

# Accessing AMS and RAMS Monitoring Data from USEPA's How's My Waterway Website

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NC Dept. of Environmental Quality, Div. of Water Resources, Water Sciences Section

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## Introduction

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The NC Department of Environmental Quality, Division of Water Resources (NCDEQ DWR) Water Sciences Section (WSS) has two primary programs that monitor water chemistry in streams, rivers, and estuaries: the Ambient Monitoring System (AMS) and Random Ambient Monitoring System (RAMS). Results from these monitoring programs are uploaded to the US Environmental Protection Agency's (USEPA) national water quality data warehouse, the Water Quality eXchange (WQX), on at least an annual basis. WQX is also the primary repository for monitoring data uploaded from many other state, federal, and local government agencies as well as non-profits, researchers, and other entities. Data stored in WQX are publicly available for download and USEPA provides several methods for accessing results. This document is focused on using USEPA's How's My Waterway (HMW) website to find and download AMS and RAMS results.

HMW is best suited for users interested in data discovery using a map-based interface or those that are looking for data from just one or a few monitoring stations. HMW integrates monitoring data uploaded to WQX with data from over 20 other federal data sources. So, in addition to monitoring data, you can also see locations of permitted dischargers, use support status of surface waters, fish consumption advisories, locations of water supplies, and even predictions of algal blooms for certain waters. This all helps put monitoring data into a larger watershed context. You're encouraged to explore these other features and data sources too.

For more information on understanding the data files you download from HMW, see the companion document, *Understanding AMS and RAMS Water Quality Monitoring Data*, available on the WSS website (link available in the [Resources](#) section of this document). It provides more details on the data format, what the different columns are in the data files, data qualifiers, and caveats.

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## How's My Waterway home page

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The How's My Waterway (HMW) home page is located at <https://mywaterway.epa.gov/>. The main page offers multiple ways to start your search (Figure 1). This tutorial will be using the search box near the top of the page to go to a specific location on the HMW map.

