

Chesapeake Data Explorer Cheat Sheet

Registration

Please fill out the entire registration form to the best of your ability, with the following information.

Email	<input type="text" value="please provide a valid email address"/>
Password	<input type="password" value="please create a password and remember this password"/>
Confirm password	<input type="password" value="*You will need the password every time you enter data*"/>
First Name	<input type="text" value="use your preferred name (ie. Liz instead of Elizabeth)"/>
Last Name	<input type="text" value="use your preferred last name"/>
Cell Phone	<input type="text" value="please provide at least one valid phone number"/>
Home Phone	<input type="text"/>
Emergency Phone	<input type="text"/>
Address First	<input type="text" value="Please provide an address where supplies can be shipped"/>
Address Second	<input type="text"/>
City	<input type="text"/>
State	<input type="text"/>
Zip	<input type="text"/>
Select Group	<input type="text" value="Please select the appropriate group you are monitoring with."/>
Profile Image	<input type="button" value="Choose File"/> No file chosen
<input type="button" value="Register"/>	

**Select Group: select the group you are associated with. If you are not affiliated with a specific group, choose the Alliance as your group. If you do not see your group on the list, please contact Sophie Stern at sstern@allianceforthebay.org. The following is a list of approved Alliance monitoring groups:

- Riverine Master Naturalists
- Green Aquia
- Reedy Creek Coalition
- Chesapeake Bay Governor’s School
- Friends of the Rappahannock
- Caledon State Park
- Maymont Foundation
- James City County
- Historic River Master Naturalists
- James River Master Naturalists
- Northern Neck Master Naturalists
- Alliance for the Chesapeake Bay

Click “Register” when completed, an Alliance staff member will confirm your registration and then you will be able to log in.

Entering Data

To enter data, log on to the database and click “Upload Data” under the Quick Links section.

CMC Chesapeake Monitoring Cooperative

Admin Data Profile Manage

Log off

CMC Data Management Tool

Good Morning, Liz

You uploaded 84 samples that are not yet verified.

Quick Links:

- Upload Data
- Submit Station
- Contact Your CMC Administrator

Alliance for the Chesapeake Bay's Activity this month

- 3 NEW USERS
- 15 NEW SAMPLES

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Section 1: General Info

Group
Alliance for the Chesapeake Bay
Use the dropdown list to choose the group for which you will be uploading data.

Sampling Site
35
Use the dropdown list to choose the sampling station for which you will be uploading data.

Sample Date
Enter Sample Date
Click on text box above and use the calendar that opens to choose the sample date

Sample Time
Enter Sample Time
Click on the text box above to select the sample time

- **Group:** This will be selected for you based on the group you choose at registration. You will not be able to select another group when you upload data, so it is important you select the right group.
- **Sampling Site:** You will need to select your sampling site from the drop down list provided. The stations are associated with the group, if your station is not listed, please make sure you are associated with the correct group or contact Amy Hagerdon. **Please use caution as some sampling sites may have similar names, so double check you have selected the appropriate site.**
- **Sample Date:** Enter your sampling date from your datasheet (mm/dd/yyyy).
- **Sample Time:** Enter your sampling time from your datasheet (HH:MM AM/PM)

Section 2: Station Conditions

This section represents the “Observations/Weather” section of your field datasheet. From the drop down box, select the ACB option.

Conditions During Sampling
First choose the set of conditions that you would like to include

Choose Conditions Set

ACB
ALLARM
ALL

Please fill out the fields shown below with the corresponding data from your datasheet unless otherwise noted to take additional observations. **Leave any unused fields blank.**

Conditions During Sampling

First choose the set of conditions that you would like to include on the form. Next, use the added fields to describe conditions at the sampling location at the time sampling occurred.

