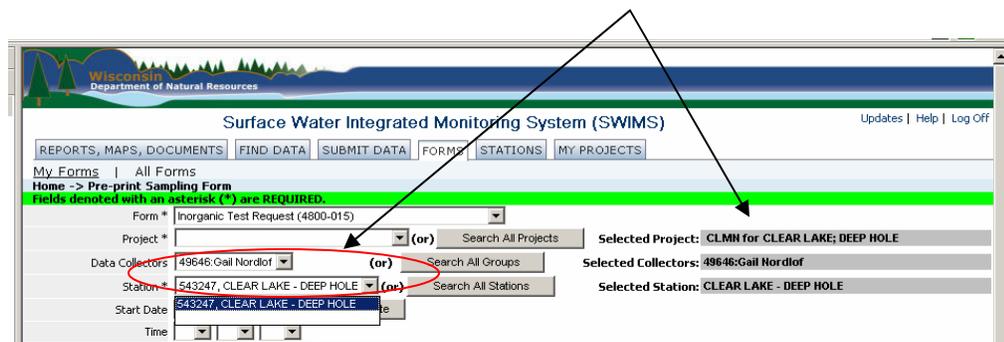


○ Select the Monitoring Station

NOTE: If your samples are for a new monitoring station, you have edit permissions, and training on how to use the embedded Locator Tool (eLT), follow the steps listed in the section: “Establish a New Monitoring Station with the eLT”. If you don’t have eLT training or just need help, contact one of the file managers (see page 3) for assistance in establishing the new monitoring station. You may also use the request form on the “Stations” page to request establishing a station if you don’t have the eLT training.

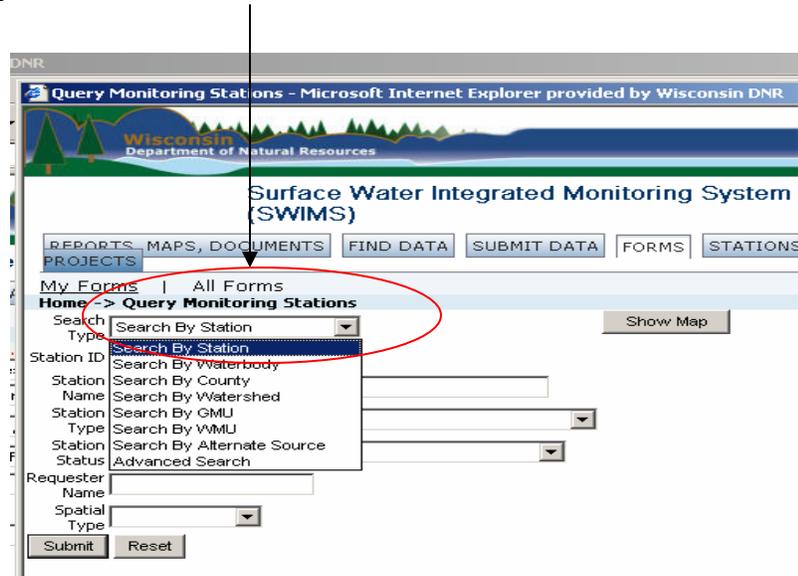
Step 1: Review Monitoring Station Name

Click on the “**Station***” drop-down arrow to review the monitoring stations associated with the project. Click on the monitoring station for the collected sample(s). The selected monitoring station name will appear in the right-hand column. If the correct monitoring station isn’t listed, follow Step 2 below.



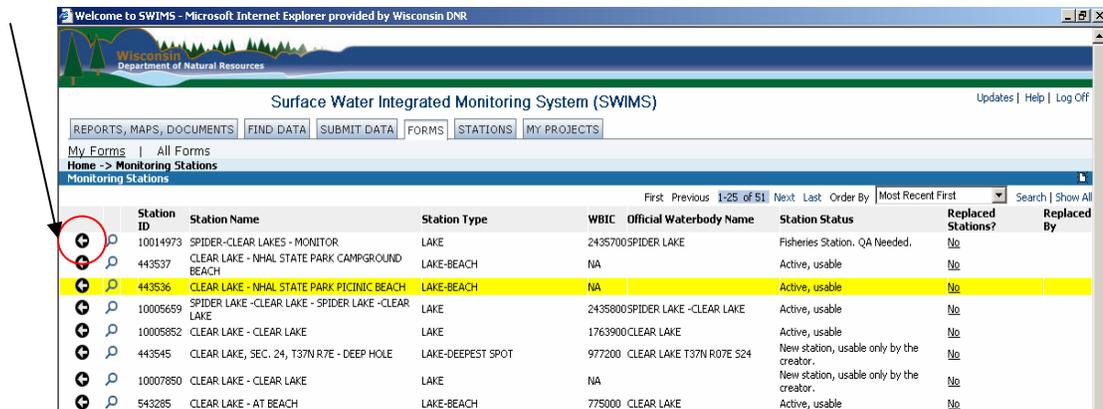
Step 2: Search All Stations

Click on the “**Search All Stations**” button in the “**Pre-print Sampling Form**” Screen. The “**Query Monitoring Stations**” screen will appear. Click on the “**Search**” drop-down arrow and click on a search option. Type in the information requested.



Step 3: Select the Monitoring Station

Clear Lake was entered as the search station by name in the example below. Click on the correct monitoring station to highlight it, and then click on the black “**back arrow**” icon to select the station. The station name will appear on the “**Pre-print Sampling Form**” screen on the left-hand side.



- **Enter the Date and Time (optional)**

You may leave the Start Date/Time and End Date/Time information blank if you don't know what day you will be conducting the sampling. When you enter Date/Time information on the lab slip by hand the Lab types in the data and this passes through the state lab of hygiene and right into SWIMS.

If you are printing out the lab slip and you've already collected the sample or know your planned fieldwork date, enter the monitoring Start Date/Time and End Date/Time.

Wisconsin Department of Natural Resources
Surface Water Integrated Monitoring System (SWIMS)
REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA
My Forms | All Forms
Home -> Pre-print Sampling Form
Fields denoted with an asterisk (*) are REQUIRED.
Form * Inorganic Test Request (4800-015)
Project * Inorganic Test Request (4800-015)
Data Collectors Inorganic Test Request Self-Help Lake Monitoring (4800-014)
Station * Microbiology Test Request (4800-019)
Start Date [Select Date]
Time [Time]
End Date [Select Date]
Time [Time]
Account Code [Account Code]
Program Code [Program Code]
Report To Name JENNIFER FILBERT

- **Select the Account Code**

Use the “**Account Code**” drop-down arrow to select the proper account number to charge the monitoring sampling analyses to. If the project's account code is not listed, contact one of the file managers (see page 3) to add this information to your project's database.

- **Enter the Program Code**

The program code is WT, FH, etc. *NOTE: The “**Report to Name**” information should be generated by the database based upon the user who signed into SWIMS. If this information is not filled in, contact a file manager to add this information to the project database.*

- **Enter the Field Sample Id**

Enter the field sample ID.

- **Select the Number of Lab Slips**

Enter the number of lab slips you want to generate. If you anticipate multiple fieldwork events for a project, you can print out multiple lab slip forms in one batch and keep them for your use as you need them – remember to keep the date and time fields blank so you can fill this information by hand later to submit with the monitoring samples for laboratory analysis. It is important to generate individual lab slips (rather than photocopying one to use for multiple events), because each lab slip has a unique, SWIMS-generated ID that corresponds to one fieldwork event.

Report To City/State/Zip MADISON, WI 53702

Sample Point Desc./Device

Field Sample ID

Multiple-labslip series options Generate a total of labslip(s), adding Day(s) between the start/end dates for each labslip in the series.

Save and Print Select Labslip Parameters

- **Select Lab Slip Parameters**

Click on the “**Select Labslip Parameters**” button in the “**Pre-print Sampling Form**” screen and the “**Check Items**” list screen will appear. Use the checkboxes to identify the monitoring sample type and types of laboratory analyses to be performed for each sample. Click on the “**Save and Return**” button at the bottom of the list.

Wisconsin Department of Natural Resources

Surface Water Integrated Monitoring System

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS ST

My Forms | All Forms

Home -> Pre-print Sampling Form -> Check Items

Sample Type

- Surface Water
- Storm Water
- Sediment

Plastic Quart (946 ml) Bottles

- Total Solids
- Volatile Total Solids
- Suspended Solids
- Vol. Susp. Solids
- Total Dissolved Solids
- CBOD5 Total
- BOD5 Total
- BOD5 Dissolved
- Chlorophyll A
- Alkalinity, pH, and Conductivity
- pH only
- Chloride
- Color

Nutrients Bottle 250 ml

- Manganese
- Mercury
- Molybdenum
- Nickel
- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Vanadium
- Zinc
- Tot.-Phosphorus
- Ammonia-N
- Tot. Dis. Phosphorus
- NO2 + NO3 as Nitrogen
- Chemical Oxygen Demand
- Total Kjeldahl-N

Save and Return

- **Save and Print**

Click on the “**Save and Print**” button at the bottom of the “**Pre-print Sampling Form**” to print out your lab slips.

Sample Point Desc./Device

Field Sample ID

Multiple-lab slip series options Generate a total of lab slip(s), adding Day(s) between the start/end dates for each lab slip in the series.

Save and Print Select Labslip Parameters

Retrieve and Move Sampling Data in Worktables

Sometimes the lab results for the monitoring samples you collected and submitted to the State Lab of Hygiene (SLH) don't get linked to your project. If you did not assign a SWIMS Station ID (formerly STORET Station ID) to a lab slip when you took a sample in the field, then your data will not automatically be returned to SWIMS from the SLH. Instead, your sampling data is placed in worktables in the Lab Data Entry System (LDES).

Data in LDES worktables is essentially unavailable electronically until it can be migrated and linked to a fieldwork event in the SWIMS data system (i.e., station assignment must occur). It is the collector's responsibility to retrieve the data from the LDES worktables, assign a SWIMS Station ID to the data, and migrate the data to SWIMS. Since collectors are now assigning SWIMS Station IDs to lab slips, the need to retrieve and move data from LDES worktables should diminish over time. However, there may be the occasion where you tend to an emergency spill or fish kill and don't have time to establish a station until later. It is still important to establish a station! Until you get a SWIMS Station ID assigned to your submitted data, lab results will remain in the LDES worktables.

The following set of instructions will help you through the process of retrieving your lost or missing sampling data in the LDES worktables and migrating it into SWIMS, which you can do entirely through the SWIMS data system. You are strongly encouraged to do a search with your name as the collector so that you can retrieve and migrate all your outstanding sampling data that is currently stranded in the LDES worktables. You may be surprised at how many results you get! These data records go back to 1986!

○ Retrieve Data in Worktables

Step 1: Search for Data with Problems

Click on the **"FIND DATA"** tab; then click on the **"Worktable Data (Fieldwork With Problems)"** link.

The screenshot shows the SWIMS web interface. At the top, there is a navigation menu with the following items: REPORTS, MAPS, DOCUMENTS, FIND DATA, SUBMIT DATA, FORMS, STATIONS, MANAGE DATA, and MY PROJECTS. The 'FIND DATA' tab is circled in red. Below the navigation menu, the 'Find Data' section is visible, containing several links: 'Monitoring Data (Fieldwork Events)', 'People', 'Worktable Data (Fieldwork With Problems)', 'Monitoring Stations', and 'Projects'. The 'Worktable Data (Fieldwork With Problems)' link is also circled in red. A black arrow points from the 'FIND DATA' tab to this link. To the right of the 'Find Data' section is the 'Monitoring Data - Quick Search' section, which includes a search form with fields for 'Station ID', 'Primary Station Name', and 'Dates' (From and To), along with 'Select Date' buttons and a 'Go' button.

Step 2: Search for Existing Fieldwork Data in LDES Worktables

You can search for lab sample data that is stored in LDES worktables by one or more of the following: Start and/or End Date, Collector Name, Report To Name, Account #, Lab Sample ID, Program Code, Source Code, ID#, ID Point #, Second ID #, Field #, Sample Description, and/or Location Description. The more information you enter for your search, the more refined the results you will receive. Follow these search tips:

- **Search by Collector Name:**

When searching by collector name, enter the collector's last name between % symbols, (for example: %Janssen%). SWIMS will retrieve a complete list of fieldwork data in LDES worktables that is associated with anyone listed as a collector by the name of Janssen to include instances where there is more than one collector listed in the database.

- **Search by Lab Sample ID:**

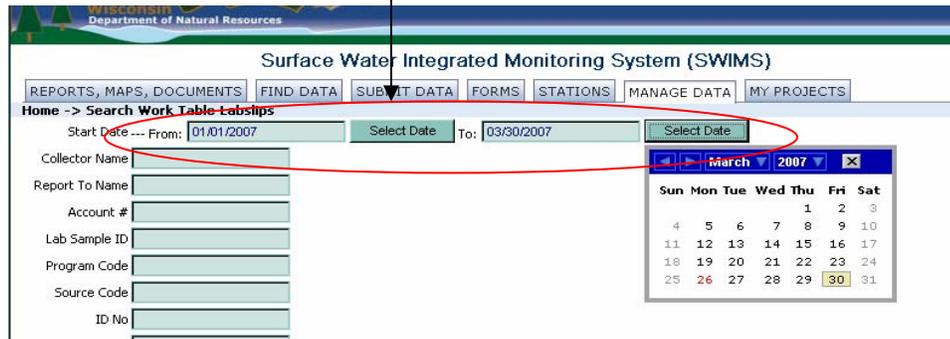
If you are searching for a specific lab slip, enter the lab slip ID number in the “**Lab Sample ID**” field and click on the “**Submit**” button.

The screenshot shows the 'Search Work Table Labslips' form in the SWIMS application. The 'Lab Sample ID' field is highlighted with a red oval and contains the value 'IK032076'. The 'Submit' button at the bottom of the form is also circled in red. Arrows from the text above point to these two elements.

The screenshot shows the results page for the search. A table displays the search results. The first row is highlighted in yellow and contains the following data:

Sample/Labslip ID	Lab ID	Collection Date/Time (Start)	Collector	Report To	Account #	ID No	ID Point No	Second ID No	Field No	Project #	Station ID	Station Name
IK032076	11313379006	26/2000 10:00 AM	JANSSEN	SCOTT SZYMANSKI	LM006				551	LPL68		

- **Search by Date:**
You can search by the sampling date to retrieve all data from a specific time period. Click on the **“Select Date”** buttons to help you pick start and end dates on a calendar.



The above search resulted in a listing of 51 lab samples collected between 1/01/2007 and 03/30/2007.

The screenshot shows the 'Work Table Labslips' page with a table of 51 lab samples. The table has columns for Sample/Labslip ID, Lab ID, Collection Date/Time (Start), Collector, Report To, Account #, ID No, ID Point No, Second ID No, Field No, Project #, and Station ID. The sample IR015073 is highlighted in yellow. A red circle highlights the pencil icon next to the sample ID BR044020.

Sample/Labslip ID	Lab ID	Collection Date/Time (Start)	Collector	Report To	Account #	ID No	ID Point No	Second ID No	Field No	Project #	Station ID
IR014486	11313379001/09/2007 11:15 AM	USGS	BILL ROSE	65038					5-3		
IR014539	11313379001/16/2007 10:30 AM	GORMAN	SESINM	LM013			280400	1		LPL1059	
IR014540	11313379001/16/2007 10:45 AM	GORMAN	SESINM	LM013			280400	2		LPL1059	
TR000212	11313379001/30/2007 12:00 AM	UNKNOWN COLLECTOR	DIANE SCHOENEMANN	AZ001							
BR038756	11313379001/31/2007 01:10 PM	DANIELLE FUCHS	KOPERC	WT082				1289800		5881	
IR015073	11313379001/31/2007 01:10 PM	FUCHS	KOPERC	WT082				1289800		5881	
BR038826	11313379002/01/2007 01:15 PM	HAZUGA	HAZUGM	WT082				1427400		BEF4	
IR015090	11313379002/01/2007 01:15 PM	HAZUGA	HAZUGM	WT082				1427400		BEF4	
IR015096	11313379002/01/2007 04:20 PM	AMRHEIN	AMRHEJ	RR009						ARGYLE-1	
IR015789	11313379002/16/2007 01:30 PM	FERGUSON	BOSCHT	WT042				16300	1		
IR015881	11313379002/20/2007 10:11 AM	HAZUGA	HAZUGM	WT082				1506800		SR7	
BR041414	11313379002/20/2007 10:11 AM	HAZUGA	HAZUGM	WT082	MISC			1506800		SR7	MISC
IR016178	11313379002/24/2007 09:00 AM	MAGER	LISKAR	WT042						DCRA-022A	
IR016180	11313379002/24/2007 09:30 AM	MAGER	LISKAR	WT042						DCRA-602A	
IR016182	11313379002/24/2007 10:00 AM	MAGER	LISKAR	WT042						DCRA-603A	
IR016179	11313379002/25/2007 09:30 AM	MAGER	LISKAR	WT042						DCRA-022B	
IR016181	11313379002/25/2007 09:30 AM	MAGER	LISKAR	WT042						DCRA-602B	
IR016183	11313379002/25/2007 10:10 AM	MAGER	LISKAR	WT042						DCRA-603B	
IR016841	11313379003/08/2007 03:45 PM	USGS	DAVID GRACZYK	NP013		053789				BOW-5	053789
BR043977	11313379003/11/2007 05:00 PM	LISKA	AMRHEJ	WT074						533	
BR043619	11313379003/11/2007 05:45 PM	CAIN	AMRHEJ	RR009						5-2	
IR016807	11313379003/11/2007 05:45 PM	CAIN	AMRHEJ	RR009						5-2	
BR043620	11313379003/11/2007 06:00 PM	CAIN	AMRHEJ	RR009						5-37	
IR016806	11313379003/11/2007 06:00 PM	CAIN	AMRHEJ	RR009						5-37	
BR044020	11313379003/12/2007 10:29 AM	USGS	BILL SELBIG/USGS	NP013						SHOP 27L	

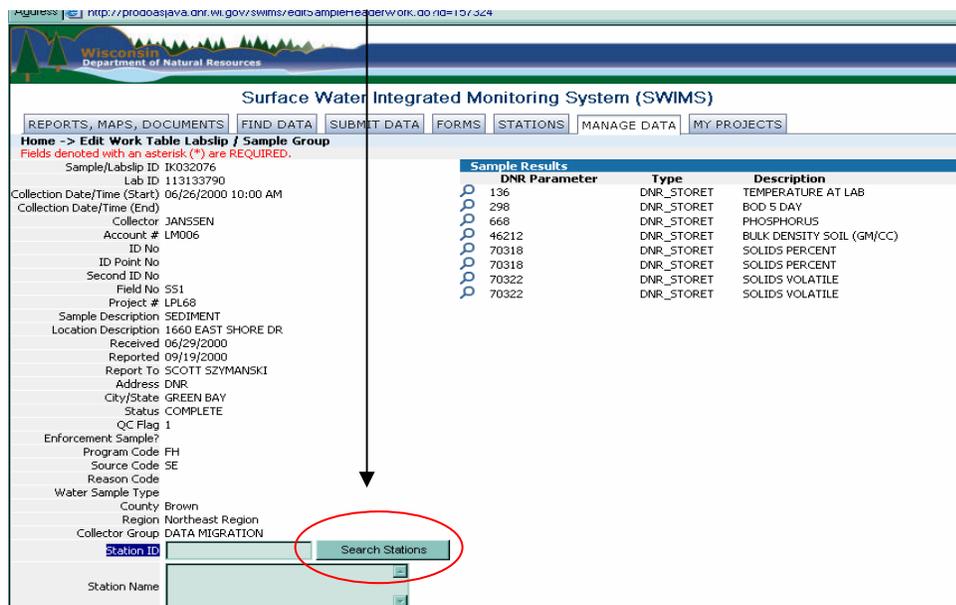
Step 3: View/Edit Sample Results

Click on the **“pencil”** icon to view (and later edit) sampling data from a fieldwork event in the **“Work Table Labslips”** page.