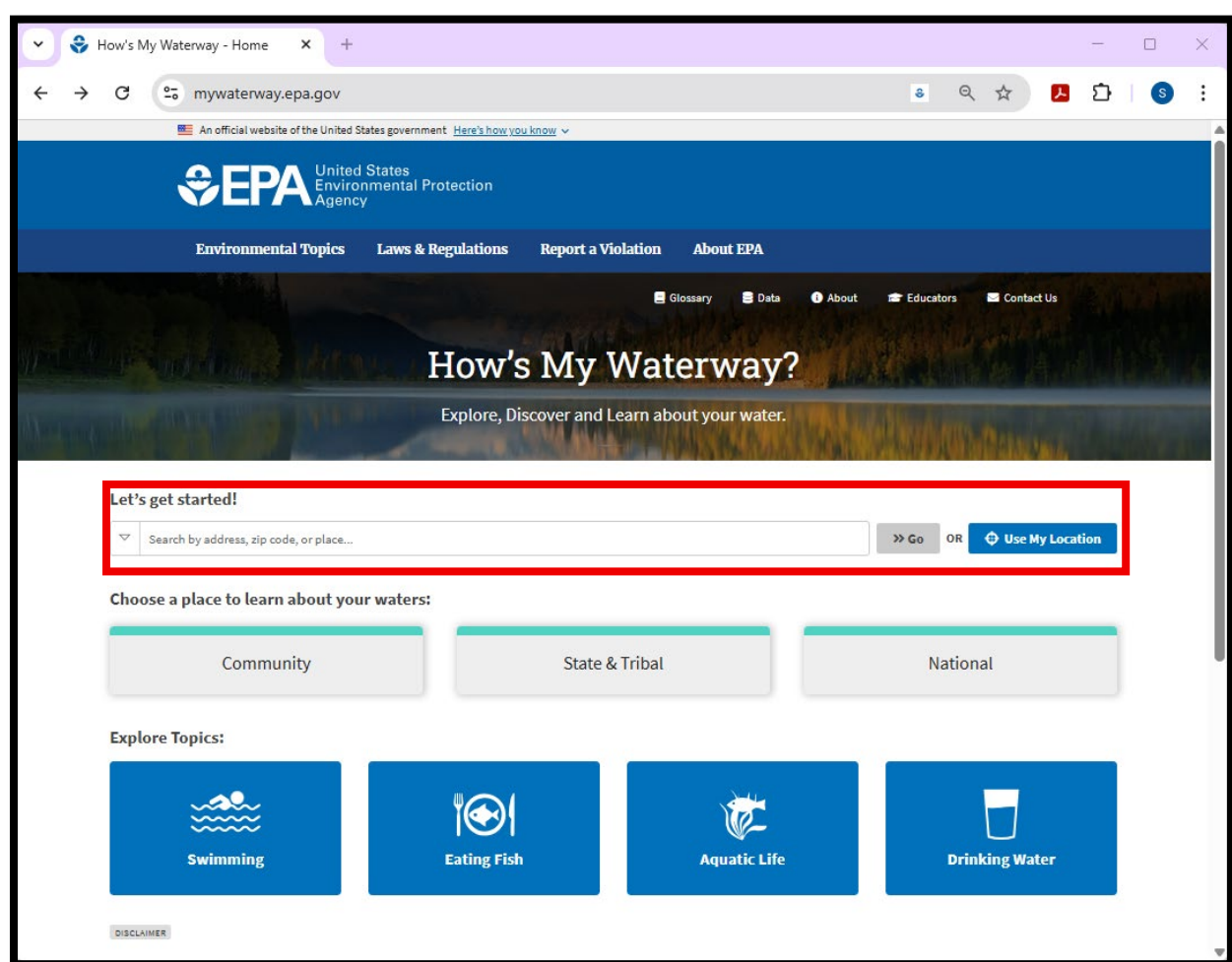


Figure 1 How's My Waterway (HMW) home page

## Search for a location

HMW is a map-based tool, so you'll need to first find a place to start - a place of interest. Enter a location in the search box on the home page that's labeled "Let's get started!" (red box in Figure 1). This can be a street address (like Salisbury St., Raleigh, NC), a place name (like Raleigh, NC), or major landscape feature (like a reservoir, such as B Everett Jordan Lake). You can also search for a monitoring station number or name in this box if you already have that information. Clicking on the ">>Go" button next to the search box takes you to the map interface, centered on the location you entered. In the example shown in Figure 2, "McLeansville, NC" was entered into the search box.