Water Surfaces

Stream Flow

Weather Conditions Today

Tidal Stage

Other Conditions

Water Color

Water Color Description

(ex. "Clear, Brown, Green, etc")

Rainfall

(Total in mm the week prior to sampling; ex. 2.3)

Rainfall Within 48 Hours

(Total in mm 48 hours prior to sampling; ex. 1.2)

Other Comments

- *Water Surfaces*: choose the option from the drop down menu that matches your datasheet water surface.
- *Stream Flow*: choose the option from the drop down menu that matches your datasheet stream flow rate.
- *Weather Conditions Today*: choose the option from the drop down menu that matches your Weather Type.
- *Tidal Stage*: choose the option from the drop down menu that matches your datasheet tidal stage (*If applicable*).
- *Other Conditions*: choose the option from the drop down menu that matches your datasheet other conditions.
- *Water Color*: choose the option from the drop down menu that matches your datasheet water color (normal/abnormal).
- *Water Color Description*: write in the water color description from your datasheet.
- *Rainfall*: write in the weekly accumulation of rainfall (mm) from your datasheet.
- *Rainfall within 48 Hours*: write in the sum of rainfall 1 day and 2 days before testing (mm) from your datasheet.
- *Other Comments*: write in any other general station observations from the additional comments section on your field datasheet.

Section 3: Calibration

This section records the calibration/standardization procedures conducted for the RiverTrends dissolved oxygen test and pH meter.

Dissolved Oxygen Sodium Thiosulfate Check (mg/L)

 Add Duplicate Sample

Enter Dissolved Oxygen Sodium Thiosulfate Check (mg/L)

- Sodium Thiosulfate Check (mg/L): write in the value of your sodium thiosulfate check. If a second check was conducted click “Add Duplicate Sample” and write in the value for the second sodium thiosulfate check. ***if your sodium thiosulfate check is not between 9.4 and 10 contact your coordinator***

pH Calibration Temperature (deg C)

Enter pH Calibration Temperature (deg C)

- pH Calibration Temperature (deg C): enter the temperature value recorded on your datasheet as the “Pre-Sample meter calibration” -> Temperature.

pH Calibration Value (4) ()

Enter pH Calibration Value (4) ()

pH Calibration Value (7) ()

Enter pH Calibration Value (7) ()

pH Calibration Value (10) ()

Enter pH Calibration Value (10) ()

- pH Calibration Values: enter the value recorded on your datasheet as the “Pre-Sample calibration” for pH 7 and **either** 4 or 10. *Most monitors do either pH 4 **or** pH 10 calibration, leave the other one blank*

pH Post-Sample Check (4) ()

pH Post-Sample Check (7) ()


pH Post-Sample Check (10) ()

- pH Post-Sample Check Values: enter the value recorded on your datasheet as the “Post-sample meter check” for pH 7 and **either** 4 or 10. ***If you values differ by more than +/- 0.20 from the standard contact your coordinator***




Section 4: Data

Enter data for your field data collected during that sampling event. Leave fields blank if data was not collected due to instrument failure or poor sampling conditions. You also may not be entering data for each field shown on the database, leave any parameters that you don't sample blank.

Surface Sample

Use the fields in this section to input data that is taken at the surface (default is 0.3m) 

Air temperature (deg C) Air

- Air Temperature (deg C): enter the Air Temperature data to the nearest half of a degree


Water temperature (deg C) Water





- Water Temperature (deg C): Enter Water Temperature data to the nearest half of a degree

Secchi Disk (M) Water


- Secchi Disk (M): enter the value to the nearest tenth of a meter

Turbidity Tube (cm)

Note: If reading is greater than the value entered choose the > symbol from the qualifier code field.

Enter Turbidity Tube (cm)

Water temperature (deg C)

Enter Water temperature (deg C)

Volunteer Hours

>

If needed, select qualifier code

<

>

E

- Turbidity Tube (cm): enter the value to the nearest tenth of a cm. ****if you check the box that the value is greater than recorded on your datasheet, click the orange circle with the * symbol and select the > symbol from the drop down menu.****

Dissolved oxygen (mg/L) Water

Enter Dissolved oxygen (mg/L)

- Dissolved Oxygen (mg/L): enter the value recorded for dissolved oxygen Test 1 to the nearest tenth mg/L. Click the blue circle with a + sign button to enter the value recorded for Test 2.