- **Move Data in Worktables**

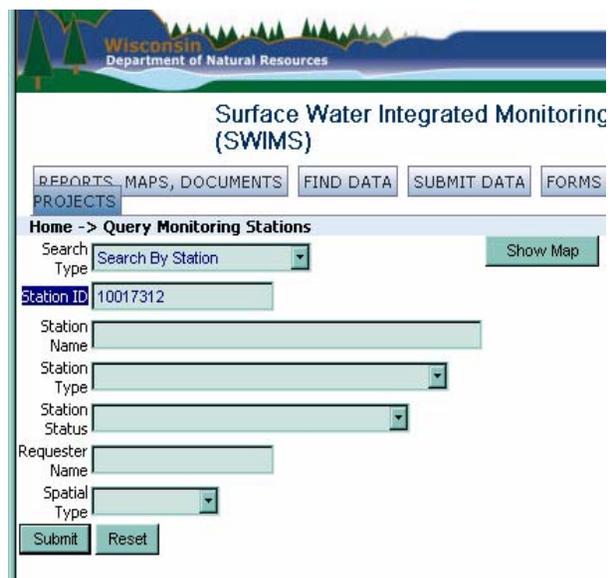
Step 1: Search for the Monitoring Station

Notice that in the **“Edit Work Table Labslip/Sample Group”** screen example below, the sample results show the lab slip ID, collection date, collector name, account #, and other sampling information, but not the monitoring station ID number. This data is in an LDES worktable (and not yet linked to a monitoring station ID in SWIMS) because the station ID field on the lab slip was left blank. If a station ID was entered for the fieldwork event but it is not a valid SWIMS station ID, the invalid ID will appear in the station ID field. Either way (Station ID is blank or invalid), in order to process your data and migrate it into SWIMS, you must assign a SWIMS station ID to your fieldwork event. To begin your search, click on the **“Search Stations”** button.



Step 2: Enter Search Information

Follow the steps outlined in the section: **“Find Your Monitoring Station in SWIMS”** to search for the correct station for your data. Remember that you can search by Station ID (quickest way), Station Name, WBIC, Waterbody Name, County, or Alternate Source ID in addition to other search options. Choose the method you want to use to search, enter the information, and click on the **“Submit”** button.



Step 3: Select Station

When you have found the station, select it by clicking on the black “back arrow” icon.

1. Wisconsin Department of Natural Resources

2. Surface Water Integrated Monitoring System (SWIMS) Updates | Help | Log Off

3. REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

4. Home -> Monitoring Stations

Monitoring Stations

First Previous 1-1 of 1 Next Last Order By Most Recent First Search | Show All

	Station ID	Station Name	Station Type	WBIC	Official Waterbody Name	Station Status	Replaced Stations?	Replaced By
	10017312	1660 EAST SHORE DR -- 2	LAKE-BEACH	117800	BAY BEACH LAGOONS	New station, usable only by the creator.	No	

Download Select and Return

Step 4: Save and Process From Work to Live Tables

The station ID you chose now shows up in the Station ID field, and its name shows up in the Station Name field. You can now click on the “Save and Process From Work to Live” button.

Address http://prpdoasjava.dnr.wi.gov/swims/editSampleHeader/Work.do?id=157324

Fields denoted with an asterisk (*) are REQUIRED.

Sample/Lab ID IK032076

Lab ID 113133790

Collection Date/Time (Start) 06/26/2000 10:00 AM

Collection Date/Time (End)

Collector JANSSEN

Account # LM006

ID No

ID Point No

Second ID No

Field No SS1

Project # LPL68

Sample Description SEDIMENT

Location Description 1660 EAST SHORE DR

Received 06/29/2000

Reported 09/19/2000

Report To SCOTT SZYMANSKI

Address DNR

City/State GREEN BAY

Status COMPLETE

QC Flag 1

Enforcement Sample?

Program Code FH

Source Code SE

Reason Code

Water Sample Type

County Brown

Region Northeast Region

Collector Group DATA MIGRATION

Station ID 10017312 Search Stations

Station Name 1660 EAST SHORE DR -- 2

Processing Status NO STATION

Save and Process From Work to Live Save

DNR Parameter	Type	Description	Result	Units
136	DNR_STORET	TEMPERATURE AT LAB	ICED	C
298	DNR_STORET	BOD 5 DAY	*377	MG/KG
668	DNR_STORET	PHOSPHORUS	404.	MG/KG
46212	DNR_STORET	BULK DENSITY SOIL (GM/CC)	0.950	GDRY/CCWET
70318	DNR_STORET	SOLIDS PERCENT	40.2	%
70318	DNR_STORET	SOLIDS PERCENT	53.2	%
70322	DNR_STORET	SOLIDS VOLATILE	**	%
70322	DNR_STORET	SOLIDS VOLATILE	2.9	%

Disable Edit

Step 5: Review Sampling Data

Congratulations! Your sampling data has successfully been assigned to a monitoring station in SWIMS. You can review the lab slip information and sampling data results on the “**View Fieldwork Event**” screen.

Fieldwork Event Details:

- Fieldwork Start: 06/26/2000 10:00 AM
- Fieldwork End:
- Project(s): LAKE MGT PLANNING FY00
- Data Collector(s): DATA MIGRATION
- Fieldwork Event Status: COMPLETE
- Field Sample ID: 551
- Station Org: 21WIS
- Station ID: 10017312
- Station Name: 1660 EAST SHORE DR -- 2
- Station Type: LAKE
- WBIC: NA
- Waterbody Name:
- Field Description: SEDIMENT
- Report To: SCOTT SZYMANSKI
- Report to EPA? Y
- Comments: SEDIMENT
- Labslip Account #: LM006

Results Table:

Field Results							
L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
Summary Results							
L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
Lab Results							
L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
		136		DNR_STORET TEMPERATURE AT LAB	ICED	C	
		298		DNR_STORET BOD 5 DAY	*377	MG/KG	
		668		DNR_STORET PHOSPHORUS	404.	MG/KG	
		46212		DNR_STORET BULK DENSITY SOIL (GM/CC)	0.950	GDRY/CCWET	
		70318		DNR_STORET SOLIDS PERCENT	40.2	%	
		70318		DNR_STORET SOLIDS PERCENT	53.2	%	
		70322		DNR_STORET SOLIDS VOLATILE	**	%	
		70322		DNR_STORET SOLIDS VOLATILE	2.9	%	

Back to Browse | Vertical Measurement(s) | Fieldwork Location | Results | Projects | Labslips | Enable Edit | Download

Currently, you are logged in. For security purposes, you will be logged off automatically after 15 minutes of inactivity, or you can log out now.

Verify Fieldwork Event Information

Step 1: Search for Fieldwork Event

To verify that the lab sampling data is now linked with the correct station (SWIMS is updated instantly), click on the “**Find Data**” tab. Click on the “**Monitoring Data (Fieldwork Events)**” link. Enter your search information and click the “**Submit**” button.

Find Data

Monitoring Data (Fieldwork Events)
Monitoring data from the State Lab of Hygiene, the field, and from other labs.

Resources of Int
Resources of Interest significance.
Find:

- Critical Habi
- Eurasian W.
- Lake Grant
- NPS Grant 1
- Upland prot
- High Quality
- Sediment Ir
- Sturgeon W
- Walleye W
- Wild Rice W
- Zebra Muss

Search Fieldwork Events

Search Type: Search By Station

Station ID: 10017312

Primary Station Name:

Station Type:

Submit Reset

Step 2: Select Fieldwork Event

Click on the “**magnifying glass**” icon (or the first “**pencil**” icon) to select the fieldwork event.

Surface Water Integrated Monitoring System (SWIMS) Updates | H

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

Home -> Fieldwork Events Generate Labslip

Fieldwork Start	Lab Slip Account #	Project(s)	Data Collectors	Status	Field Sample ID	Station ID	Station Name	WBIC	Watt Nam
06/26/2000 10:00 AM	LM006	LAKE MGT PLANNING FY00	DATA MIGRATION	COMPLETE	SS1	10017312	1660 EAST SHORE DR -- 2	117800	BAY BE LAGOON

Download

Currently, you are logged in.
For security purposes, you will be logged off automatically after 15 minutes of inactivity, or you can log out now.

Step 3: Review Fieldwork Data

Review and verify that the data transferred from the worktables is now linked to the correct station. You can also review the lab slip information and results on this screen.

Address http://prodosjava.dnr.wi.gov/swims/editFieldData.do?id=16077933

Home -> Edit Fieldwork Event
Fields denoted with an asterisk (*) are REQUIRED.

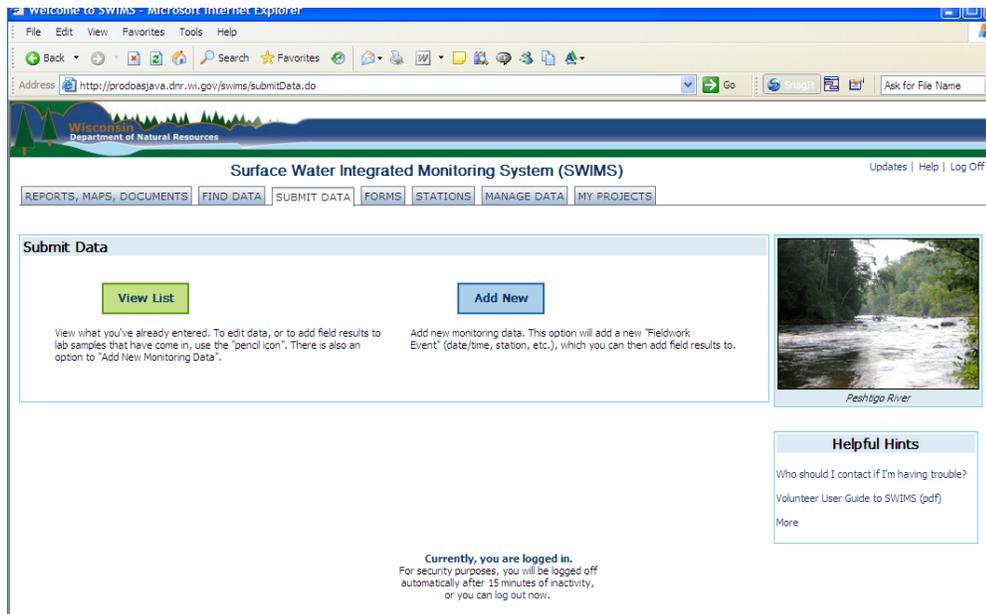
Fieldwork Start Date: 06/26/2000
Fieldwork Start Time (HH:MM AM/PM): 10:00 AM
Fieldwork End Date: [Select Date]
Fieldwork End Time (HH:MM AM/PM): [Select Date]
Data Collectors: DATA MIGRATION
Fieldwork Event Status: Complete
Station Org.: 21VMS
Station ID*: 10017312
Field Sample ID: SS1
Field Description: SEDIMENT
Report To: SCOTT SZYMANSKI
Report to EPA?: Yes
Comments: SEDIMENT
Lab Slip Account #: LM006

L	L	R	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
				136	DNR_STORET	TEMPERATURE AT LAB	ICED	C	
				298	DNR_STORET	BOD 5 DAY	*377	MG/KG	
				668	DNR_STORET	PHOSPHORUS	404	MG/KG	
				46212	DNR_STORET	BULK DENSITY SOIL (GM/CC)	0.950	GDRY/CCWET	
				70318	DNR_STORET	SOLIDS PERCENT	40.2	%	
				70318	DNR_STORET	SOLIDS PERCENT	53.2	%	
				70322	DNR_STORET	SOLIDS VOLATILE	**	%	
				70322	DNR_STORET	SOLIDS VOLATILE	2.9	%	

Save and Return Save

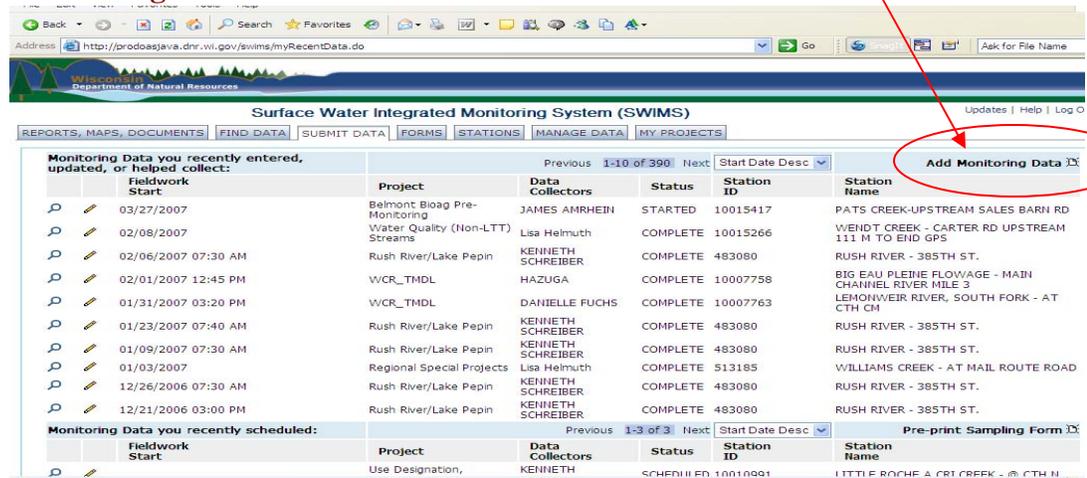
Enter Data Using Forms

You can use the “**SUBMIT DATA**” tab to enter data from field work notes and data collected in field work events that will not be analyzed at the State Lab of Hygiene. Click on the “**SUBMIT DATA**” tab and select the “**View List**” button to add data to recent data or “**Add New**” button to add new fieldwork event data.



○ View List of Field Work Events to Add Data

Step 1: Find the Fieldwork Event that you would like to add data to. If you don't see a fieldwork to add to and need to create a new fieldwork, click on “**Add Monitoring Data**” link.



Step 2: Click on the “**pencil**” icon to edit the fieldwork event i.e., add data to the event using the data entry wizard/forms....

Address: http://prodoasjava.dnr.wi.gov/swims/createDynamicForm.do

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Surface Water Integrated Monitoring System (SWIMS) Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

Home -> Enter Monitoring Data
Fields denoted with an asterisk (*) are REQUIRED.

Project * Baseline Monitoring (or) Search All Projects Selected Project: Baseline Monitoring

Data Collectors * Lisa Helmuth (or) Search All People Selected Collectors: Lisa Helmuth

Station * 10017156, HUSHER CREEK, 80 M UPSTREAM OF STH 38 (or) Search All Stations Show Map Selected Station: HUSHER CREEK, 80 M UPSTREAM OF STH 38

Start Date * Select Date

Time

Form * Inorganic Test Request-Field Results

Next

Optional Fields

End Date Select Date

Time

Comments

Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc. . .

Currently, you are logged in.
For security purposes, you will be logged off automatically after 15 minutes of inactivity, or you can log out now.

Step 3: Select the form you will need to use for entering your data from the “**Form***” drop-down arrow list.

Enter Monitoring Data - Microsoft Internet Explorer

Address: http://prodoasjava.dnr.wi.gov/swims/createDynamicForm.do

Wisconsin Department of Natural Resources

Surface Water Integrated Monitoring System (SWIMS) Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

Home -> Enter Monitoring Data
Fields denoted with an asterisk (*) are REQUIRED.

Project * CLMN AT CHEROKEE LAKE (or) Search All Projects Selected Project: CLMN AT CHEROKEE LAKE

Data Collectors * JULIA RILEY (or) Search All People Selected Collectors: JULIA RILEY

Station * 10001238, CHEROKEE LAKE - CHEROKEE LAKE (or) Search All Stations Show Map Selected Station: CHEROKEE LAKE - CHEROKEE LAKE

Start Date * Select Date

Time

Form * Inorganic Test Request-Field Results

Next

Optional Fields

End Date Select Date

Time

Comments

Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc. . .