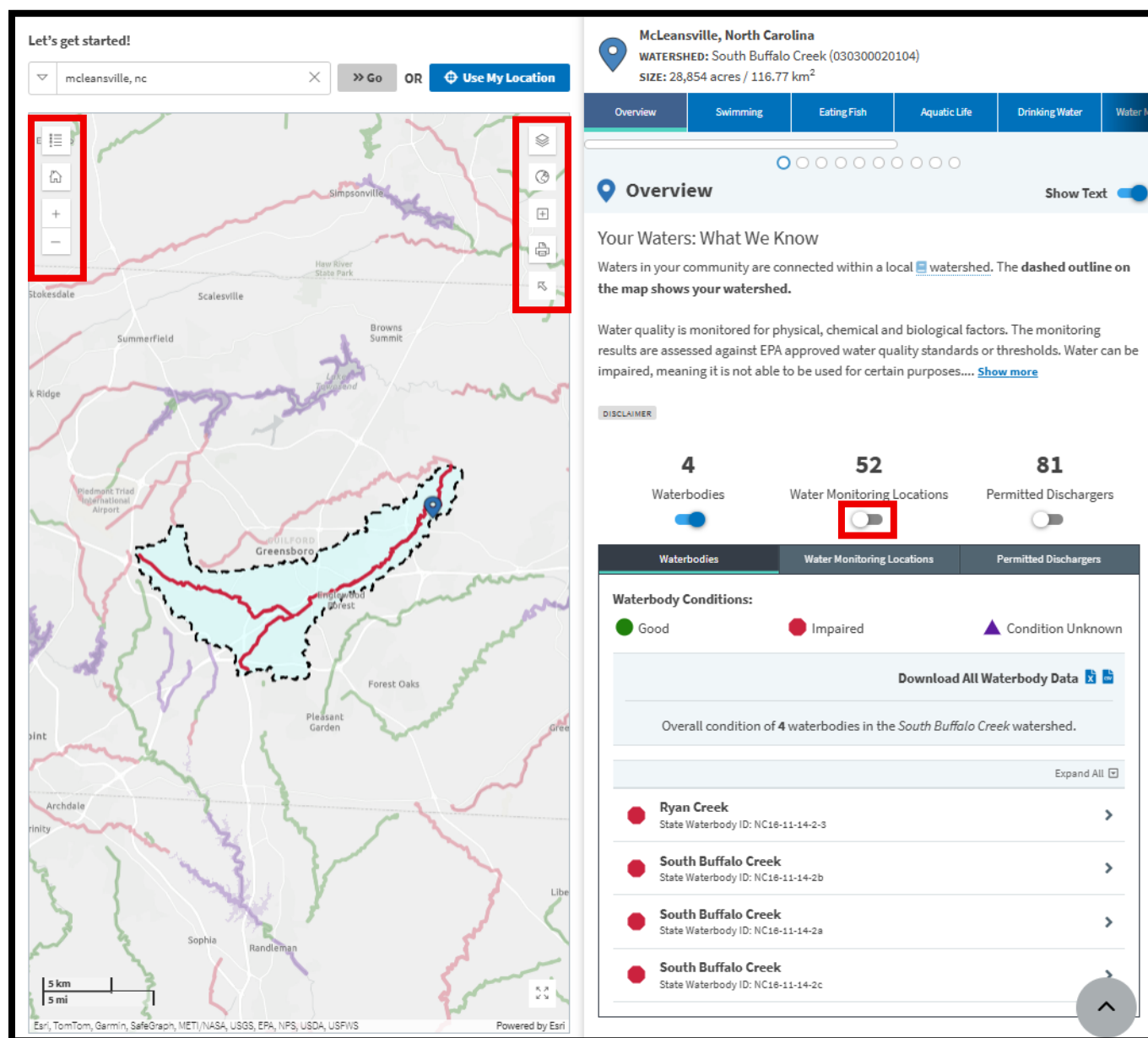


Figure 2 Main HMW map page. Red boxes show location of map navigation tools and toggle button to display Monitoring Locations on the map.

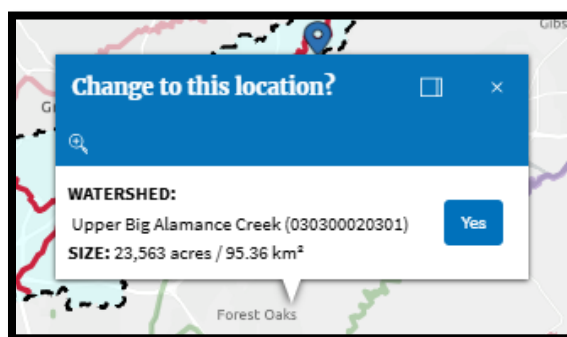
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## Navigating the map page

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On the search result page, you'll see a map of the requested location on the left, and many different options on the right (Figure 2). The default view of the map will have a blue icon that shows the location you searched for and also the watershed or catchment in which it's located, indicated by a black dashed shape with a light blue fill. You'll also see streams, rivers, reservoirs and other bodies of water indicated by different color lines (purple, green, and blue). You can navigate in the map using the clickable tools on the upper left and upper right of the map (outlined in red in Figure 2). There are also tools to turn on the legend, change the base layer, and turn map layers on and off. Clicking on the map will open a pop-up that describes the features located at the point you clicked. If there is more than one feature at the location you clicked, click the arrows at the bottom of the pop-up (< and >) to scroll through and view each of them.

If your search did not land you in quite the right place, you can navigate within the map to the area you're interested in and then click the new location on the map. A pop-up will ask you if you'd like to change to this location (Figure 3), with a description of the new watershed. Click Yes if you'd like to change your selected watershed to this new location.