Bacteria (E. Coli) (CFU/100mL) Water

Enter Bacteria (E. Coli) (CFU/100mL)

- Bacteria (CFU/100mL): enter the value recorded for your coliscan Rep1 (field C1 on your datasheet). Click the blue circle with a + sign button to enter the value recorded for Rep2 (field C2 of your datasheet).

Bacteria Incubation Time (h) Water

Enter Bacteria Incubation Time (h)

- Bacteria Incubation Time (hours): enter your coliscan incubation time in hours to the nearest hour.

Bacteria Incubation Temperature (deg C) Water

+ ! *

Enter Bacteria Incubation Temperature (deg C)

- Bacteria Incubation Temperature (deg C): enter your coliscan incubation temperature in degrees C to the nearest half of a degree.

pH (SU) Water

+ ! *

Enter pH (SU)

- pH (SU): enter the pH value (Std. Units) to the nearest hundredth

Total Depth (m) Water

+ ! *

Enter Total Depth (m)

- Total Depth (m): enter the total depth (if applicable to your site) in meters to the nearest tenth

Volunteer Hours

+

- Volunteer Hours: Click the blue circle, select your name from the drop down menu and enter hours spent monitoring. If you have additional monitors on your team click the blue circle again, select their names and record the hours spent monitoring. **You will only be able to select monitors that have an account with the system and are associated with your group.**

Comments

Enter Comments

Save

- Use the Comments field at the end to note additional monitor hours if you cannot add them to the volunteer hours section or any quality control issues that may have occurred during sampling, pH calibrations or sodium thiosulfate check issues.

Your data will be saved in the system and waiting for someone at the Alliance to QA/QC the data before it is verified and published. The data will be verified on a quarterly basis by the Alliance or when the Alliance receives your datasheets. Once published you will be able to view the data by clicking on the CMC logo in the upper left hand corner of the page.

Viewing and Downloading Data

You can download all of the data for any station within your monitoring program under “Edit and Review Data”.

Chesapeake D

Good Afternoon, ACB

Quick Links:

- Upload Data
- Submit Station
- Contact CMC Service Provider

Alliance for the Chesapeake Bay's Activity this month

0 NEW USERS

219 NEW SAMPLES

Select a station to download data and then click the “Download Data” button on the right side of the table.

Hi ACB, welcome to the Data Edit & Review page!

Here, you can review data that you uploaded for Alliance for the Chesapeake Bay. The table below displays sampling events for the selected sampling location. Click the check-mark (✓) next to the sampling event you would like to review and the data will appear below the graph in a format similar to the data upload form. Any data in the form that has the “Uploaded” designation, means that it has not yet been verified by the Alliance for the Chesapeake Bay's Group Coordinator, so you can still review the data and correct any possible errors made when entering it. Make any needed edits directly to the values within the form fields and then click the Save button at the bottom of the page.

53

You have no unpublished samples for this station.

Use the dropdown list to choose the sampling station for which you will be editing data.

Station	Sample Time	Group	Samples To Publish
53	01/20/2017 10:00 AM	Alliance for the Chesapeake...	0
53	02/19/2017 10:00 AM	Alliance for the Chesapeake...	0
53	06/20/2017 10:00 AM	Alliance for the Chesapeake...	0
53	07/19/2017 10:30 AM	Alliance for the Chesapeake...	0
53	08/17/2017 10:00 AM	Alliance for the Chesapeake...	0
53	09/21/2017 10:00 AM	Alliance for the Chesapeake...	0
53	10/20/2017 01:00 AM	Alliance for the Chesapeake...	0
53	11/16/2017 10:00 AM	Alliance for the Chesapeake...	0
53	12/27/2017 03:30 PM	Alliance for the Chesapeake...	0
53	02/22/2018 10:00 AM	Riverine Master Naturalists	0