Currently, you are logged in.
For security purposes, you will be logged off automatically after 15 minutes of inactivity, or you can log out now.

Step 4: Fill in the information in the “Enter Monitoring Data” screen.

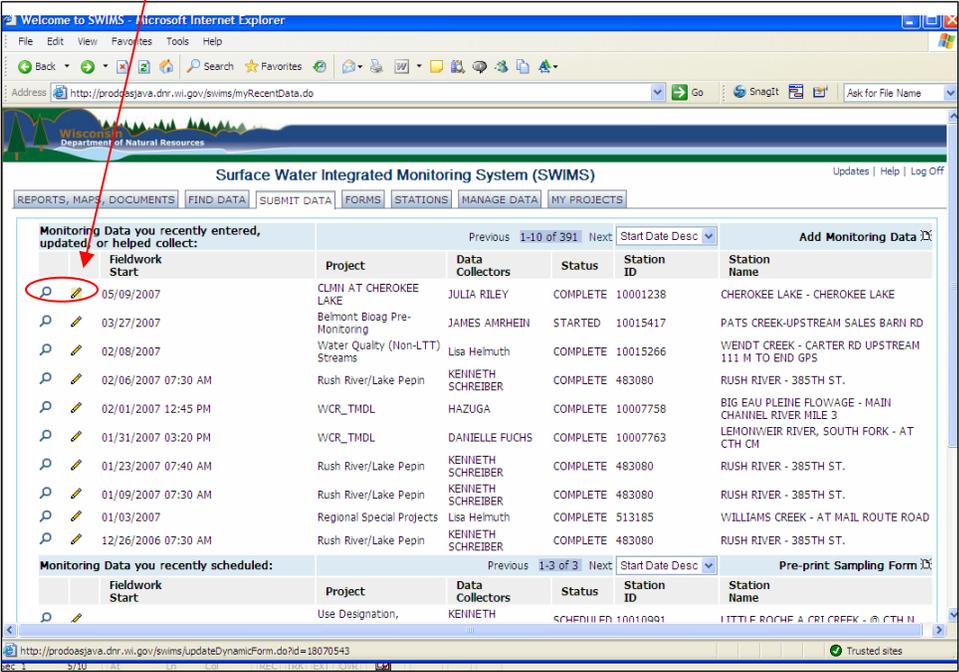
Step 5: Selecting the Inorganic Test Request – Field Results form will bring you to this screen. Enter the result information you wish to add to the fieldwork event and click on the “Save and Return to List” button.

Parameter	Result	Units	Method
TEMPERATURE FIELD	15	DEGREES C	
AMBIENT AIR TEMPERATURE - FIELD	25	DEGREES C	
DISSOLVED OXYGEN FIELD	7	MG/L	
PH FIELD	6	SU	
SECCHI DEPTH - FEET	6	FEET	
SECCHI DEPTH		METERS	
SECCHI DEPTH HIT BOTTOM	N	Y/N	
CLOUD COVER	75	%	
CONDUCTIVITY FIELD	200	UMHOS/CM	
GAGE HEIGHT FEET	5	FEET	
STREAM FLOW	6	CFS	
STREAM FLOW - CFS		CFS	
FLOW RATE MGD		MGD	
DEPTH TO GROUNDWATER	100	FEET	
BOTTOM OF SAMPLING INTERVAL - (FEET)	6	FEET	
BOTTOM OF SAMPLING INTERVAL - F/M		FEET	
BOTTOM OF SAMPLING INTERVAL (METERS)		METERS	
TURBIDITY, FIELD NEPHELOMETRIC NTU	34	NTU	

Step 6: When you finish entering data, you will be brought back to this screen. To view your fieldwork event with your new data, click on the “**magnifying glass**” icon.

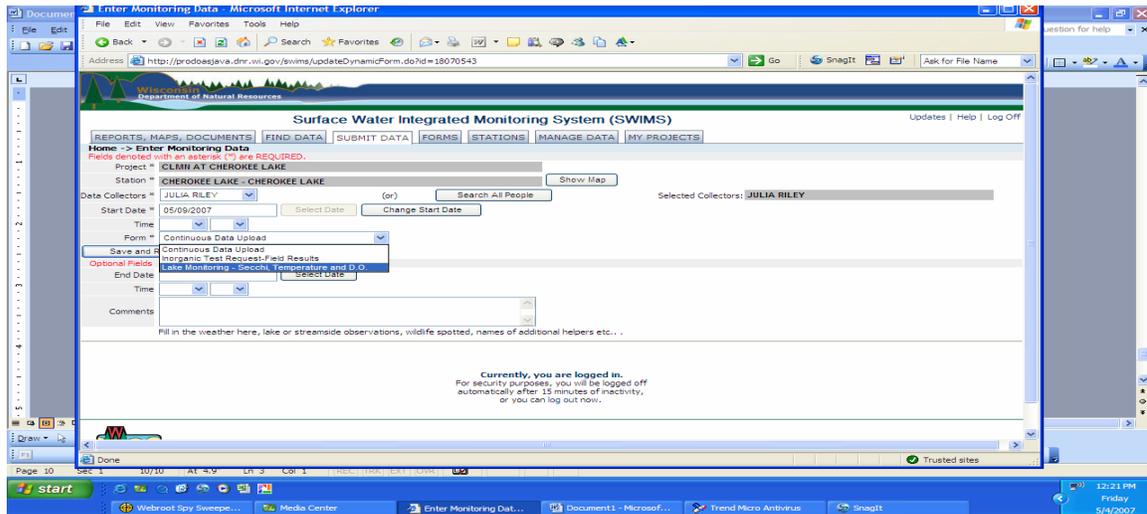


Step 7: Once you have uploaded your data, you can select an additional form to add more information to your fieldwork event. Click on the “**pencil**” icon to return you to the “**Enter Monitoring Data**” screen again to select the next form.

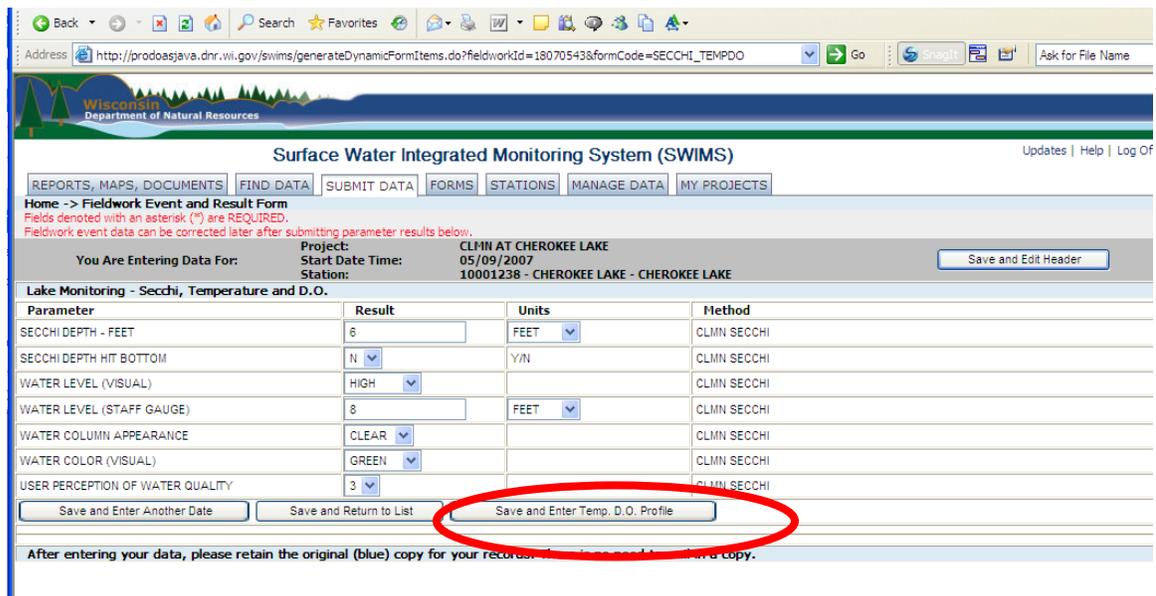


- The Secchi, Temperature, and DO form:

Step 1: Select the “**Monitoring Secchi, Temperature, and DO**” form from the drop-down arrow list in the “**Enter Monitoring Data**” screen:



Step 2: The next screen is the “**Fieldwork Event and Result Form**” screen for the initial data entry screen of secchi depth. Add your result data and then click on the “**Save and Enter Temp. DO. Profile**” button. If you want to change information about the date and time of the fieldwork or add comments you can click on the “**Save and Edit Header**” button to take you back to the “**Enter Monitoring Data**” screen.



[Note the “**Save and Enter Temp. D.O. Profile**” button]

Step 3: Enter the temperature and D.O. profile data in the “**Fieldwork Event and Temp. D.O. Profile**” screen.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

Home -> **Fieldwork Event and Temp. D.O. Profile**

Fields denoted with an asterisk (*) are REQUIRED.
Fieldwork event data can be corrected later after submitting Temp D.O. profile results below.

You Are Entering Data For: Project: CLMN AT CHEROKEE LAKE
Start Date Time: 05/09/2007
Station: 10001238 - CHEROKEE LAKE - CHEROKEE LAKE

Temperature and Dissolved Oxygen Profile
Please enter your Temperature/D.O. profile here.

Depth (*)	Units (*)	Temp. (*)	Units (*)	D.O. (*)
1	FEET	2	DEGREES F	5
2	FEET	2	DEGREES F	5
3	FEET	2	DEGREES F	5
4	FEET	2	DEGREES F	5
5	FEET	2	DEGREES F	5
6	FEET		DEGREES F	5
	FEET		DEGREES F	
	FEET		DEGREES F	

Step 4: When you have completed entering your data, you can navigate through the “**magnifying glass**” icon to see your data in the standard fieldwork event format. To download information, click on the “**Download**” link at the bottom of the left-hand side of the “**View Fieldwork Event**” screen.

View Fieldwork Event - Microsoft Internet Explorer

Address: http://prodoasjava.dnr.wi.gov/swims/viewFieldData.do?d=18070543

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS

Home -> **View Fieldwork Event**

Fieldwork Start: 05/09/2007
Fieldwork End: [blank]
Project(s): CLMN AT CHEROKEE LAKE
Data Collector(s): JULIA RILEY
Fieldwork Event Status: COMPLETE
Field Sample ID: [blank]
Station Org: 21WIS
Station ID: 10001238
Station Name: CHEROKEE LAKE - CHEROKEE LAKE
Station Type: LAKE
WBIC: NA
Waterbody Name: [blank]
Field Description: [blank]
Report To: [blank]
Report to EPA? Y
Comments: [blank]
Label Account #: [blank]

Field Results

L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
		DNR_STORET TEMPERATURE FIELD			15	DEGREES C	
		DNR_STORET TEMPERATURE FIELD			2	DEGREES F	
		DNR_STORET TEMPERATURE FIELD			2	DEGREES F	
		DNR_STORET TEMPERATURE FIELD			2	DEGREES F	
		DNR_STORET TEMPERATURE FIELD			2	DEGREES F	
		DNR_STORET TEMPERATURE FIELD			2	DEGREES F	
		DNR_STORET AMBIENT AIR TEMPERATURE - FIELD			25	DEGREES C	
		DNR_STORET CLOUD COVER			75	%	
		DNR_STORET STREAM FLOW - CFS			6	CFS	
		DNR_STORET GAGE HEIGHT FEET			5	FEET	
		DNR_STORET CONDUCTIVITY FIELD			200	UMHOS/CM	
		DNR_STORET DISSOLVED OXYGEN FIELD			7	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET PH FIELD			6	SU	

Summary Results

L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET PH FIELD			6	SU	

Lab Results

L	R	DNR Parameter	Type	Description	Result	Units	Present/Absent
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET DISSOLVED OXYGEN FIELD			5	MG/L	
		DNR_STORET PH FIELD			6	SU	

Download

Download Data

Follow these steps to create excel spreadsheets of data results.

Step 1: Find Your Fieldwork Events

Click on the “**FIND DATA**” tab. Then click on the “**Monitoring Station (Fieldwork Events)**” link. Search by the field(s) most useful to you (using “**Advanced Search**” if necessary) to get the results you’re looking for. Once you’re on the “**Fieldwork Event**” screen, scroll down (if necessary) to the bottom of the screen and click on the “**Download**” link in the lower left-hand corner. *NOTE: You can also download data from the “**STATIONS**” tab by navigating to the “**View Monitoring Stations**” screen. The screen looks different, but the process is the same.*

A NOTE OF CAUTION: The SWIMS data system has its limits! If you attempt to download more than 20,000 records (results) at once, you will get an error message.

List of Fieldwork Events To Be Downloaded

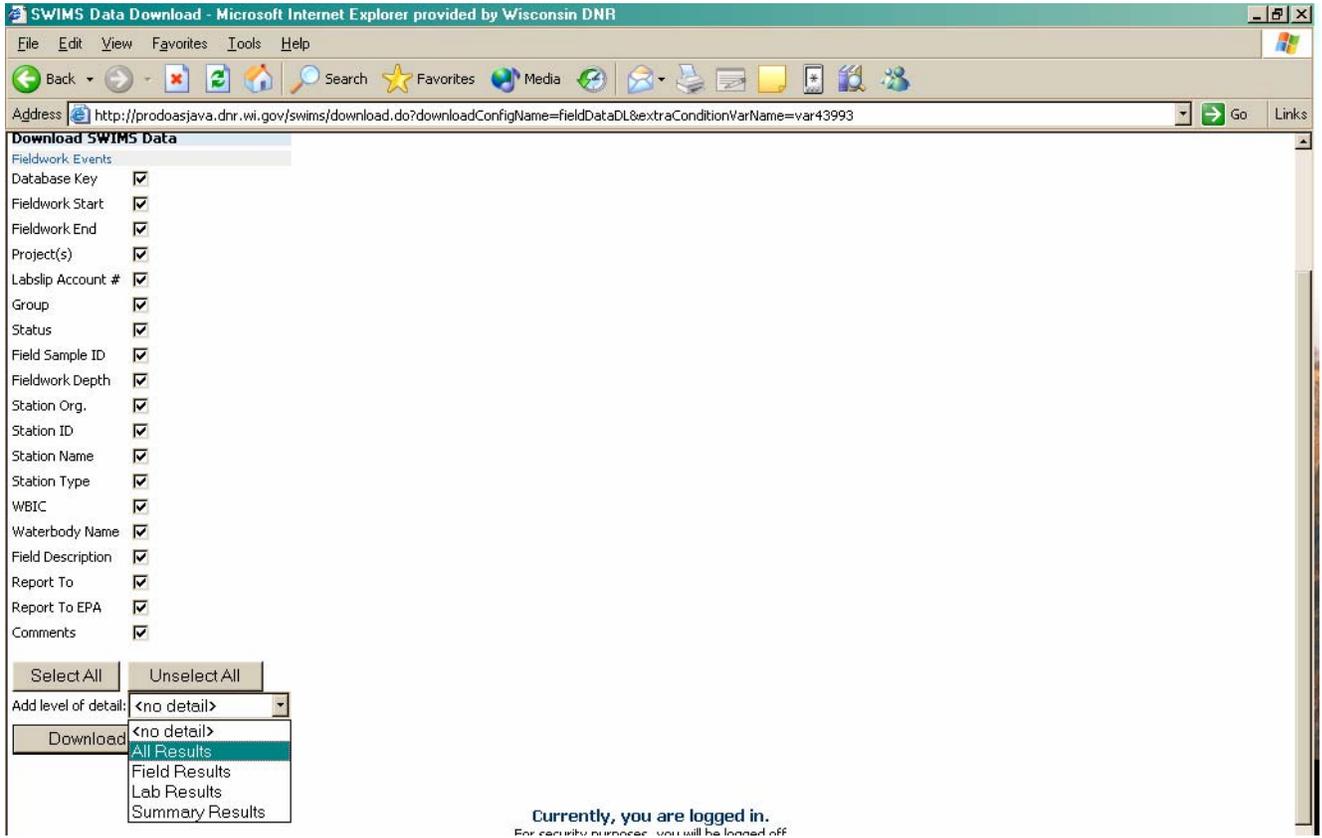
Date	Description	Status	Location
10/19/1982	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
08/19/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
08/11/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
07/20/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
06/17/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
06/16/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
05/21/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
04/20/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
04/15/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
01/11/1981	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
12/18/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
11/20/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
10/16/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
09/18/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
08/29/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
08/21/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
07/17/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
06/19/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
05/22/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
04/17/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
03/20/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON
02/21/1980	Migrated from STORET Legacy	COMPLETE	MILL CREEK - HEWITT S D 1 STP LAGOON

Download

Shortcut to download.do?downloadConfigName=fieldDataDL&extraConditionVarName=var43927

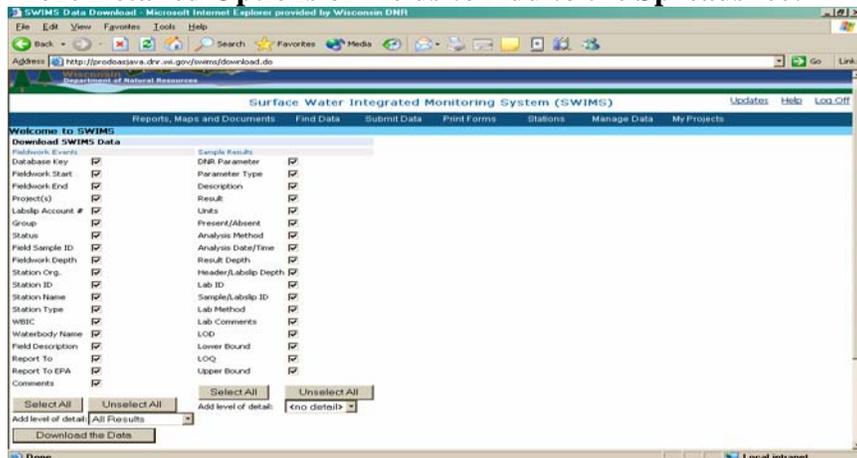
Step 2: Choose the fields you want to appear on the spreadsheet by checking the boxes. Click on the **“Select All”** button to check all boxes. Choose the level of detail you’d like to see from the **“Add Level of Detail”** dropdown list.