*Figure 3 Change location pop-up*

To the right of the map frame on the search results page, there are a series of tabs along the top (scroll to the right to see all of them), though we'll be staying on the "Overview" tab for this tutorial (Figure 4). About midway down, the app tells you how many waterbodies, monitoring locations, and permitted dischargers are located in the selected watershed. Only waterbodies are shown on the map by default, but you can show or hide the monitoring locations and dischargers using the toggle buttons below each.

At the bottom of the Overview tab, you'll see descriptions of the waterbodies located in the selected watershed (Figure 4). There is also a key to the colors of the waterbodies in the map (Good, Impaired, or Condition Unknown). You can click on each of the waterbody names to get more information.

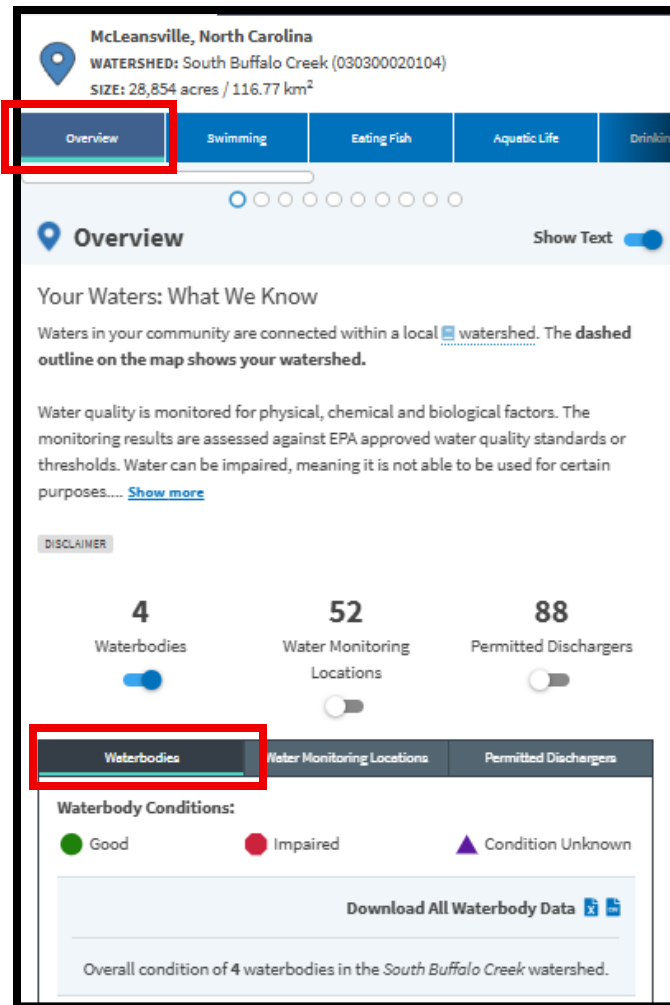


Figure 4 Detail of the search result page showing the location of the Overview and Waterbodies tabs.

## Identifying AMS and RAMS Water Monitoring Locations and Characteristics

HMW pulls water quality monitoring data from WQX, which is one of the largest repositories for this type of data in the U.S., and contains data submitted by many entities, including NCDEQ DWR's surface water monitoring programs. In many areas, the number of Monitoring Locations can be a little overwhelming. To identify sites that have data specifically from the AMS and RAMS programs, you'll need a little more information on how data are organized in WQX before you get started.

**Organization ID:** All organizations that submit their data to WQX (including NCDEQ DWR) are identified by a unique organization ID (OrgID) and organization name (OrgName). WSS uploads data from multiple monitoring programs to WQX and has been doing so for many decades. All of these different programs and time periods are organized under multiple OrgID codes and their corresponding OrgName codes. Knowing the correct OrgID and OrgName to use based on collection dates and program(s) will help you identify sites in HMW that have data collected from your time period and monitoring program of interest. Table 1

describes the different OrgIDs associated with AMS and RAMS results and the applicable date range for each program. For example, the most recent data from the AMS and RAMS programs are associated with OrgID **21NC03WQ**.