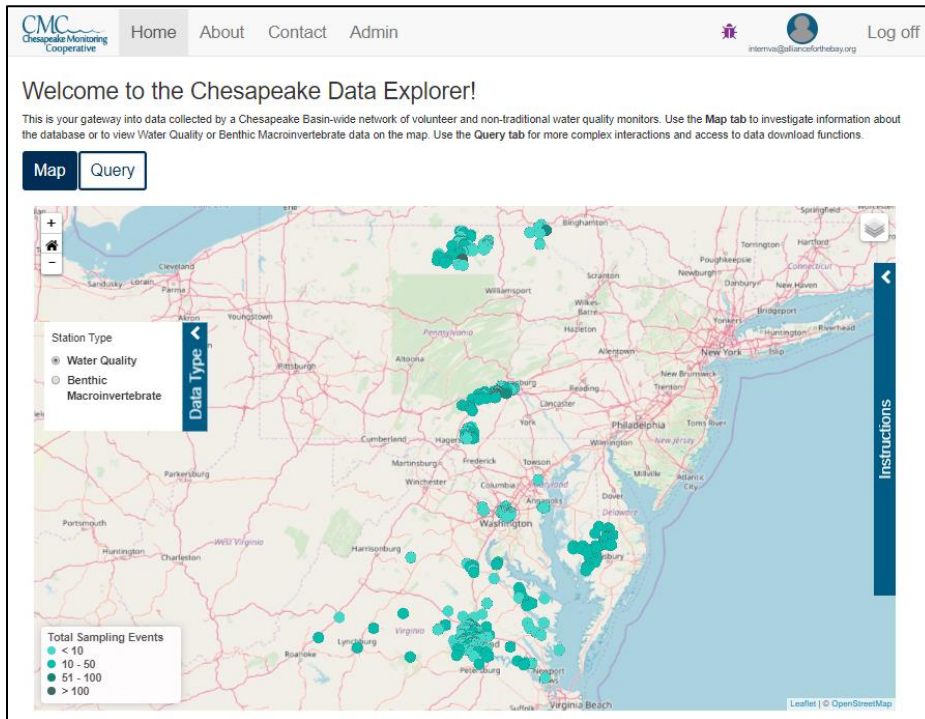
Download

Download Data

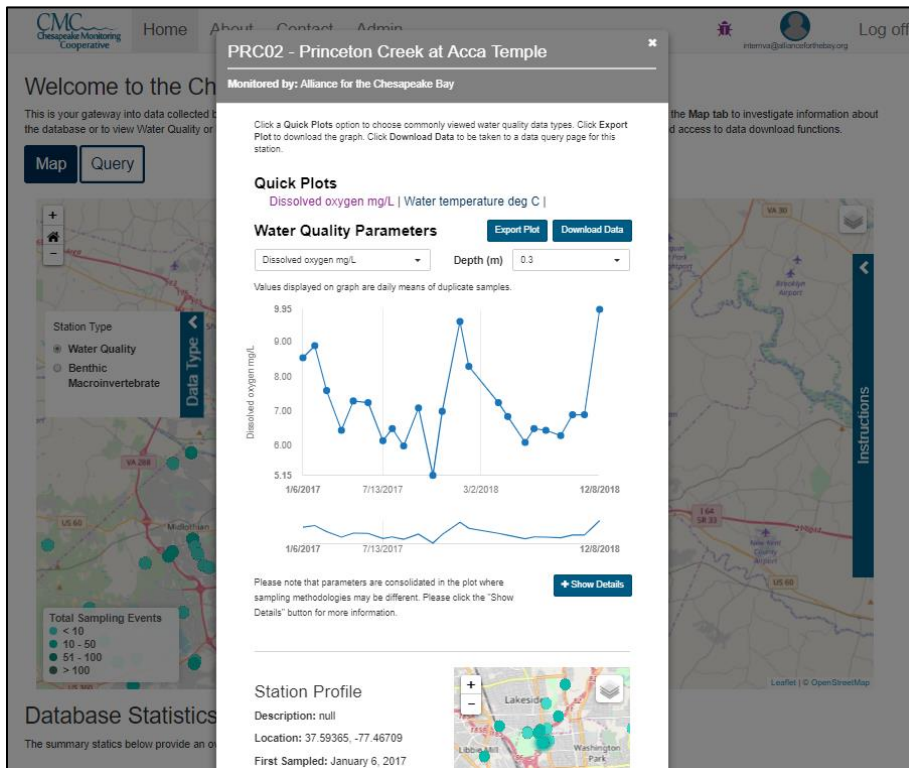
Plot Controls

Show Plot

To view and download data from any monitoring group in the database, click the CMC logo in the upper left hand corner of the screen to go to the homepage. From there you can use the Map feature to view stations with data.



You can click on a specific station to view the data available.



Click on the Query Tab to access the query function where you can download data for any group in the database.

The screenshot shows the Chesapeake Data Explorer website. At the top left is the CMC Chesapeake Monitoring Cooperative logo. The navigation menu includes Home, About, Contact, and Admin. On the top right, there is a user profile icon, the email address intervai@alliancesforthebay.org, and a Log off link. The main heading is "Welcome to the Chesapeake Data Explorer!". Below this is a paragraph explaining the site's purpose: "This is your gateway into data collected by a Chesapeake Basin-wide network of volunteer and non-traditional water quality monitors. Use the **Map** tab to investigate information about the database or to view **Water Quality** or **Benthic Macroinvertebrate** data on the map. Use the **Query** tab for more complex interactions and access to data download functions." Two buttons, "Map" and "Query", are shown below the text, with the "Query" button highlighted by a red rectangle. A detailed paragraph follows, explaining that users can download data from the CMC Data Explorer database by building a query through a form. It states that each selection narrows down options in subsequent steps, such as choosing James River from the "Watershed" selection box, which would then only show options available in the James River watershed. It also mentions that users can select associated metadata to include with their download and click "Get Results" to download their .csv file(s) of data. The form below contains several sections: "Data Type Filter" with a dropdown menu set to "Water Quality"; "Geographical Filter Type" with a dropdown menu set to "Political Boundary"; "States (Pick all that apply)" with a dropdown menu set to "All