

S BIO2 Phys-Chem Module User Guide

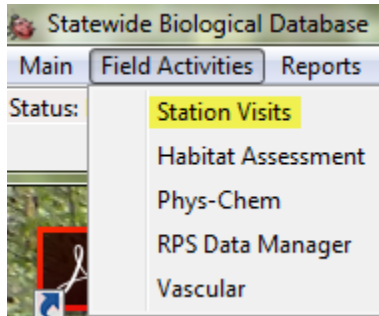
Overview:

The Physical/Chemical Characterization (Phys-Chem) module is intended for the entry and review of observations made in the field. It is a combination of DEP Form FD 9000-3 and FD 9000-31.

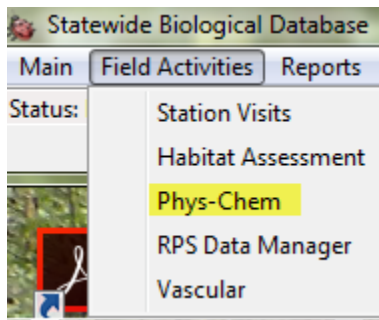
1. Set up the Visit using the STATION VISIT module if you haven't already
2. Click the PHYS-CHEM item in the FIELD ACTIVITIES menu
3. Choose a Visit ID
4. Enter the data
 - a. The entry choices will differ based on the waterbody type assigned to the station
 - b. If data has been entered in another module (ex. Secchi, Total Depth), it will be populated in this module
 - c. "The antecedent hydrologic conditions..." checkbox, if checked, will stamp the lead sampler's name into the database – not necessarily the person that is entering the data
 - d. "Delete" will delete everything except the values that can be entered via other modules
5. There is no review or authorization step for this module.

Details:

1. Set up the Visit using the STATION VISIT module if you haven't already



2. Click the PHYS-CHEM item in the FIELD ACTIVITIES menu



3. Choose a Visit ID (can start with a STORET Number)

A screenshot of the 'Phys-Chem' data entry window. The window has a title bar with standard Windows controls. The main area is divided into several sections:

- Search Existing Stations by:** Two radio buttons are present: 'Visit ID (SBIO Sample ID)' and 'STORET Station ID' (which is selected).
- Search:** A text input field containing the value '200'.
- STORET Station:** A list box showing a series of station numbers: 20010002, 20010003, 20010010, 20010011 (highlighted in blue), 20010012, 20010013, 20010014, and 20010015.
- Visit ID:** A text input field containing the value '16151'.
- Existing Visit Information:** A section with four labeled text input fields: 'Station:', 'Sample Date:', 'Waterbody:', and 'Lead Sampler:'.

4. Enter the data
 - a. The entry choices will differ based on the waterbody type assigned to the station
 - i. Default:

Phys-Chem

Search Existing Stations by:
☒ Visit ID (SBIO Sample ID)
☐ STORET Station ID

STORET Station:

Visit ID:

Existing Visit Information:
 Station:
 Sample Date:
 Waterbody:
 Lead Sampler:

Search:

Meter Readings:

	Depth (M)	Temp (C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:							
Middle:							
Bottom:							

Secchi (m):
 Secchi Estimated ☐
 Secchi VOB ☐
 Total Depth (m):
 Total Depth Estimated ☐

Observations:

Water:
 Clarity:
 Color:
 Odors:
 Oils:
 Artificially Impounded:

Sediment:
 Odors:
 Sediment Type
☐ Organic fibrous (peaty, CPOM)
☐ Organic Smooth (muck)
☐ Sand/Silt
☐ Sandy
☐ Vegetated

Save Delete Exit User Guide

ii. Lakes:

Phys-Chem

Search Existing Stations by:
☒ Visit ID (SBIO Sample ID)
☐ STORET Station ID

STORET Station:

Visit ID:

Search:

Existing Visit Information:
Station:
Sample Date:
Waterbody:
Lead Sampler:

Meter Readings:

	Depth (M)	Temp (C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:							
Middle:							
Bottom:							

Secchi (m):
Secchi Estimated ☐
Secchi VOB ☐
Total Depth (m):
Total Depth Estimated ☐

Observations:

Water:
Clarity:
Color:
Odors:
Oils:

Artificially Impounded:

Water Level:

Sediment:
Odors:
Sediment Type:
☐ Organic fibrous (peaty, CPOM)
☐ Organic Smooth (muck)
☐ Sand/Silt
☐ Sandy
☐ Vegetated

Active Vegetation Mgmt:

Abundance:
Periphyton:
Nuisance Plants:
Submersed Plants:
Exotic Apple Snails:

Habitat Components for FD 9000-31
SW Inputs:
Alterations:
Buffer:

☒ Save

iii. Streams

Phys-Chem

Search Existing Stations by:
☒ Visit ID (SBIO Sample ID)
☐ STORET Station ID

STORET Station:

Visit ID:
12435

Existing Visit Information:
Station: 32010021
Sample Date: 8/13/1997
Waterbody: ALAQUA CREEK
Lead Sampler: Ray, Donald H.

Search:
12435

Meter Readings:

	Depth (M)	Temp (C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:							
Middle:							
Bottom:							

Secchi (m):

Secchi Estimated ☐

Secchi VOB ☐

Total Depth (m):

Total Depth Estimated ☐

Observations:

Water:
Clarity:
Color:
Odors:
Oils:

Sediment:
Odors:
Sediment Type
☐ Organic fibrous (peaty,CPOM)
☐ Organic Smooth (muck)
☐ Sand/Silt
☐ Sandy
☐ Vegetated

Abundance:
Periphyton
Fish
Aquatic Plants
Iron/Sulfur Bacteria

Artificially Impounded:

Artificially Channelized:

Water Level:

Canopy Cover %:

Hydrologic Modification Score:

Substrate:
Smothering
Sand
Silt
Algae

Type

% Coverage		# Times Inverts sampled
	Woody Debris (snags)	
	Undercut Banks/Roots	
	Leaf Packs or Mat	
	Aquatic Vegetation	
	Rock or Shell Rubble	
	Sand	
	Mud/Muck/Silt	

Typical Width(m) Depth(m)/Velocity(m/sec) Transect:

Width (m):	Left Velocity (m/s):	Center Velocity (m/s):	Right Velocity (m/s):

Left Depth (m):	Center Depth (m):	Right Depth (m):

High Water Mark (m):
 + =
(above present water level) (present depth) (above bed)

Buffer Width (m):
Left Bank:
Right Bank:

☐ The antecedent hydrologic conditions have been met to my best knowledge.

Save
Delete
Exit
User Guide

- b. If data has been entered in another module (ex. Secchi, Total Depth, Lake HA), it will be populated in this module

Phys-Chem

Search Existing Stations by:
☒ Visit ID (SBIO Sample ID)
☐ STORET Station ID

STORET Station:

Visit ID:

Search:

Existing Visit Information:
 Station:
 Sample Date:
 Waterbody:
 Lead Sampler:

Meter Readings:

	Depth (M)	Temp (C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:							
Middle:							
Bottom:	0.3						

Secchi (m):
 Secchi Estimated ☐
 Secchi VOB ☒
 Total Depth (m):
 Total Depth Estimated ☐

☒ The antecedent hydrologic conditions have been met to my best knowledge.

☒ Save

- c. “The antecedent hydrologic conditions...” checkbox, if checked, will stamp the lead sampler’s name into the database – not necessarily the person that is entering the data

☒ The antecedent hydrologic conditions have been met to my best knowledge.

☒ Save

- d. “Delete” will delete everything except the values that can be entered via other modules

5. There is no review or authorization step for this module.