*Table 1 OrgIDs and OrgNames used by WSS in WQX, by program and collection date.*

| OrgID    | OrgName                                                                | Dates        | Monitoring program                      | ProjectID |
|----------|------------------------------------------------------------------------|--------------|-----------------------------------------|-----------|
| 21NC01WQ | NCDENR-DWQ                                                             | 1956-1997    | Historic/legacy DWR data                | N/A       |
| 21NC02WQ | NCDENR-DWQ (2 <sup>nd</sup> )                                          | 1997-2007    | Ambient Monitoring System (AMS)         | NCAMBNT   |
| 21NC03WQ | North Carolina Department of Environmental Resources<br>NCDENR-DWQ WQX | 2007-current | Ambient Monitoring System (AMS)         | NCAMBNT   |
|          |                                                                        |              | Random Ambient Monitoring System (RAMS) | NCRNDM    |

**Monitoring Site ID:** Each Water Monitoring Location shown in HMW will have a unique identifier, called the Monitoring Site ID. In WQX, the Monitoring Site IDs include the OrgID, a dash, and the unique station code identifying that monitoring location that has been assigned by the organization. WSS uses standardized station codes for AMS and RAMS that all follow the same naming pattern: a letter (indicating the river basin in which the site is located), followed by seven numbers (indicating relative location in the river basin). Information about currently active AMS and RAMS stations can be found on the programs’ web pages (see the [Resources](#) section at the end of this document).

For example, 21NC03WQ-B0750000 is the correct Monitoring Site ID for station B0750000 if you are looking for AMS and/or RAMS data collected since 2007. This station has been an active AMS site for many decades, though, so it will also have a Monitoring Site ID of 21NC01WQ-B0750000 (for data collected prior to mid-1997) and 21NC02WQ-B0750000 (for data collected from mid-1997 through 2007). Each of these will show on the map as an individual point.

**Characteristics:** This is the term used by USEPA to describe what was measured. In water quality monitoring, analytes or parameters are more commonly used (and equivalent) terms. The WQX data warehouse maintains a list of allowable “official” names for all the different Characteristics and all data must be uploaded using this list of Characteristic names.

It can be helpful to know the exact corresponding WQX Characteristic name you’re looking for when searching for data. A list of the most common parameter names used by NCDEQ DWR and their corresponding WQX Characteristic names is provided in [Appendix 1: WQX Characteristic Names](#).

Note that some analytes may have been uploaded under more than one Characteristic name. For example, nitrate + nitrite nitrogen (NO<sub>x</sub>) results are associated with two different Characteristic names: “Nitrate + Nitrite” and “Inorganic nitrogen (nitrate and nitrite) \*\*\*retired\*\*\*use Nitrate + Nitrite”. To ensure you retrieve all data for an analyte, make sure you search for all of the related Characteristic names.



# Finding AMS and RAMS data: Exploring in the map

After searching for a location and being taken to the map overview screen, the Water Monitoring Locations are not visible by default. You can show them by clicking the toggle button below Water Monitoring Locations (Figure 4), or by clicking the layers button in the map and clicking the eye icon next to Past Water Conditions in the menu (Figure 5). This will show monitoring locations with results from past sampling events as blue circles on the map, including any AMS and RAMS monitoring sites.

You can navigate in the map to explore locations, click to identify different features, etc. When you click on a Monitoring Location, a pop-up will give you more information on any/all Monitoring Locations located there. If multiple organizations/OrgID's have a monitoring location at that point, use the arrows (< and >) at the bottom of the pop-up to scroll through each feature at that location and see the descriptive info provided by each organization.