States"; "City/County (Pick all that apply)" with a dropdown menu set to "All Cities and Counties"; "Groups (Pick all that apply)" with a dropdown menu set to "All Groups"; "Stations (Pick all that apply)" with a dropdown menu set to "All Stations"; "Parameters (Pick all that apply)" with a dropdown menu set to "All Parameters"; "Start Date" and "End Date" input fields; and "Choose Optional Metadata to Include With Download:" with three checkboxes: "Groups", "Parameters", and "Stations", all of which are currently unchecked.

CMC Chesapeake Monitoring Cooperative

Home About Contact Admin

intervai@alliancesforthebay.org Log off

Welcome to the Chesapeake Data Explorer!

This is your gateway into data collected by a Chesapeake Basin-wide network of volunteer and non-traditional water quality monitors. Use the **Map** tab to investigate information about the database or to view **Water Quality** or **Benthic Macroinvertebrate** data on the map. Use the **Query** tab for more complex interactions and access to data download functions.

Map **Query**

On this page you can download data from the CMC Data Explorer database. Use the form below to build a query that will identify the specific data you want to download. As you step through the form, each selection will narrow down the possible options in subsequent steps. For example, if you choose James River from the "Watershed" selection box, then the subsequent selection boxes (sub-watershed, groups, stations, etc) will only show options available in the James River watershed. At the bottom of the form, use the check boxes to select the associated metadata you would like to include with your download. When you are finished making your selection, click **Get Results** to download your .csv file(s) of data.

Data Type Filter

Water Quality

Geographical Filter Type

Political Boundary

States (Pick all that apply)

All States

City/County (Pick all that apply)

All Cities and Counties

Groups (Pick all that apply)

All Groups

Stations (Pick all that apply)

All Stations

Parameters (Pick all that apply)

All Parameters

Start Date **End Date**

Choose Optional Metadata to Include With Download:

Groups

Parameters

Stations