Options of Fields to Add to the Spreadsheet



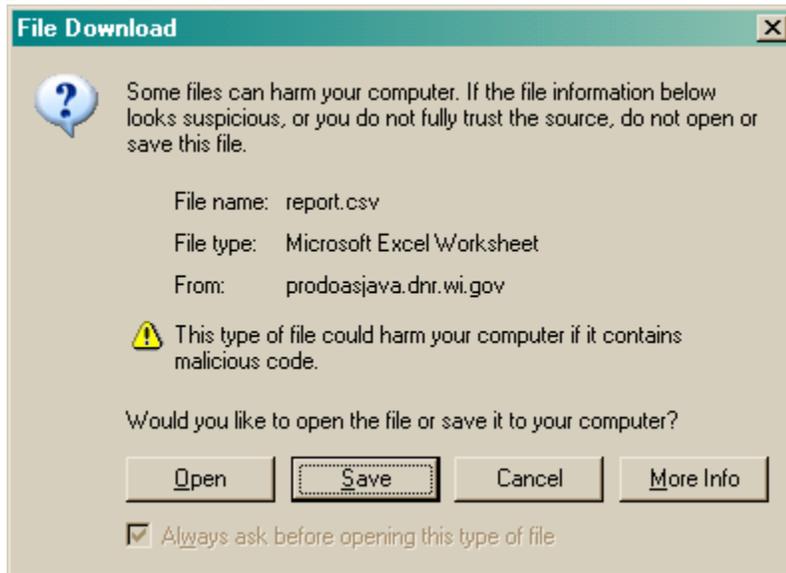
Step 3: Choose additional fields of detail (parameters, results, units, etc.) that you want to appear on the spreadsheet by checking the boxes in the second column that appears. (Again, click the **“Select All”** button to check all boxes.) When you’re done with checking the options you want, click on the **“Download the Data”** button.

More Detailed Options of Fields to Add to the Spreadsheet



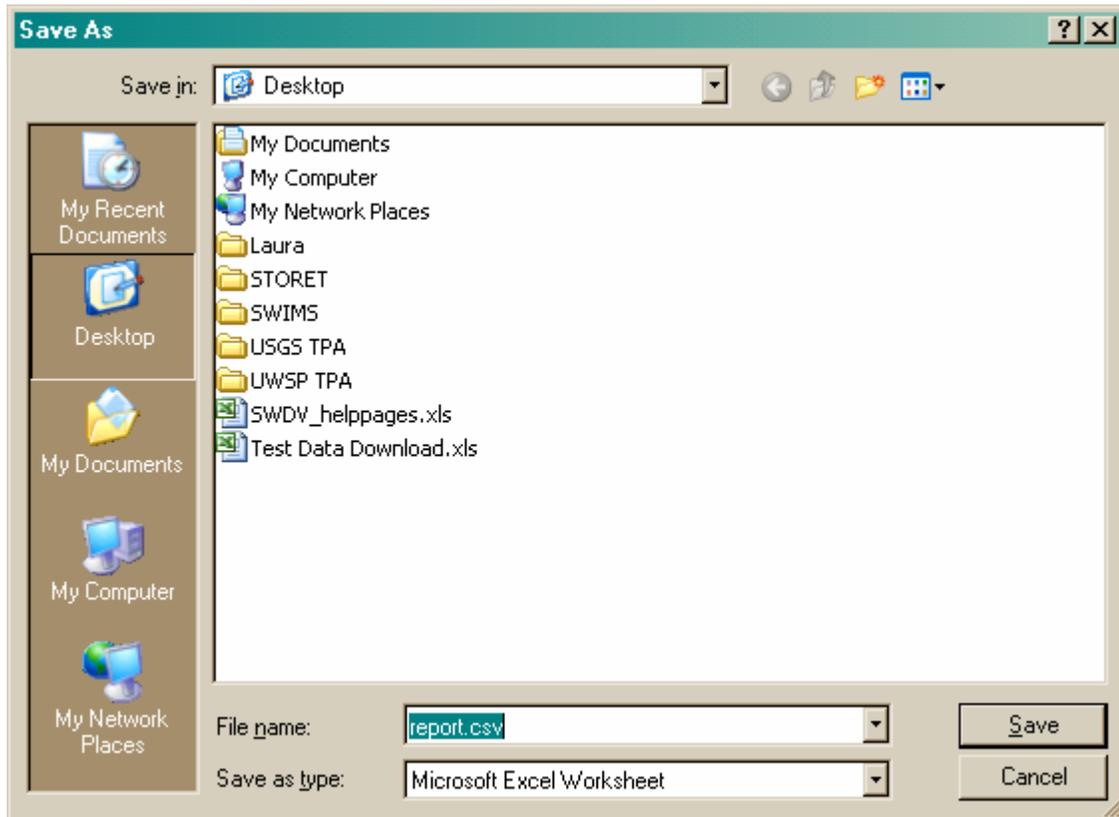
Step 4: The **“File Download”** box will appear. Click on the **“Save”** button to save the file to your computer.

File Download Box



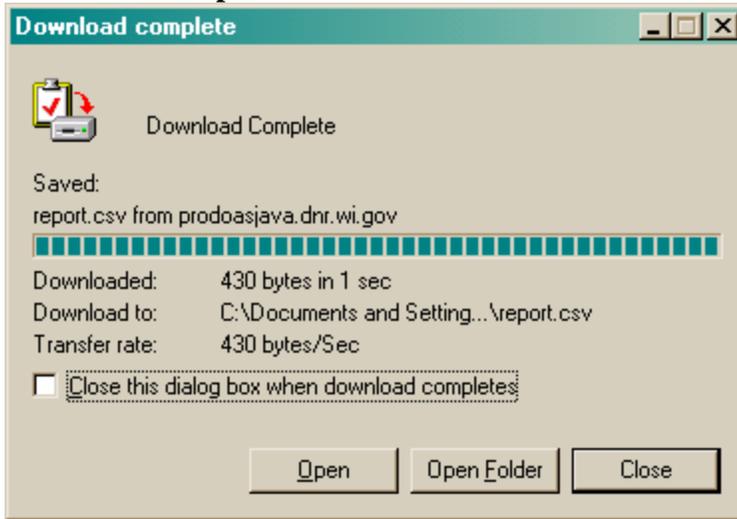
Step 5: Save the file as a Microsoft Excel Worksheet under **“Save as type”**.

Save Box



Step 6: A “**Download Complete**” box will run. When the download is complete, click on the “**Open**” button to open the file.

Download Complete Box



Step 7: The data will appear in an Excel spreadsheet. You can now arrange it in a format of your choosing, analyze the data, and send it out for data viewing by others.

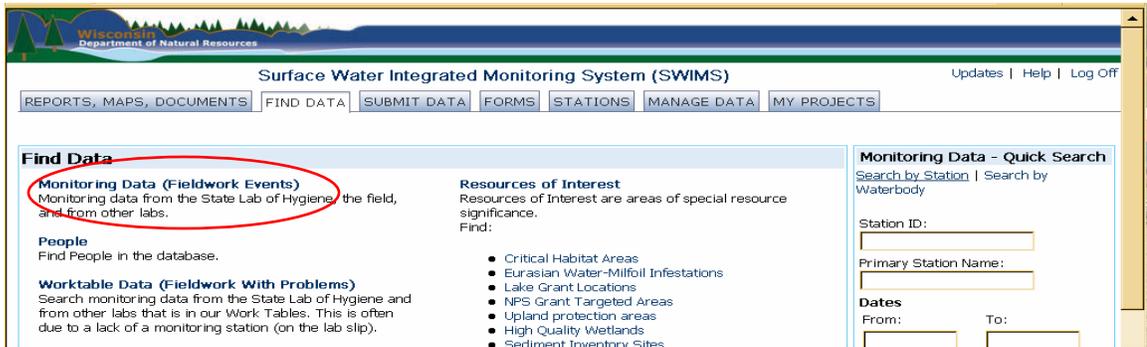
SWIMS Data Downloaded into Excel Spreadsheet

S	T	U	V	W	X	Y	Z	AA	
1	Comments	DNR Parameter	Parameter Type	Description	Result	Units	Present/Absent	Analysis Method	Analysis Date/
2		32210	DNR_STORET	CHLOROPHYLL A UNCORRECTED	*<1	UG/L			10/02/2001
3		80082	DNR_STORET	BOD 5 DAY CARB	<2.0	MG/L			08/15/2001
4		136	DNR_STORET	TEMPERATURE AT LAB	ICED	C			08/15/2001
5		940	DNR_STORET	CHLORIDE	441	MG/L			08/30/2001
6		665	DNR_STORET	PHOSPHORUS TOTAL	3.58	MG/L			09/07/2001
7		671	DNR_STORET	PHOSPHATE ORTHO DISS	*3.54	MG/L			08/15/2001
8		608	DNR_STORET	NITROGEN NH3-N DISS	0.055	MG/L			08/23/2001
9		615	DNR_STORET	NITROGEN NO2-N TOTAL	0.008	MG/L			08/15/2001
10		625	DNR_STORET	NITROGEN KJELDAHL TOTAL	*0.66	MG/L			09/19/2001
11		631	DNR_STORET	NITROGEN NO3+NO2 DISS (AS N)	18.8	MG/L			08/23/2001
12		530	DNR_STORET	RESIDUE TOTAL NFLT (TOTAL SUSPENDED SOLIDS)	ND	MG/L			08/20/2001
13		535	DNR_STORET	RESIDUE VOL NFLT	ND	MG/L			08/20/2001
14									

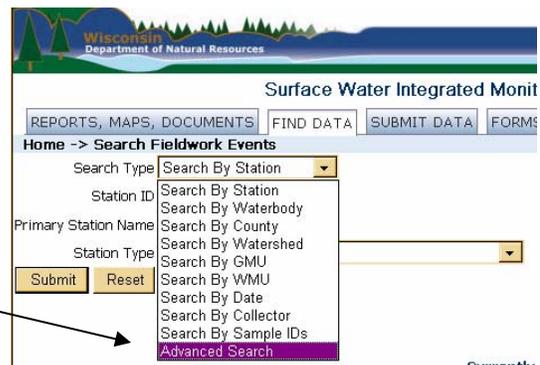
Find Data: Advanced Searches

○ Search by Multiple Variables

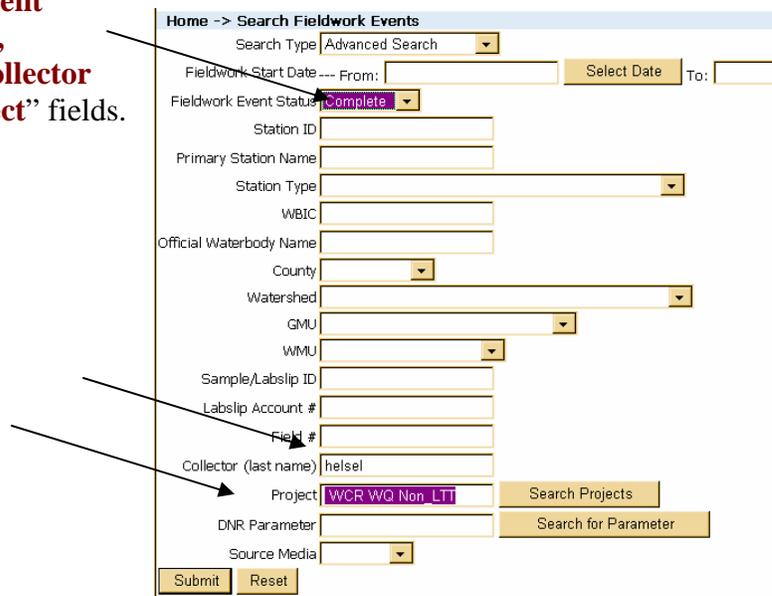
Here are some tips to remember when searching for fieldwork. In the **“FIND DATA”** tab, click on **“Monitoring Data (Fieldwork Events)”** link.



In order to make your search as specific as possible, you can search by a variety of fields at the same time. To maximize your search options, click on the drop-down arrow in the **“Search Type”** field, and choose **“Advanced Search”** from the drop-down list.



Try searching for fieldwork (or lab slips) using the **“Fieldwork Event Status”** (e.g., **Scheduled, Complete, Started**), **“Collector (last name)”**, and **“Project”** fields. Click on **“Submit.”**



*A NOTE OF CAUTION: Be careful when searching for generated lab slips (Scheduled). Often, there may not be a start date on the lab slip, so using the “**Fieldwork Start Date**” field for these searches may not return all the results you want.*

The previous search resulted in a listing of 10 completed fieldwork events/samples collected by Dan Helsel for the WCR_WQ_Non_LTT project.

From here, you can go into the individual records to view or edit the sample results, add information to the existing fieldwork events, or download (all) the data from the fieldwork events listed.

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS											
Home -> Fieldwork Events											
Fieldwork Events											
Generate Labslip [Go]											
Previous 1-10 of 10 Next Order By Collection Date (desc.) Search Show All											
	Fieldwork Start	Labslip Account #	Project (s)	Data Collectors	Status	Field Sample ID	Station ID	Station Name	WBIC	Waterbody Name	
	02/21/2007	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ECC-1	623201	ELK CREEK - SWEDE VALLEY RD, TN RD NENE SEC 14 T22 R9W	1782500	ELK CREEK	
	01/16/2007 12:01 PM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ETR1	10014637	TREMPEALEAU RIVER AT CTH W	1769900	TREMPEALEAU RIVER	
	01/16/2007	FH039	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ECC1	623201	ELK CREEK - SWEDE VALLEY RD, TN RD NENE SEC 14 T22 R9W	1782500	ELK CREEK	
	12/14/2006 09:13 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ECC1	623201	ELK CREEK - SWEDE VALLEY RD, TN RD NENE SEC 14 T22 R9W	1782500	ELK CREEK	
	12/14/2006 08:20 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ETR1	10014637	TREMPEALEAU RIVER AT CTH W	1769900	TREMPEALEAU RIVER	
	11/14/2006 08:00 AM	FH039	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	ECC-1439867	623201	ELK CREEK - SWEDE VALLEY RD, TN RD NENE SEC 14 T22 R9W	1782500	ELK CREEK	
	11/14/2006 08:00 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	14398794	10014637	TREMPEALEAU RIVER AT CTH W	1769900	TREMPEALEAU RIVER	
	10/18/2006 10:51 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	11980169	10014637	TREMPEALEAU RIVER AT CTH W	1769900	TREMPEALEAU RIVER	
	10/18/2006 10:10 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	11982905	623201	ELK CREEK - SWEDE VALLEY RD, TN RD NENE SEC 14 T22 R9W	1782500	ELK CREEK	
	10/18/2006 08:16 AM	WT069	WCR_WQ Non_LTT	DANIEL HELSEL	COMPLETE	11980223	10014634	MORRISON CREEK AT HWY K	1714200	MORRISON CREEK	

○ **Search by Parameter**

You can search for fieldwork by specific parameters. In the “**DNR Parameter**” field on the “**Advanced Search Fieldwork Events**” screen, click on the “**Search for Parameter**” button.

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS	
Home -> Search Fieldwork Events	
Search Type	Advanced Search
Fieldwork Start Date --- From:	Select Date To: Select Date
Fieldwork Event Status	
Station ID	
Primary Station Name	
Station Type	
WBIC	
Official Waterbody Name	
County	
Watershed	
GMU	
WMU	
Sample/Labslip ID	
Labslip Account #	
Field #	
Collector (last name)	
Project	Search Projects
DNR Parameter	Search for Parameter
Source Media	
Submit	Reset

If you know the specific parameter code you're searching for, enter it in the “**Parameter Code**” field. (For macroinvertebrate data searches, 80027 is for IBI, and 80028 is for HBI. If you're looking for other macroinvertebrate metric parameters, search by “8002%” or “8003%”.) Click on the “**Submit**” button.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> Query DNR Result Parameters

Parameter Code: 80027

Description:

Parameter Type:

Submit (circled in red) | Reset

When you have found the parameter, select it by clicking on the black “**back arrow**” icon.