An example for AMS/RAMS site B0750000 is shown in Figure 6. At the top of this pop-up, it provides the station description, OrgName, OrgID, lat/long, and full WQX Monitoring Site ID. If you scroll further down in the pop-up (Figure 7), you'll see basic summaries of how many individual results are available at that site, by category (Nutrients, Pesticides, Metals, etc.) and total overall. Clicking the information icon ("i" in a grey circle) next to each Characteristic Group will give you a further breakdown of number of results for individual analytes in that group. For example, clicking the information icon next to Nutrients will

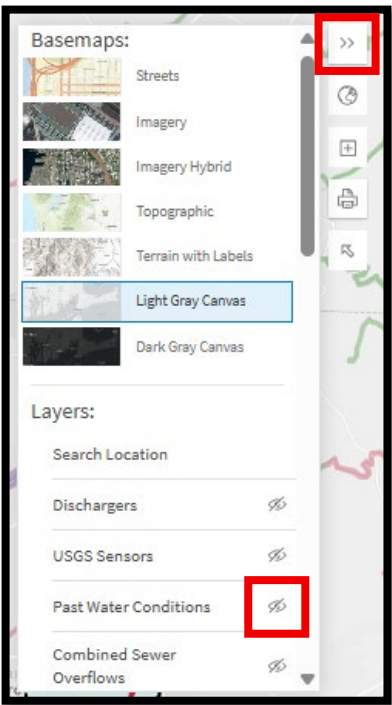


Figure 5 Layers menu in HMW map

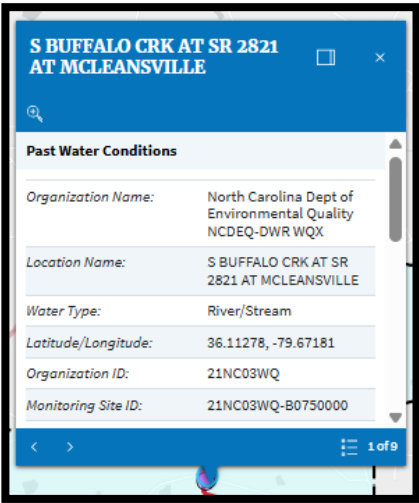


Figure 6 Example pop-up - site information. The red box shows the location of the buttons to navigate through all features at this point.

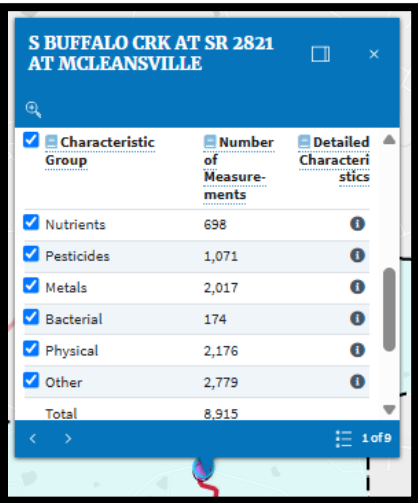


Figure 7 Example pop-up - data summaries

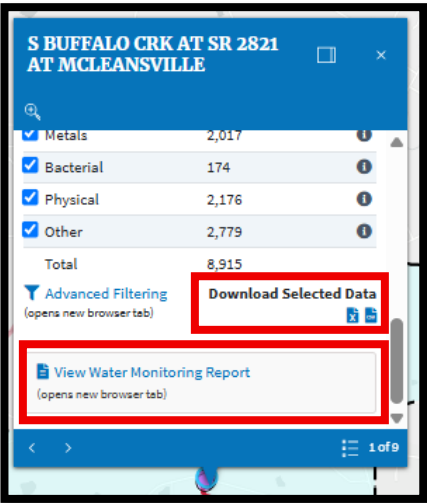


Figure 8 Example pop-up - links to data download and the Monitoring Location's web page

give you the number of individual results for Ammonia, Kjeldahl nitrogen, Phosphorus, and Nitrate + Nitrite (inorganic nitrogen).

At the bottom of the pop-up (Figure 8), there are several links, including one way (of many) to download the available data for the monitoring sites.