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MAN

MY PROJECTS

DNR Result Parameters

DNR Parameters

Previous 1-1 of 1 Next Order By Parameter Code Search

Parameter Code	Parameter Type	Description
← 80027	SWIMS	INDEX OF BIOTIC INTEGRITY (IBI)

Add other search variables, such as the “**Fieldwork Start Date**” range. (Remember, trying to download over 20,000 records at once will crash the system! Keep your search reasonable.)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> Search Fieldwork Events

Search Type: Advanced Search

Fieldwork Start Date: From: 05/01/2005 Select Date To: 05/01/2007 Select Date

Fieldwork Event Status:

Station ID:

Primary Station Name:

Station Type:

WBIC:

Official Waterbody Name:

County:

Watershed:

GMU:

WMU:

Sample/Label ID:

Label Account #:

Field #:

Collector (last name):

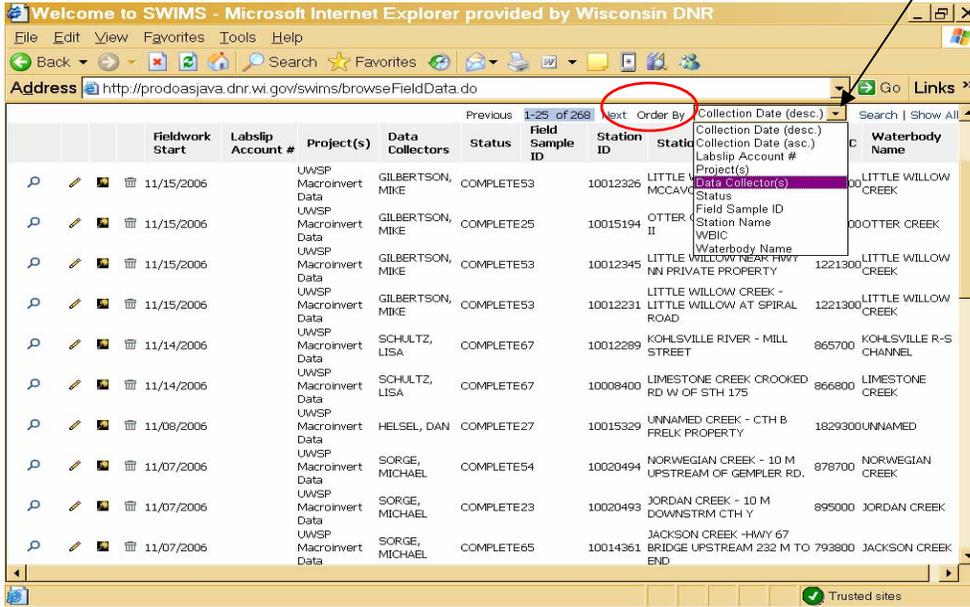
Project: Search Projects

DNR Parameter: 80027 Search for Parameter

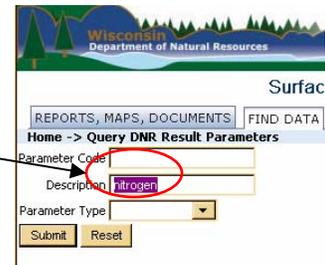
Source Media:

Submit (circled in red) | Reset

The above search resulted in a listing of 268 sample results collected between 5/01/2005 and 5/1/2007 for the parameter code 80027 (IBI). You can arrange the “**Order By**” box so that you can view the data in order of collection date, collector, project, and other variables.



Another way to search by parameter is to search by parameter name. There may be several parameters listed with similar names. To make sure you get the results you’re looking for, search by a partial parameter “**Description**” (e.g., “nitrogen”). SWIMS will retrieve a complete list of parameters that have “nitrogen” listed in their titles.



The above search resulted in a listing of 35 parameters with the word “nitrogen” in their description.

Parameter Code	Parameter Type	Description
151	DNR_STORET	NITROGEN NH3-N
600	DNR_STORET	NITROGEN TOTAL
601	DNR_STORET	NITROGEN TOTAL DISS
605	DNR_STORET	NITROGEN ORGANIC
607	DNR_STORET	NITROGEN ORGANIC DISS
608	DNR_STORET	NITROGEN NH3-N DISS
610	DNR_STORET	NITROGEN NH3-N TOTAL
611	DNR_STORET	NITROGEN NH3-N
613	DNR_STORET	NITROGEN NO2-N DISS
615	DNR_STORET	NITROGEN NO2-N TOTAL
618	DNR_STORET	NITROGEN NO3-N DISS
619	DNR_STORET	NITROGEN NH3-N UN-IONIZED % TOT T-PH
620	DNR_STORET	NITROGEN NO3-N TOTAL
621	DNR_STORET	NITROGEN NO3-N
623	DNR_STORET	NITROGEN KJELDAHL DISS
625	DNR_STORET	NITROGEN KJELDAHL TOTAL
627	DNR_STORET	NITROGEN KJELDAHL TOTAL
630	DNR_STORET	NITROGEN NO3+NO2
631	DNR_STORET	NITROGEN NO3+NO2 DISS (AS N)
633	DNR_STORET	NITROGEN NO2
634	DNR_STORET	NITROGEN KJELDAHL PERIPHTN
640	DNR_STORET	NITROGEN INORGANIC TOTAL
654	DNR_STORET	NITROGEN KJELDAHL TOTAL
61539	DNR_STORET	NITROGEN NO3
61571	DNR_STORET	NITROGEN TOTAL

Now you can choose which parameter you want to search. Click on the black “**back arrow**” icon, and then follow the rest of the procedure for searching by parameter.

Manage Data

Because SWIMS is designed around the concept of a project, to make specific stations or people show up in your “wizard” for submitting data or generating lab slips, you need to cross reference that information to the project.

The picture below shows what a “project” looks like from the reports and maps area. By clicking on the regional special projects of your choice, you can drill down to the detailed information for that area. Or, click on the “**View All Details**” link at the bottom right to view and edit the cross referenced information for the project, such as stations, people, etc.

For projects internal to the WDNR, the highest priorities for editing or managing data at the project level include:

- People/organizations
- Stations
- Methods
- Documents
- Lab Account Codes
- Forms

- **People or Organizations**

Adding people or organizations to the project enables those individuals to use the lab slip generator or submit data form and have their name show up in relation to the project. Follow these steps to add a person's name.

Step 1: Click on the “**add new**” icon:

People/Organizations Involved						
X	X	X	Name	Role	Start Date	End Date
			ROESLER, CRAIG P	COORDINATOR	04/19/2007	
			KLOSIEWSKI, JAMES M	COORDINATOR	09/20/2006	
			KREITLOW, JAMES D	COORDINATOR	05/15/2007	

Step 2: Search for the person using the “**Search People**” button.

Surface Water Inter

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA

SWIMS Home | Interactive Maps | Search Monitor

Home -> Enter New ProjectIpXref Information

Fields denoted with an asterisk (*) are REQUIRED.

Project SeqNo* 11933750

IP SeqNo* 0 **Search People**

Role*

Status*

Start Date* 05/15/2007

End Date

Comments

back

Step 3: Type in the last name and click on return to search for the person:

Surface Water (SWIMS)

REPORTS, MAPS, DOCUMENTS FIND DATA

PROJECTS

SWIMS Home | Interactive Maps

Home -> Query People

Search Type Search By Name

Last Name hel

First Name helmuth
helse
hiesel

Step 4: Find and select the name, and backfill into the project by clicking on the black “back arrow” icon:

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FOR PROJECTS

SWIMS Home | Interactive Maps | Search Monitoring E

Browse People

A - B - C - D - E - F - G - H - I - J - K - L - M - N - O - P - Q - R - S - DISPLAY ALL Previous
T - U - V - W - X - Y - Z

				Name	Collector Id	Salutation Line 2	Title	C
				HELMUTH, JEFFREY A	0		Hydrogeologist Program Coordinator	Wis
				HELMUTH, LISA D	0		Water Resources Management Specialist	Wis

Download

Step 5: Assign Role, Status and Date:

Surface Water

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA

SWIMS Home | Interactive Maps | Search Monitoring E

Home -> Enter New ProjectIpXref Information

Fields denoted with an asterisk (*) are REQUIRED.

Project SeqNo* 11933750

IP SeqNo* 10096338

Role* COORDINATOR

Status* ACTIVE

Start Date* 05/15/2007

End Date

Comments

[Back](#)

○ Stations

Step 1: Click on the “**add new**” icon and search for stations:

KRETLLOW, JAMES D COORDINATOR 05/15/2007

Stations			
X	X	X	
Station Id	Station Name	Water Body	WBIC

Methods			
X			
Method Code	Description	Category	

Field Work			

Step 2: Use the “**Search Stations**” button to find the station you need, or if you know the number, you can enter that number into the station ID box and click on return.

Wisconsin Department of Natural Resources

Surface Water Integri

REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA

SWIMS Home | Interactive Maps | Search Monitori

Home -> Enter New PlanStationXref Information

Fields denoted with an asterisk (*) are REQUIRED.

Plan SeqNo* 11933750

Station Id* Search Stations

Comments

Save and Return

REPORTS, MAPS, DOCUMENTS FIND DATA SUB

SWIMS Home | Interactive Maps | Search Back

Home -> Enter New PlanStationXref Information

Fields denoted with an asterisk (*) are REQUIRED.

Plan SeqNo* 11933750

Station Id* Search Stations

Comments

Save and Return

Back

The station is now cross referenced and will show up in the labslip generator or submit data wizard if used.

Stations			
X	X	X	
Station Id	Station Name	Water Body	WBIC
10012621	OWENS CREEK - AT CTH Y	OLDENS CREEK	1441800

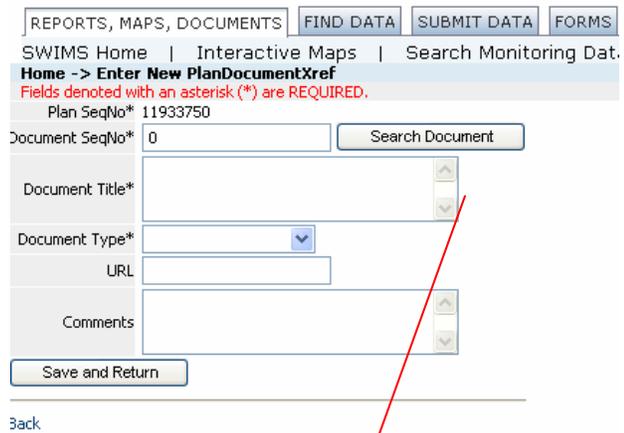
Methods			

- **Adding Documents**

You can add the special project monitoring request or other detailed description, like the final report, etc. for a project through the “documents” area.

Documents					
X	X	X	Type	Title	URL
					

Search for documents by clicking on the “**add new**” icon:



REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS

SWIMS Home | Interactive Maps | Search Monitoring Dat.

Home -> Enter New PlanDocumentXref

Fields denoted with an asterisk (*) are REQUIRED.

Plan SeqNo* 11933750

Document SeqNo* Search Document

Document Title*

Document Type*

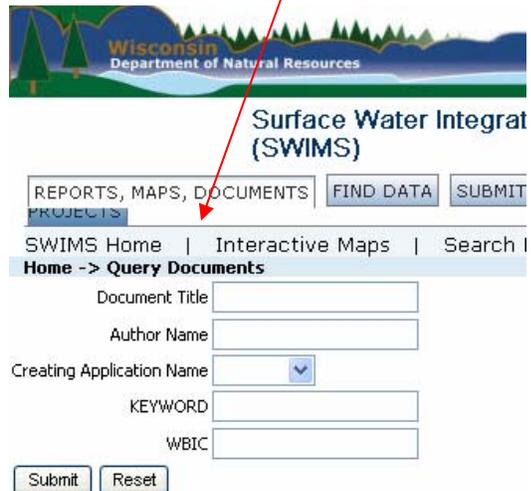
URL

Comments

Save and Return

Back

To search and select a document, you’ll need to search by Keywords, WBIC, Title or Author.



Wisconsin Department of Natural Resources

Surface Water Integrat (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT

PROJECTS

SWIMS Home | Interactive Maps | Search |

Home -> Query Documents

Document Title

Author Name

Creating Application Name

KEYWORD

WBIC

Submit Reset

You can search by Keyword:

SWIMS Home | Interactive Maps | S
Home -> Query Documents

Document Title

Author Name

Creating Application Name

KEYWORD

WBIC

Or by title (hint try waterbody name):

Surface Water Integr (SWIMS)

REPORTS, MAPS, DOCUMENTS

SWIMS Home | Interactive Maps | Search
Home -> Query Documents

Document Title

Author Name

Creating Application Name

KEYWORD

WBIC

The result for “baird” in the title includes:

Surface Water Integrated Monitoring System (SWIMS) Updates | Help | Log Off

REPORTS, MAPS, DOCUMENTS

SWIMS Home | Interactive Maps | Search Monitoring Data
Home -> Documents

Documents

First Previous 1-2 of 2 Next Last Order By Most Recent First Search | Show All

	Document Title	Author Name	Published Date	Description	Creating Application Name
	BAIRD CREEK 303D STATIONS, NUMBER FW EVENTS, FIRST LAST DATE OF DATA			Station ID Station Name, Fieldwork Event Count Earliest Date Latest Date	SWIMS
	BAIRD CREEK 2006 IMPAIRED WATERS DOCUMENT	BETZ, CAROLYN	02/01/2006	2006 Impaired Waters Documentation	SWIMS

This is how the report shows up on the project:

Documents

X	X	X	Type	Title	URL
			OTHER	BAIRD CREEK 303D STATIONS, NUMBER FW EVENTS, FIRST LAST DATE OF DATA	/swims/public/reporting.do?action=init&planSeqNo=16084030&report=36&title=Station List - BAIRD Creek Number Fieldwork Events by Stations

- **Lab Accounts, Forms**

The same cross referencing process should be done for “**Lab Account Codes**”:

Lab Accounts						
X	X	X	Account No	Description	Start Date	End Date
			WT082	SPECIAL PROJECTS	2006-07-01	2007-06-30

And forms:

Forms					
X	X	X	Form Name	Form No	Order No
			Inorganic Test Request-Field Results	4800-015	1
			Continuous Data Upload		

Cross referencing these two forms will make them show up in the “**Submit Data**” wizard – “**Enter Monitoring Data**” screens - associated with the specific project.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS
FIND DATA
SUBMIT DATA
FORMS
STATIONS
MANAGE DATA
MY

Home -> Enter Monitoring Data
Fields denoted with an asterisk (*) are REQUIRED.

Project * (or)

Data Collectors * (or)

Station * (or)

Start Date *

Time

Form *

Optional Fields

End Date

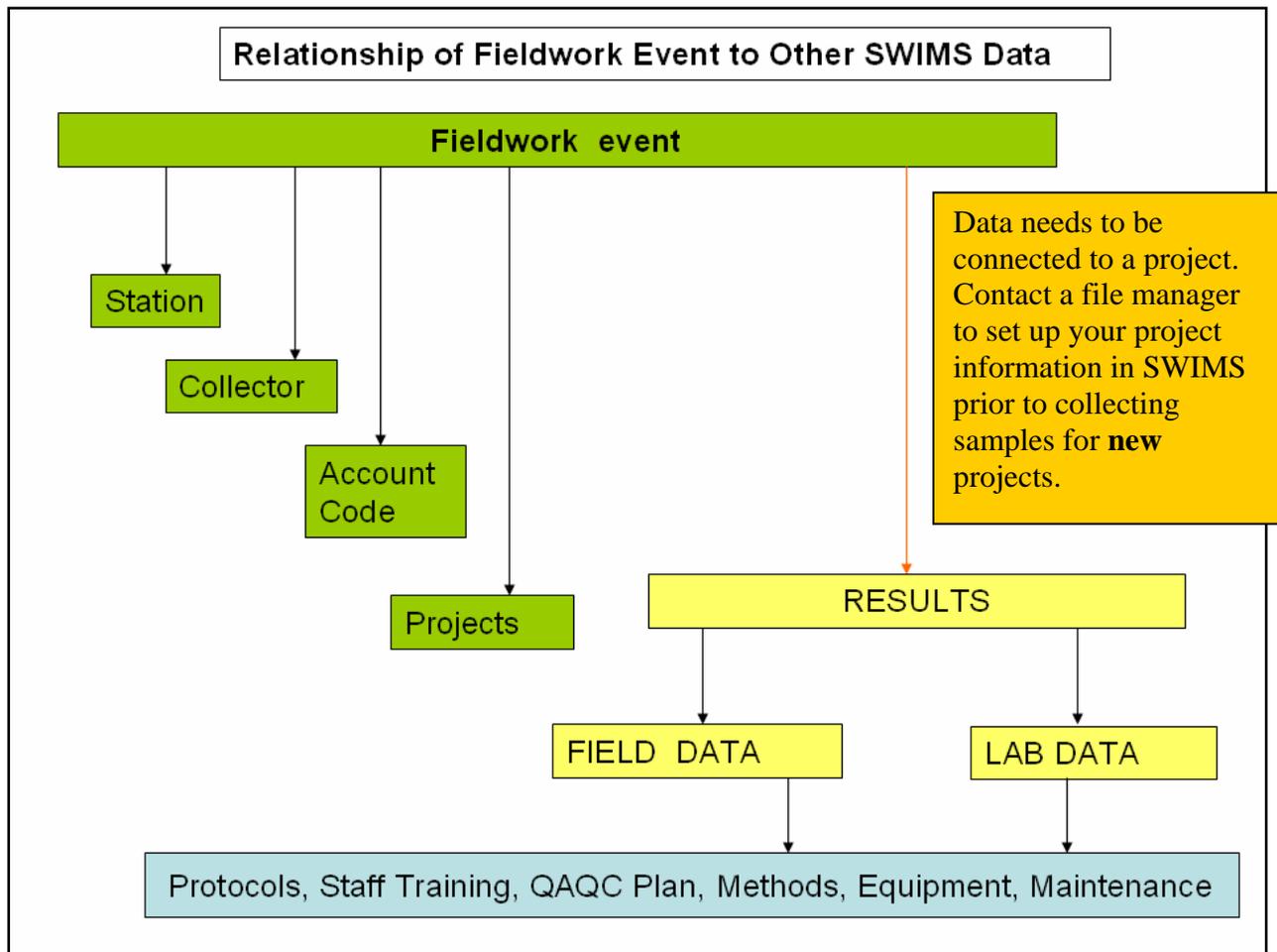
Time

Comments

Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc...

Appendix A: SWIMS Database Relationships

Best Management Practices Data Management Documentation	
What	Projects, Results
Where	Stations
When	Fieldwork Event
How	Methods/Equipment/Documents
Why	Project Objective, Outcome
Who	People, Collectors
Training/ Certification	Training & Communication (monitoring & data entry, data mgmt tools)



Appendix B: Embedded Locator Tool (eLT) Troubleshooting Tips

Map Server is Down

If you click "show map" and **a box shows appears up with toolbars, but with an error message inside the box**, the map server may be down. Try again later

eLT Isn't Installed on Your Computer

If you click "show map" and **just a tiny box shows up without toolbars**, you may need to have the current version of the eLT installed on your computer.

- Check to see that the ELT.ocx file was loaded to your c:\DNRAPPS\eLT directory (c:\DNRAPPS\eLT\ELT.ocx).
- Check the version of the file by right clicking on the ELT.ocx file, select Properties, then select the Version tab. The ELT.ocx version should be 1.20.0.0.

If you don't find the ELT.ocx file on your computer, contact your ITC or someone with Administrator privileges to install the latest version. You can find the list of RIMS and ITCs on the following web page
<http://intranet.dnr.state.wi.us/itworks/itcrims/> (see IT Staff Lists on the left side)

Here are the directions to install eLT (Data Administrators Only)

- Go to the following directory
`\\central\swis\elt\eLT Install\InstallShield\latest version\Disk1\Prod`
- Run the **NRSetup.bat** file in this directory by double clicking it. An automated install program will run through the installation.

Reset Active X Controls and Privacy Settings

If you click "show map" and **a box shows up with the toolbars, but no map and no error message inside, with a message "active x control blocked . . ." at the top of your browser**, you may need to reset your Security, Active X Controls, and/or Privacy Settings. Follow these steps:

- Start Internet Explorer
- In the **Tools** menu, select **Internet Options**
- Select the **Security** tab
- Click on **Trusted Sites** as the web content zone
- Click "**Sites**"
- Paste the name of the URL (i.e. prodoasjava.dnr.wi.gov) in the box.
- Uncheck "require server verification..." and click on **OK**. Once you've added the URL, Re-check the "require server verification..." checkbox.
- Now try the map again (try clicking on the refresh button)

If it still doesn't work, adjust the ActiveX and Privacy Settings:

Click on the **Custom Level** button

- For all settings dealing with the **ActiveX controls** and **plugins**, change the settings to **Enabled**
- Click **OK**
- Click on the **Privacy** tab
- Move the bar to **Low**
- Click **OK** and **OK** to exit the settings dialogs

Request Help

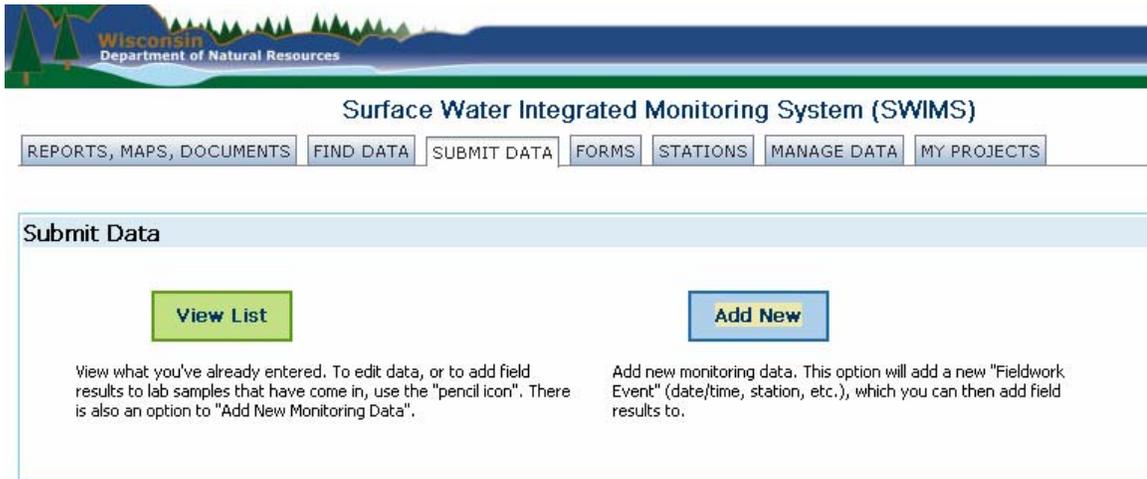
If you still get error messages or can't get maps to appear, send us the screenprint (hold the **Ctrl** button down and press the **Print Screen Button**, then paste this into your e-mail message) of the problem or error message.

Appendix C: Continuous Meter Data Upload

Upload the Data

Uploading continuous meter data is possible through using the SWIMS forms area located in the “**SUBMIT DATA**” tab screens. The system is customized to allow you to use the specific format in which your data is configured when it is downloaded from the unit. In some cases you will have to use the boxcar pro or similar software to export the data in text delimited or comma separated value (CSV) format.

Step 1: Click on the “Add New” button.



Step 2: Use the data entry wizard just like you would for the lab slip area, identifying the project, collectors, station, and date of fieldwork. Select the “Continuous Data Upload” form from the “Form*” drop-down list:

The screenshot shows the 'Enter Monitoring Data' form in the SWIMS system. The form is titled 'Home -> Enter Monitoring Data' and includes a note: 'Fields denoted with an asterisk (*) are REQUIRED.' The form fields are as follows:

- Project *: CLMN AT CHEROKEE LAKE (dropdown menu) (or) Search All Projects
- Data Collectors *: JULIA RILEY (dropdown menu) (or) Search All People
- Station *: 10001238, CHEROKEE LAKE - CHEROKEE LAKE (dropdown menu) (or) Search All Stations (Show Map)
- Start Date *: 05/10/2007 (text input) (Select Date)
- Time: (dropdown menu) (dropdown menu)
- Form *: Continuous Data Upload (dropdown menu)
- Next: (button)
- Optional Fields:
 - End Date: (text input) (Select Date)
 - Time: (dropdown menu) (dropdown menu)
 - Comments: (text area)

At the bottom of the form, there is a note: 'Fill in the weather here, lake or streamside observations, wildlife spotted, names of additional helpers etc..'

Red arrows point to the 'Form *' dropdown menu and the 'Next' button.

Step 3: Enter any instantaneous data collected during unit deployment. New parameters will be added to this area to accommodate a wider range of instantaneous measures. These values are not required to upload your data.

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> Fieldwork Event and Result Form
 Fields denoted with an asterisk (*) are REQUIRED.
 Fieldwork event data can be corrected later after submitting parameter results below.

You Are Entering Data For:	Project:	CLMN AT CHEROKEE LAKE
	Start Date Time:	05/10/2007
	Station:	10001238 - CHEROKEE LAKE - CHEROKEE LAKE

Continuous Data Upload
 Initiate a fieldwork event for continuous data, enter instantaneous measures and field observations.

Parameter	Result	Units	Method
TEMPERATURE FIELD	25	DEGREES C	
CLOUD COVER	90	%	
Stream Characteristics: Ave. Width, Depth, Mex	ave width is 25 ft, depth is 4 ft.		

Save and Enter Another Date | Save and Return to List | Save and Upload Continuous Data

Click Save and edit to initiate continuous data file upload.

Step 4: Upload the file, document method and other information. The data must be formatted correctly for a successful upload to SWIMS. The following pages show the correct format for your data.

Surface Water Integrated Monitoring Sy

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MAN

Continuous Monitoring File Upload

File to upload: Browse...

Type of Continuous Monitoring File: AQUA Meter

Collection Method to assign: Search for Method

Total Drift for Dissolved Oxygen: mg/L

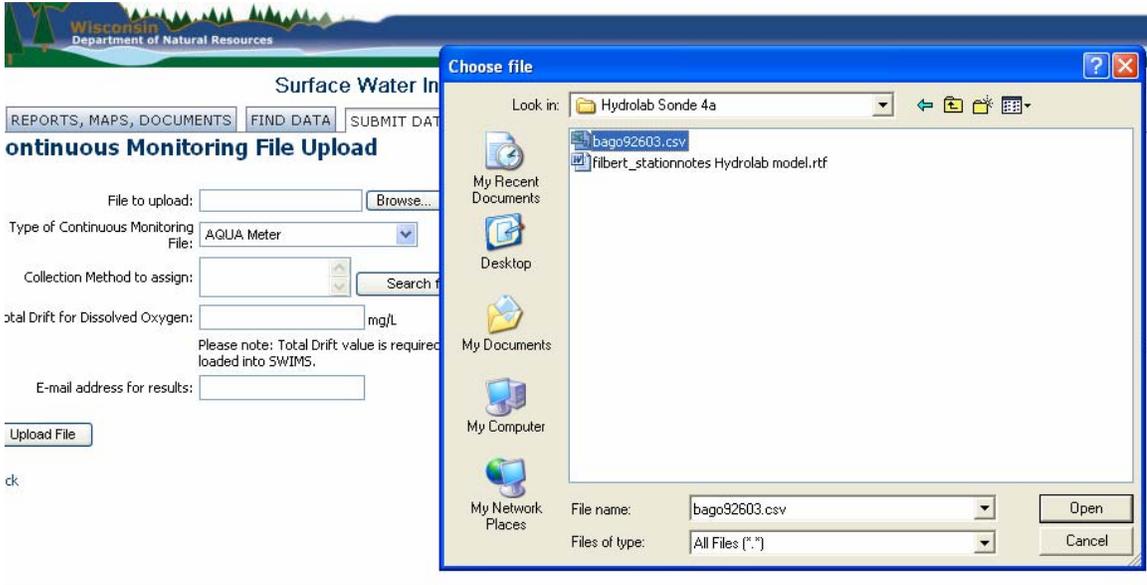
Please note: Total Drift value is required for upload of dissolved oxygen data loaded into SWIMS.

E-mail address for results:

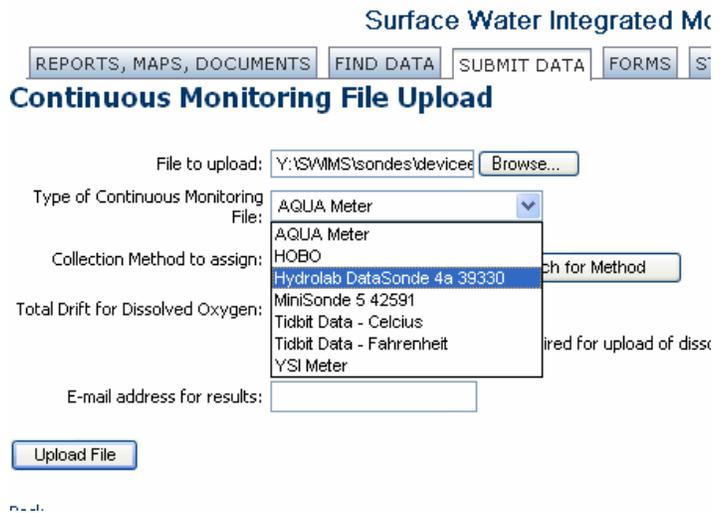
Upload File

A note on drift: Total Drift value is required for upload of dissolved oxygen data. Value may be positive or negative. The 2006-07 Guidance on Sondes Data Collection indicates that datasets with Total drift values > 1 mg/L or < -1 mg/L should not be loaded into SWIMS. However, the system will allow you to enter the total drift value of zero for situations where you have not collected total drift.

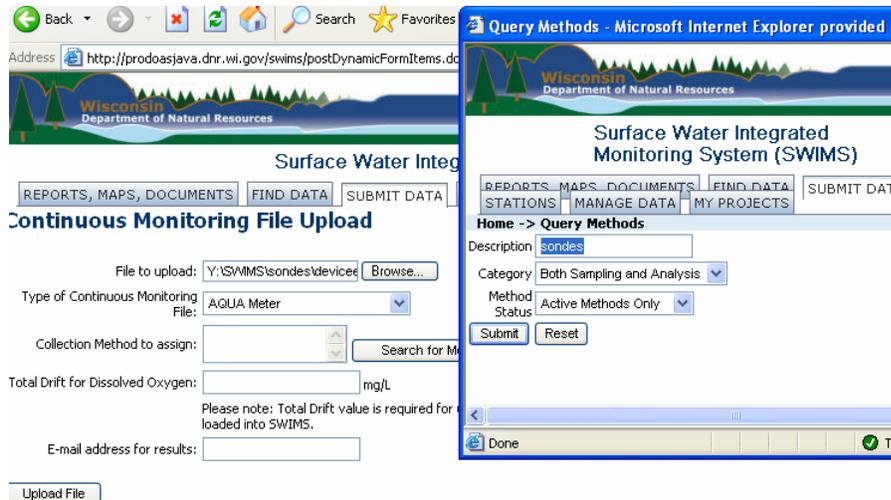
Step 5a: Navigate to file (needs to be in correct format)

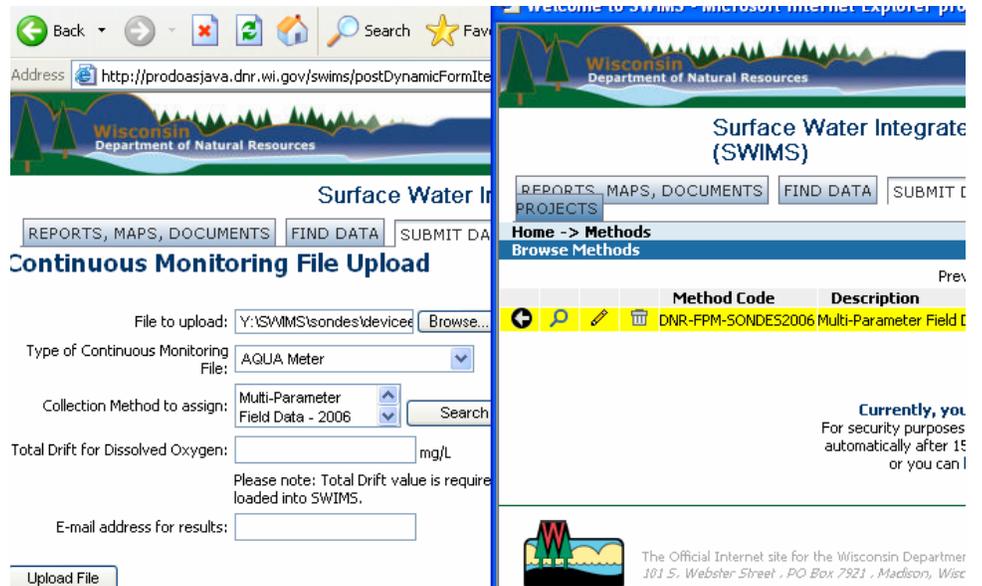


Step 5b: Select the meter name for the unit you've used – this will tell the system which format to expect.

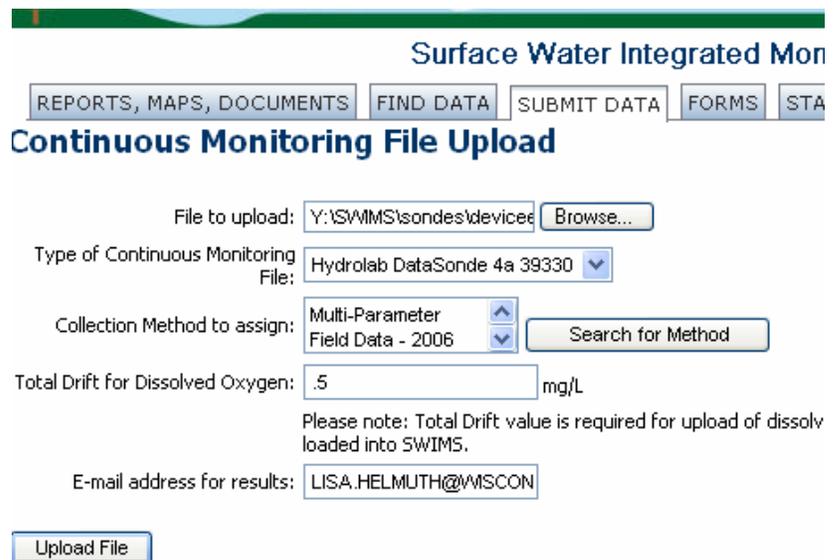


Step 5c: Select the method used- "Sondes" Guidance should be selected.

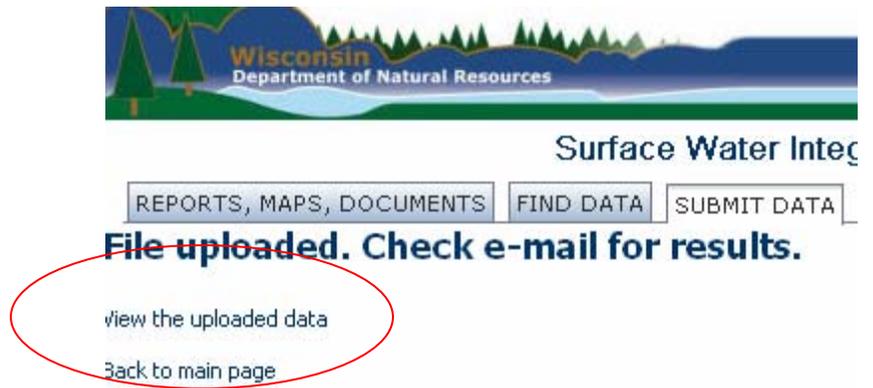




Your completed page should look something like this:



Step 6: Once you upload your data, the page will ask you to view the uploaded data:



Step 7: View your data to validate the results – make sure the tool worked correctly for your dataset by checking for minimums, maximums, and ‘does this make sense?’.

Fieldwork Event Summary:

- Fieldwork Start: 05/10/2007
- Fieldwork End: 09/28/2003 11:59 PM
- Project(s): CLMN AT CHEROKEE LAKE
- Data Collectors: JULIA RILEY
- Fieldwork Event Status: COMPLETE
- Field Sample ID: [blank]
- Station Org: 21WIS
- Station ID: 10001238
- Station Name: CHEROKEE LAKE - CHEROKEE LAKE
- Station Type: LAKE
- WBIC: 806500
- Waterbody Name: CHEROKEE LAKE
- Field Description: [blank]
- Report To: [blank]
- Report to EPA? Y
- Comments: [Dissolved Oxygen raw data corrected using total drift of .5 mg/L (05/10/2007)]
- Labslip Account #: [blank]

Field Results Table:

L	R	DNR Parameter	Type	Description	Result	Units	Prese
		32	DNR_STORET	CLOUD COVER	90	%	
		200	SWIMS	TOTAL DRIFT - DISSOLVED OXYGEN CONTINUOUS METER	.5	MG/L	
		400	SWIMS	Stream Characteristics: Ave. Width, Depth, Meanders (Description)	ave width is 25 ft, depth is 4 ft.		

DNR Parameters with more than 10 records are being hidden.

Summary Results Table:

L	R	DNR Parameter	Type	Description	Result	Units	Prese
		80001	SWIMS	Calculated Mean Daily Temperature	14.99	C	
		80001	SWIMS	Calculated Mean Daily Temperature	14.64	C	
		80001	SWIMS	Calculated Mean Daily Temperature	11.89	C	
		80002	SWIMS	Calculated Maximum Daily Temperature	15.19	C	
		80002	SWIMS	Calculated Maximum Daily Temperature	14.75	C	
		80002	SWIMS	Calculated Maximum Daily Temperature	14.34	C	
		80003	SWIMS	Calculated Minimum Daily Temperature	14.71	C	
		80003	SWIMS	Calculated Minimum Daily Temperature	14.36	C	
		80003	SWIMS	Calculated Minimum Daily Temperature	0	C	
		80004	SWIMS	Calculated Mean of Maximum Daily Temperatures (for fieldwork period)	14.76	C	
		80006	SWIMS	Maximum Daily Mean (highest value of 80004). Calculated max daily mean temp	14.99	C	

Reviewing Continuous Data in SWIMS

Continuous data in swims looks like other fieldwork except that the detailed raw data that was uploaded is “hidden” upon opening the fieldwork event. These data are available for viewing or downloading.

Surface Water Integrated Monitoring System (SWIMS) Updates | Help

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> View Fieldwork Event

Fieldwork Start 05/10/2007
 Fieldwork End 09/28/2003 11:59 PM
 Project(s) CLMN AT CHEROKEE LAKE
 Data Collectors JULIA RILEY
 Fieldwork Event Status COMPLETE
 Field Sample ID
 Station Org. 21WIS
 Station ID 10001238
 Station Name CHEROKEE LAKE - CHEROKEE LAKE
 Station Type LAKE
 WBIC 806500
 Waterbody Name CHEROKEE LAKE
 Field Description
 Report To
 Report to EPA? Y
 Comments [Dissolved Oxygen raw data corrected using total drift of .5 mg/L (05/10/2007)]
 Labslip Account #

ack to Browse | Vertical Measurement(s) | Fieldwork Location | Results | projects | Labslips | Enable Edit | download

		Field Results					Previous	1-3 of 3	Next
L	R	DNR Parameter	Type	Description	Result	Units	Prese		
		32	DNR_STORET	CLOUD COVER	90	%			
		200	SWIMS	TOTAL DRIFT - DISSOLVED OXYGEN CONTINUOUS METER	.5	MG/L			
		400	SWIMS	Stream Characteristics: Ave. Width, Depth, Meanders (Description)	ave width is 25 ft, depth is 4 ft.				

DNR Parameters with more than 10 records are being hidden. Show

		Summary Results					Previous	1-20 of 39	Next
L	R	DNR Parameter	Type	Description	Result	Units	Prese		
		80001	SWIMS	Calculated Mean Daily Temperature	14.99	C			
		80001	SWIMS	Calculated Mean Daily Temperature	14.64	C			
		80001	SWIMS	Calculated Mean Daily Temperature	11.89	C			
		80002	SWIMS	Calculated Maximum Daily Temperature	15.19	C			
		80002	SWIMS	Calculated Maximum Daily Temperature	14.75	C			
		80002	SWIMS	Calculated Maximum Daily Temperature	14.34	C			
		80003	SWIMS	Calculated Minimum Daily Temperature	14.71	C			
		80003	SWIMS	Calculated Minimum Daily Temperature	14.36	C			
		80003	SWIMS	Calculated Minimum Daily Temperature	0	C			
		80004	SWIMS	Calculated Mean of Maximum Daily Temperatures (for fieldwork period)	14.76	C			
		80006	SWIMS	Maximum Daily Mean (highest value of 80004). Calculated max daily mean temp	14.99	C			

Reviewing Summary or Computed Values:

Surface Water Integrated Monitoring System (SWIMS) Updates | Help

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJECTS

Home -> View Labslip / Sample Group

Collection Method
 Sample/Labslip ID
 Lab ID
 Collection Date/Time (Start) 09/26/2003 12:00 AM
 Collection Date/Time (End) 09/26/2003 11:59 PM
 Collector
 Account #
 ID No 10001238
 ID Point No
 Second ID No
 Field No
 Project #
 Sample Description Calculated values from original raw data
 Location Description
 Received
 Reported
 Report To
 Address
 City/State
 Source Media WATER
 Status COMPLETE
 QC Flag N
 Report to EPA? N
 Enforcement Sample?

		Sample Results					Previous	1-11 of 11	Next
		DNR Parameter	Type	Description	Result	Units	Prese		
		80001	SWIMS	Calculated Mean Daily Temperature	14.99	C			
		80003	SWIMS	Calculated Minimum Daily Temperature	14.71	C			
		80002	SWIMS	Calculated Maximum Daily Temperature	15.19	C			
		80007	SWIMS	Calculated Mean Daily Conductivity	.36	UMHOS/CM			
		80009	SWIMS	Calculated Minimum Daily Conductivity	.35	UMHOS/CM			
		80008	SWIMS	Calculated Maximum Daily Conductivity	.36	UMHOS/CM			
		80015	SWIMS	Calculated Maximum Daily Turbidity, Field Nephelometric NTU (82078)	8.87	SU			
		80010	SWIMS	Calculated Mean Daily Dissolved Oxygen Percent of Saturation	97.68	%			
		80020	SWIMS	Calculated Mean Daily Dissolved Oxygen	9.44	MG/L			
		80021	SWIMS	Calculated Minimum Daily Dissolved Oxygen	9.13	MG/L			
		80022	SWIMS	Calculated Maximum Daily Dissolved Oxygen	9.71	MG/L			

Sample Vertical Measurement(s)				
Start	End	Units	Material	Type

The SWIMS continuous upload tool computes the following summary values if the data is included in the upload:

Parameter Code	Parameter Type	Description
80001	SWIMS	Calculated Mean Daily Temperature
80002	SWIMS	Calculated Maximum Daily Temperature
80003	SWIMS	Calculated Minimum Daily Temperature
80004	SWIMS	Calculated Mean of Maximum Daily Temperatures (for fieldwork period)
80005	SWIMS	Calculated Mean Monthly Temperature (for complete months only)
80006	SWIMS	Maximum Daily Mean (highest value of 80004). Calculated max daily mean temp over fieldwork period.
80007	SWIMS	Calculated Mean Daily Conductivity
80008	SWIMS	Calculated Maximum Daily Conductivity
80009	SWIMS	Calculated Minimum Daily Conductivity
80010	SWIMS	Calculated Mean Daily Dissolved Oxygen Percent of Saturation
80011	SWIMS	Calculated Maximum Daily Dissolved Oxygen Percent of Saturation
80012	SWIMS	Calculated Minimum Daily Dissolved Oxygen Percent of Saturation
80013	SWIMS	Calculated Mean Daily Turbidity, Field Nephelometric NTU (82078)
80014	SWIMS	Calculated Minimum Daily Turbidity, Field Nephelometric NTU (82078)
80015	SWIMS	Calculated Maximum Daily Turbidity, Field Nephelometric NTU (82078)
80016	SWIMS	Calculated Mean Daily pH (400)
80017	SWIMS	Calculated Minimum Daily pH (400)
80018	SWIMS	Calculated Maximum Daily pH (400)
80020	SWIMS	Calculated Mean Daily Dissolved Oxygen
80021	SWIMS	Calculated Minimum Daily Dissolved Oxygen
80022	SWIMS	Calculated Maximum Daily Dissolved Oxygen
80023	SWIMS	Calculated Minimum Daily Mean Dissolved Oxygen. Calculated min daily mean d.o. (80020) over the fieldwork
80024	SWIMS	Calculated Percent of Sample Period below 6 mg/l
80025	SWIMS	Calculated Percent of Sample Period below 5 mg/l
80026	SWIMS	Calculated Percent of Sample Period below 3 mg/l

Each Fieldwork Event will display all parameter values for raw data under the “L” Lab slip or Sample Group magnifying glass:

Updates | Help

Surface Water Integrated Monitoring System (SWIMS)									
REPORTS, MAPS, DOCUMENTS FIND DATA SUBMIT DATA FORMS STATIONS MANAGE DATA MY PROJECTS									
Home -> View Fieldwork Event									
Fieldwork Start: 05/10/2007		Field Results							
Fieldwork End: 09/28/2003 11:59 PM		Hide DNR Parameters with more than 10 records							
Project(s): CLMN AT CHEROKEE LAKE				Previous		1-20 of 568		Next	
Data Collectors: JULIA RILEY		L	R	DNR Parameter	Type	Description	Result	Units	Present/
Fieldwork Event Status: COMPLETE				10	DNR_STORET	TEMPERATURE FIELD	25	DEGREES C	
Field Sample ID				10	DNR_STORET	TEMPERATURE FIELD	15.06	C	
Station Org.: 21WIS				10	DNR_STORET	TEMPERATURE FIELD	15.13	C	
Station ID: 10001238				10	DNR_STORET	TEMPERATURE FIELD	15.13	C	
Station Name: CHEROKEE LAKE - CHEROKEE LAKE				10	DNR_STORET	TEMPERATURE FIELD	15.16	C	
Station Type: LAKE				10	DNR_STORET	TEMPERATURE FIELD	15.16	C	
WBIC: 806500				10	DNR_STORET	TEMPERATURE FIELD	15.18	C	
Waterbody Name: CHEROKEE LAKE				10	DNR_STORET	TEMPERATURE FIELD	15.16	C	
Field Description				10	DNR_STORET	TEMPERATURE FIELD	15.1	C	
Report To				10	DNR_STORET	TEMPERATURE FIELD	15.04	C	
Report to EPA? Y				10	DNR_STORET	TEMPERATURE FIELD	14.74	C	
Comments: [Dissolved Oxygen raw data corrected using total drift of .5 mg/L (05/10/2007)]				10	DNR_STORET	TEMPERATURE FIELD	14.76	C	
Labslip Account #				10	DNR_STORET	TEMPERATURE FIELD	14.79	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.8	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.86	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.91	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.93	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.96	C	
				10	DNR_STORET	TEMPERATURE FIELD	15	C	
				10	DNR_STORET	TEMPERATURE FIELD	14.65	C	

Back to Browse | Vertical Measurement(s) | Fieldwork Location | Results | Projects | Labslips | Enable Edit | Download

To download the Data, “disable edit” and the “Download” link will show:

Wisconsin Department of Natural Resources

Surface Water Integrated Monitoring System (SWIMS)

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA | FORMS | STATIONS | MANAGE DATA | MY PROJ

Home -> **View Fieldwork Event**

Fieldwork Start	05/10/2007
Fieldwork End	09/28/2003 11:59 PM
Project(s)	CLMN AT CHEROKEE LAKE
Data Collectors	JULIA RILEY
Fieldwork Event Status	COMPLETE
Field Sample ID	
Station Org.	21WIS
Station ID	10001238
Station Name	CHEROKEE LAKE - CHEROKEE LAKE
Station Type	LAKE
WBIC	806500
Waterbody Name	CHEROKEE LAKE
Field Description	
Report To	
Report to EPA?	Y
Comments	[Dissolved Oxygen raw data corrected using total drift of .5 mg/L (05/10/2007)]
Labslip Account #	

Field Results				
L	R	DNR Parameter	Type	Descr
		32	DNR_STORET	CLOUD C
		200	SWIMS	TOTAL D OXYGEN
		400	SWIMS	Stream C Width, D (Descript

DNR Parameters with more than 10 records are beir

Summary Results				
L	R	DNR Parameter	Type	Descriptor
		80001	SWIMS	Calculated Mea
		80001	SWIMS	Calculated Mea
		80001	SWIMS	Calculated Mea
		80002	SWIMS	Calculated Max
		80002	SWIMS	Calculated Max
		80002	SWIMS	Calculated Max

Back to Browse | Vertical Measurement(s) | Fieldwork Location | Results | Projects | Labslips | ~~Enable Edit~~ | **Download**

Download the Data

Select the fieldwork event information you wish to download.

Surface Water Inte

REPORTS, MAPS, DOCUMENTS | FIND DATA | SUBMIT DATA

Download SWIMS Data

Fieldwork Events

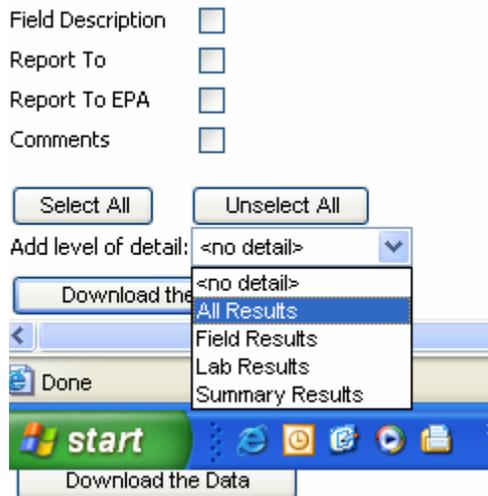
Database Key	<input type="checkbox"/>
Fieldwork Start	<input checked="" type="checkbox"/>
Fieldwork End	<input checked="" type="checkbox"/>
Project(s)	<input type="checkbox"/>
Labslip Account #	<input type="checkbox"/>
Group	<input checked="" type="checkbox"/>
Status	<input type="checkbox"/>
Field Sample ID	<input type="checkbox"/>
Fieldwork Depth	<input type="checkbox"/>
Station Org.	<input type="checkbox"/>
Station ID	<input checked="" type="checkbox"/>
Station Name	<input checked="" type="checkbox"/>
Station Type	<input type="checkbox"/>
WBIC	<input type="checkbox"/>
Waterbody Name	<input type="checkbox"/>
Field Description	<input type="checkbox"/>
Report To	<input type="checkbox"/>
Report To EPA	<input type="checkbox"/>
Comments	<input type="checkbox"/>

Select All | Unselect All

Add level of detail: ~~no details~~

Download the Data

Use the “Add level of detail” drop-down arrow list to select the type of results and details you want to download.



Download SWIMS Data			
Fieldwork Events	Sample Results		
Database Key	<input type="checkbox"/>	DNR Parameter	<input checked="" type="checkbox"/>
Fieldwork Start	<input checked="" type="checkbox"/>	Parameter Type	<input checked="" type="checkbox"/>
Fieldwork End	<input checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>
Project(s)	<input type="checkbox"/>	Result	<input checked="" type="checkbox"/>
Labslip Account #	<input type="checkbox"/>	Units	<input checked="" type="checkbox"/>
Group	<input checked="" type="checkbox"/>	Present/Absent	<input checked="" type="checkbox"/>
Status	<input type="checkbox"/>	Analysis Method	<input type="checkbox"/>
Field Sample ID	<input type="checkbox"/>	Start Date/Time	<input checked="" type="checkbox"/>
Fieldwork Depth	<input type="checkbox"/>	Analysis Date/Time	<input checked="" type="checkbox"/>
Station Org.	<input type="checkbox"/>	Result Depth	<input type="checkbox"/>
Station ID	<input checked="" type="checkbox"/>	Header/Labslip Depth	<input type="checkbox"/>
Station Name	<input checked="" type="checkbox"/>	Lab ID	<input type="checkbox"/>
Station Type	<input type="checkbox"/>	Sample/Labslip ID	<input type="checkbox"/>
WBIC	<input type="checkbox"/>	Lab Method	<input type="checkbox"/>
Waterbody Name	<input type="checkbox"/>	Lab Comments	<input type="checkbox"/>
Field Description	<input type="checkbox"/>	LOD	<input type="checkbox"/>
Report To	<input type="checkbox"/>	Lower Bound	<input type="checkbox"/>
Report To EPA	<input type="checkbox"/>	LOQ	<input type="checkbox"/>
Comments	<input type="checkbox"/>	Upper Bound	<input type="checkbox"/>
		ID No	<input type="checkbox"/>
		ID Point No	<input type="checkbox"/>
		Second ID No	<input type="checkbox"/>

Select All Unselect All
 Add level of detail: All Results

Click on the “Download the Data” button.

WBIC	<input type="checkbox"/>	Lab Method	<input type="checkbox"/>
Waterbody Name	<input type="checkbox"/>	Lab Comments	<input type="checkbox"/>
Field Description	<input type="checkbox"/>	LOD	<input type="checkbox"/>
Report To	<input type="checkbox"/>	Lower Bound	<input type="checkbox"/>
Report To EPA	<input type="checkbox"/>	LOQ	<input type="checkbox"/>
Comments	<input type="checkbox"/>	Upper Bound	<input type="checkbox"/>
		ID No	<input type="checkbox"/>
		ID Point No	<input type="checkbox"/>
		Second ID No	<input type="checkbox"/>
		Field No	<input type="checkbox"/>
		Project #	<input type="checkbox"/>
		Sample Description	<input type="checkbox"/>
		Location Description	<input type="checkbox"/>
		Received	<input type="checkbox"/>
		Reported	<input type="checkbox"/>

Select All Unselect All
 Add level of detail: All Results

Download the Data

Select All Unselect All
 Add level of detail: <no detail>

Click on the “Open” button to access the excel worksheet with the selected downloaded information:

WBIC

Waterbody Name

Field Description

Report To

Report To EPA

Comments

Select All Unselect All

Add level of detail: All Results

Download the Data

Lab Method

Lab Comments

LOD

Lower Bound

LOQ

Upper Bound

ID No

ID Point No

Second ID No

Field No

Project #

Sample Description

Location Description

Received

Reported

Select All

Add level of detail:

You can use Excel “TOOLS” to enable “autofilter” for further sorting of data/information.

	A	B	C	D	E	F	G	H	I	J	K	
1	Fieldwork	Fieldwork	Group	Station ID	Station Na	DNR Para	Parameter	Description	Result	Units	Present/A	Start Da
2	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	TEMPERA	25	DEGREES C		0
3	#####	#####	JULIA RILE	10001238	CHEROKE	32	DNR_STO	CLOUD CO	90	%		0
16	#####	#####	JULIA RILE	10001238	CHEROKE	300	DNR_STO	DISSOLVE	9.70936	MS/L		09/26/2003 11:00
17	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	TEMPERA	15.13	C		09/26/2003 11:30
18	#####	#####	JULIA RILE	10001238	CHEROKE	400	DNR_STO	PH FIELD	8.95			09/26/2003 11:30
19	#####	#####	JULIA RILE	10001238	CHEROKE	94	DNR_STO	CONDUCT	0.354	MS/CM		09/26/2003 11:30

Back Search Favorites

Address: http://prodoasjava.dnr.wi.gov/swims/download.do

Arial 10 B I U

05/10/2007 12:00:00 AM

	A	B	C	D	E	F	G	H	I	J
1	Fieldwo	Fieldwo	Group	Station	Station	DNR Pa	Parame	Description	Result	Units
2	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	Sort Ascending	25	DEGREES C
3	#####	#####	JULIA RILE	10001238	CHEROKE	32	DNR_STO	Sort Descending	90	%
4	#####	#####	JULIA RILE	10001238	CHEROKE	400	SWIMS	(All)	ave width is 25 ft, depth is	
5	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	(Top 10...)	15.06	C
6	#####	#####	JULIA RILE	10001238	CHEROKE	400	DNR_STO	(Custom...)	8.98	
7	#####	#####	JULIA RILE	10001238	CHEROKE	94	DNR_STO	Calculated Maximum Daily Conductivity	0.352	MS/CM
8	#####	#####	JULIA RILE	10001238	CHEROKE	301	DNR_STO	Calculated Maximum Daily Dissolved Oxygen	99.4	%
9	#####	#####	JULIA RILE	10001238	CHEROKE	82078	DNR_STO	Calculated Maximum Daily Temperature	11	NTU
10	#####	#####	JULIA RILE	10001238	CHEROKE	300	DNR_STO	Calculated Maximum Daily Turbidity, Field N	9.66468	MG/L
11	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	Calculated Mean Daily Conductivity	15.12	C
12	#####	#####	JULIA RILE	10001238	CHEROKE	300	DNR_STO	Calculated Mean Daily Dissolved Oxygen	8.96	
13	#####	#####	JULIA RILE	10001238	CHEROKE	94	DNR_STO	Calculated Mean Daily Dissolved Oxygen Pe	0.352	MS/CM
14	#####	#####	JULIA RILE	10001238	CHEROKE	301	DNR_STO	Calculated Mean Daily Temperature	100	%
15	#####	#####	JULIA RILE	10001238	CHEROKE	82078	DNR_STO	Calculated Mean of Maximum Daily Temperz	12	NTU
16	#####	#####	JULIA RILE	10001238	CHEROKE	300	DNR_STO	Calculated Minimum Daily Conductivity	9.70936	MG/L
17	#####	#####	JULIA RILE	10001238	CHEROKE	10	DNR_STO	Calculated Minimum Daily Dissolved Oxygen	15.13	C
18	#####	#####	JULIA RILE	10001238	CHEROKE	400	DNR_STO	Calculated Minimum Daily Mean Dissolved O	8.96	
								TEMPERATURE FIELD		
								OH FIELD		

Arial 10 B I U

H608 Calculated Percent of Sample Period below 3 mg/l

	A	B	C	D	E	F	G	H	I	J	
1	Fieldwork	Fieldwork	Group	Station	Station	DNR	Parame	Parame	Description	Result	Units
	Start	End			Name	r	r Type				
308	#####	#####	JULIA RILE	10001238	CHEROKE	80026	SWIMS		Calculated Percent of Sample	3.19	Percent
309									Period below 3 mg/l		
310											

Formats for Data Upload

Use this chart to find the correct format and columns and column order for uploading your data			
	Device Name	Format	Notes
Temp Only			
	Onset Thermister	TXT comma delimited	The txt file is the exported Excel text version of the dtf file using the ONSET export application.
	Tidbit - C	TXT tab delimited Celsius	
	Tidbit - F	TXT tab delimited Fahrenheit	
Multi-Parameter			
	Aqua	txt tab delimited	
	HydroSonde A	csv file (comma delimited)	
	MiniHydro Sonde	Txt tab delimited	
	YSI	text comma delimited file	

Onset Thermister:

```

ONSET_THERMISTER_309311.txt - Notepad
File Edit Format View Help
Serial Number:      309311      --      Series: Temperature (*C)

Date, Time, Temperature (*C)
05/22/06, 00:00:00.0, 15.86
05/22/06, 01:00:00.0, 15.69
05/22/06, 02:00:00.0, 15.54
05/22/06, 03:00:00.0, 15.38
05/22/06, 04:00:00.0, 15.22
05/22/06, 05:00:00.0, 14.91
05/22/06, 06:00:00.0, 14.59
05/22/06, 07:00:00.0, 14.43
05/22/06, 08:00:00.0, 14.28
05/22/06, 09:00:00.0, 14.43
05/22/06, 10:00:00.0, 14.59
05/22/06, 11:00:00.0, 14.91
05/22/06, 12:00:00.0, 15.54
05/22/06, 13:00:00.0, 15.86
05/22/06, 14:00:00.0, 16.33
05/22/06, 15:00:00.0, 16.65
05/22/06, 16:00:00.0, 16.81
05/22/06, 17:00:00.0, 16.81
05/22/06, 18:00:00.0, 16.81
05/22/06, 19:00:00.0, 16.65
05/22/06, 20:00:00.0, 16.49
05/22/06, 21:00:00.0, 16.33
05/22/06, 22:00:00.0, 16.01
05/22/06, 23:00:00.0, 15.86
05/23/06, 00:00:00.0, 15.86
05/23/06, 01:00:00.0, 15.69
05/23/06, 02:00:00.0, 15.69

```

Tidbit Celcius:

```

Deer Cr. @STH92 2nd xing Dwnstrm Mt. Hor.txt - Notepad
File Edit Format View Help
Date/Time      Temperature (*C)      Temperature (*F)
10/06/2005 11:00:00      11.04      51.89      Serial Number:      848174      Series: Temperature (*C)
Station_ID = 10012173
10/06/2005 12:00:00      11.35      52.44      Serial Number:      848174      Series: Temperature (*F)
Monit_Station_Seq_No = 104302
10/06/2005 13:00:00      11.51      52.72
10/06/2005 14:00:00      11.66      53
10/06/2005 15:00:00      11.82      53.28
10/06/2005 16:00:00      11.66      53
10/06/2005 17:00:00      11.51      52.72
10/06/2005 18:00:00      11.19      52.16
10/06/2005 19:00:00      10.89      51.61
10/06/2005 20:00:00      10.42      50.77
10/06/2005 21:00:00      10.27      50.49
10/06/2005 22:00:00      10.11      50.21
10/06/2005 23:00:00      9.8      49.65
10/07/2005 00:00:00      9.64      49.37
10/07/2005 01:00:00      9.49      49.09
10/07/2005 02:00:00      9.49      49.09
10/07/2005 03:00:00      9.33      48.81
10/07/2005 04:00:00      9.18      48.53
10/07/2005 05:00:00      9.02      48.25
10/07/2005 06:00:00      9.02      48.25
10/07/2005 07:00:00      8.87      47.97
10/07/2005 08:00:00      8.87      47.97
10/07/2005 09:00:00      8.87      47.97
10/07/2005 10:00:00      9.02      48.25
10/07/2005 11:00:00      9.18      48.53
10/07/2005 12:00:00      9.8      49.65
10/07/2005 13:00:00      10.27      50.49

Series Temperature (*C)
Logger Info      Information specific to the logger
Model      Optic StowAway-TEMP(C)ONSET -4C TO 38C
Serial Number      848174
Memory Size (Bytes)      32768
Extra Info      Information used by tech support
Model Number      5
Version Number      3
Series Info      Information about the data in the series
Points Used      6701
First Point      10/06/05 11:00:00.0
Last Point      07/12/06 15:00:00.0
Duration      279 Days 04:00:00.0
Stats      Calculated from the series
wrap Count      0
Max Value      31.32
Min Value      -0.08
Avg Value      7.68
Launch Parameters      Mirrors the launch dialog settings
Description      Deer Cr. @STH92 2nd xing Dwnstrm Mt. Hor
wrap      On
Interval      01:00:00.0
Measurement Unit      Temperature (*C)
Triggered Start off

```

Tidbit Farenheit:

Deer Cr.@STH 92 Thompson Farm.txt - Notepad

File Edit Format View Help

Date/Time	Temperature (*C)	Temperature (*F)	Serial Number:	Series: Temperature (*C)
10/06/2005 11:00:00	10.31	50.56	848180	(*C)
Station_ID = 10010799				
10/06/2005 12:00:00	10.62	51.12	848180	(*F)
Monit_Station_Seq_No = 102928				
10/06/2005 13:00:00	10.77	51.4		
10/06/2005 14:00:00	10.93	51.68	Series Temperature (*C)	
10/06/2005 15:00:00	11.08	51.96	Logger Info	Information specific to the logger
10/06/2005 16:00:00	10.93	51.68	Model	Optic StowAway-TEMP(C)ONSET -4C TO 38C
10/06/2005 17:00:00	10.77	51.4	Serial Number	848180
10/06/2005 18:00:00	10.46	50.84	Memory Size (Bytes)	32768
10/06/2005 19:00:00	10.31	50.56	Extra Info	Information used by tech support
10/06/2005 20:00:00	9.99	50	Model Number	5
10/06/2005 21:00:00	9.84	49.72	Version Number	3
10/06/2005 22:00:00	9.68	49.44	Series Info	Information about the data in the series
10/06/2005 23:00:00	9.53	49.16	Points Used	6701
10/07/2005 00:00:00	9.37	48.88	First Point	10/06/05 11:00:00.0
10/07/2005 01:00:00	9.37	48.88	Last Point	07/12/06 15:00:00.0
10/07/2005 02:00:00	9.22	48.6	Duration	279 Days 04:00:00.0
10/07/2005 03:00:00	9.22	48.6	Stats	Calculated from the series
10/07/2005 04:00:00	9.22	48.6	Wrap Count	0
10/07/2005 05:00:00	9.06	48.32	Max Value	29.61
10/07/2005 06:00:00	9.06	48.32	Min Value	1.41
10/07/2005 07:00:00	9.06	48.32	Avg Value	8.21
10/07/2005 08:00:00	9.06	48.32	Launch Parameters	Mirrors the launch dialog settings
10/07/2005 09:00:00	9.22	48.6	Description	Deer Cr.@STH 92 Thompson Farm
10/07/2005 10:00:00	9.37	48.88	Wrap	on
10/07/2005 11:00:00	9.68	49.44	Interval	01:00:00.0
10/07/2005 12:00:00	10.31	50.56	Measurement Unit	Temperature (*C)
10/07/2005 13:00:00	10.46	50.84	Triggered start off	

Aqua Unit (Temp, DO)

AQUA_prn8-21.txt - Notepad

File Edit Format View Help

Popple River at CTH N
"8/17 - 8/21,2006"

AQUA 2002 Data Report

Start time [Day]	:	08/17/2006	13:00	-229.5416667
Down load time [Day]	:	08/21/2006	12:15	-233.5109259
Sample interval [Minute(s)]	:	0:30		
Battery status at down load	:	OK		
Samples collected	:	191		

Notes:

Ken Schreiber
WCR EAU CLAIRE
Unit #5

Time	DOY	Temp	DO
08/17/2006 13:00		229.5416667	21.39 6.09
08/17/2006 13:30		229.5625	21.45 6.36
08/17/2006 14:00		229.5833333	21.5 6.62
08/17/2006 14:30		229.6041667	21.54 6.85
08/17/2006 15:00		229.625	21.55 7.1
08/17/2006 15:30		229.6458333	21.58 7.32
08/17/2006 16:00		229.6666667	21.59 7.51
08/17/2006 16:30		229.6875	21.61 7.68
08/17/2006 17:00		229.7083333	21.6 7.75

Hydrosonde (CSV):

\\central\watershed\SWIMS\sondes\deviceexamples\HydroLab Sonde														
DataSonde 4a 39330														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	DataSonde 4a 39330													
2	Log File Name : bago92603													
3	Setup Date (MMDDYY) : 092603													
4	Setup Time (HHMMSS) : 080509													
5	Starting Date (MMDDYY) : 092603													
6	Starting Time (HHMMSS) : 103000													
7	Stopping Date (MMDDYY) : 100503													
8	Stopping Time (HHMMSS) : 235959													
9	Interval (HHMMSS) : 003000													
10	Sensor warmup (HHMMSS) : 000200													
11	Circltr warmup (HHMMSS) : 000200													
12														
13														
14	Date	Time	Temp	pH		SpCond		DO%		DO		Turb		
15	MMDDYY	HHMMSS	°C	Units		mS/cm		Sat		mg/l		NTU		
16														
17	09/26/2003	10:30:00	15.06		8.98	0.352		99.4		9.67		11		
18	09/26/2003	11:00:00	15.12		8.96	0.353		100		9.72		12		
19	09/26/2003	11:30:00	15.13		8.95	0.354		99.3		9.65		14		
20	09/26/2003	12:00:00	15.12		8.92	0.355		98.2		9.54		17		
21	09/26/2003	12:30:00	15.13		8.91	0.355		97.9		9.51		21		
22	09/26/2003	13:00:00	15.15		8.89	0.355		98.9		9.6		18		
23	09/26/2003	13:30:00	15.16		8.89	0.356		98.7		9.58		20		
24	09/26/2003	14:00:00	15.18		8.89	0.356		99		9.6		19		
25	09/26/2003	14:30:00	15.18		8.87	0.356		98.5		9.56		24		

MiniSonde (HydroSonde)

	A	B	C	D	E	F	G	H	I
1	MiniSonde 5 42591								
2	Log File Name : Little Willow @ Spiral Rd Fall 06								
3	Setup Date (MM/DD/YYYY) : 09/29/2006								
4	Setup Time (HH:MM:SS) : 11:31:11								
5	Starting Date (MM/DD/YYYY) : 09/29/2006								
6	Starting Time (HH:MM:SS) : 12:00:00								
7	Stopping Date (MM/DD/YYYY) : 10/06/2006								
8	Stopping Time (HH:MM:SS) : 12:00:00								
9	Interval (HH:MM:SS) : 01:00:00								
10	Sensor warmup (HH:MM:SS) : 00:00:30								
11	Circltr warmup (HH:MM:SS) : 00:00:30								
12									
13	Date	Time	Temp	pH	SpCond	NH4Tot	LDO%	LDO	IBatt
14	MM/DD/YYYY	HH:MM:SS	°C	Units	µS/cm	mg/l-N	Sat	mg/l	%Left
15									
16	09/29/2006	12:00:00	9.41	8.25	529	0.05	105.6	11.71	57
17	09/29/2006	13:00:00	9.54	8.34	527	0.05	108.1	11.95	58
18	09/29/2006	14:00:00	10.37	8.39	526	0.05	112.6	12.2	58
19	09/29/2006	15:00:00	11.27	8.41	526	0.06	114.3	12.13	58
20	09/29/2006	16:00:00	11.46	8.42	526	0.07	111.3	11.76	60
21	09/29/2006	17:00:00	11.22	8.4	526	0.06	104.9	11.15	58
22	09/29/2006	18:00:00	11.09	8.39	526	0.06	99.6	10.61	60
23	09/29/2006	19:00:00	10.88	8.36	526	0.06	94.3	10.1	60

YSI Unit:

```
File Edit Format View Help
"-----" "-----" "-----" "-----" "-----" "-----" "-----" "-----"
"   Date", "   Time", "  Temp", "SpCond", "Dosat", "   DO", "DOchrg", "Battery"
" m/d/y", "hh:mm:ss", "  C", " us/cm", "  %", " mg/L", "   volts"
"-----" "-----" "-----" "-----" "-----" "-----" "-----" "-----"
06/14/2006,15:00:47,20.33,284,93.7,8.46,44.5,11.8
06/14/2006,15:30:47,19.71,284,97.4,8.90,44.5,11.8
06/14/2006,16:00:47,19.55,284,98.0,8.98,44.5,11.8
06/14/2006,16:30:47,19.65,283,102.2,9.36,45.7,11.8
06/14/2006,17:00:47,19.91,284,104.9,9.55,45.7,11.8
06/14/2006,17:30:47,20.10,284,102.3,9.28,45.7,11.8
06/14/2006,18:00:47,20.14,284,111.1,10.07,46.9,11.8
06/14/2006,18:30:47,20.37,285,111.4,10.04,46.9,11.8
06/14/2006,19:00:47,20.44,285,108.9,9.81,46.9,11.8
06/14/2006,19:30:47,20.77,286,106.9,9.56,46.9,11.9
06/14/2006,20:00:47,20.69,284,103.9,9.31,45.7,11.8
06/14/2006,20:30:47,20.77,285,102.4,9.16,45.7,11.8
06/14/2006,21:00:47,20.50,286,100.4,9.03,45.7,11.8
06/14/2006,21:30:47,20.57,285,102.2,9.19,45.7,11.8
06/14/2006,22:00:47,20.63,289,97.0,8.71,45.7,11.8
06/14/2006,22:30:47,20.93,287,95.6,8.53,44.5,11.8
06/14/2006,23:00:47,21.12,289,93.9,8.35,44.5,11.8
06/14/2006,23:30:47,21.11,290,93.1,8.27,44.5,11.8
06/15/2006,00:00:47,21.06,291,90.6,8.06,44.5,11.8
06/15/2006,00:30:47,20.92,291,89.2,7.96,44.5,11.8
06/15/2006,01:00:47,20.79,291,86.5,7.73,44.5,11.8
06/15/2006,01:30:47,20.72,292,83.5,7.48,43.9,11.8
06/15/2006,02:00:47,20.59,292,81.6,7.32,43.9,11.8
06/15/2006,02:30:47,20.48,293,79.2,7.13,43.9,11.8
06/15/2006,03:00:47,20.36,293,76.8,6.93,43.9,11.8
06/15/2006.03:30:47.20.22.293.75.0.6.79.42.8.11.8
```