- The “Advanced Filtering” link will take you to the Water Quality Portal (WQP) website that allows more detailed searching of the data in the underlying USEPA WQX data warehouse. The WQP is just another way to access the same monitoring data that is shown in HMW. Using the WQP is not covered here, but there is a separate WQP guidance document available from the DWR Ecosystems Branch website (see the *Resources* section later in this document).
- “Download Selected Data” allows you to download the available results for this Monitoring Site ID as either an Excel (Download XLSX) or comma-delimited (Download CSV) file. Before downloading, you can filter the dataset by checking and unchecking the appropriate boxes next to the Characteristic Groups. The file will be saved to your browser’s default Download location on your computer.
- “View Water Monitoring Report” will open that monitoring site’s web page (Water Monitoring Report) in a new browser window. (These are discussed later in this document.)

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## Finding AMS and RAMS data: Water Monitoring Locations tab filters

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An alternative to navigating in the map to find Monitoring Locations is to use filters available on the Water Monitoring Locations tab (directly below the Water Monitoring Locations button) (Figure 9). By default, only the Waterbodies tab will be shown. Click on the Water Monitoring Locations tab. This will turn on the Water Monitoring Locations layer on the map (if not already visible) and also show a list of the monitoring locations located in the watershed selected on the map (Figure 9). For this watershed, there are over 50 monitoring sites with available data.

Clicking on a Location name in the list expands it and shows station information, a summary of available data, a View on Map button (zooms the map to that site), and links to Advanced Filtering, Download Select Data, and View Water Monitoring Report. This is the same information that was provided in the pop-ups described previously in the *Navigating the map page* section.

This particular watershed (South Buffalo Creek) has an unusually high number (53) of monitoring sites with available data. Instead of clicking through each one to see what types of data are available and what organization collected them, you can filter the sites using the search boxes. When you click in one of these search boxes, you’ll get a scrollable list of options available for that particular watershed. In other words, only Characteristics, Organizations, or Location Names with associated data in the selected watershed will be shown. You can also just begin typing and the list will be filtered as you type. (See the *Identifying AMS and RAMS Water Monitoring Locations and Characteristics* section for information on Characteristics and Organizations specific to AMS and RAMS.)



Once you find the value(s) you want, click on them in the dropdown to select them. You can select multiple values in the Characteristics and Organizations (OrgName) search boxes. As you add new entries into each of these fields, the list of Monitoring Locations at the bottom of this pane will be automatically filtered and updated. You can click to expand one or more to download data or view the Water Monitoring Report webpage for a site.

4 Waterbodies 52 Water Monitoring Locations 81 Permitted Dischargers

Water Monitoring Locations

Water is monitored by state, federal, tribal, and local agencies. Universities, volunteers and others also help detect water quality concerns.

Past Water Conditions USGS Sensors Potential Harmful Algal Blooms (HABs)

Water quality monitoring locations are shown on the map as both purple circles and yellow squares.... [Show more](#)

| Water Conditions                      | Count |
|---------------------------------------|-------|
| USGS Sensors                          | 0     |
| Past Water Conditions                 | 52    |
| Potential Harmful Algal Blooms (HABs) | 0     |

Filter Past Water Conditions By: ▾

Filter by Characteristics:

Filter by Organizations:

52 of 52 locations with data in the South Buffalo Creek watershed.

Sort By:  Expand All

**GRASS RIGHT-OF-WAY ALG BUDDINGWOOD D NR POMONA, NC**  
 Monitoring Type: Past Water Conditions  
 Organization Name: USGS North Carolina Water Science Center  
 Water Type: Land  
 Monitoring Measurements: T3

**GRASS RIGHT-OF-WAY ALG WENDOVER A W NR POMONA, NC**  
 Monitoring Type: Past Water Conditions  
 Organization Name: USGS North Carolina Water Science Center  
 Water Type: Land  
 Monitoring Measurements: T3

Figure 9 Water Monitoring Locations tab

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## Water Monitoring Reports

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Each individual Monitoring Location has a Water Monitoring Report for more detailed information and data summaries. It is accessible by clicking on the View Water Monitoring Report link in the pop-up box (when using the identify tool in the map interface) or in the Water Monitoring Location tab. The Water Monitoring Report for site 21NC03WQ-B0750000 is shown in Figure 10 and Figure 11.

However, if you know the OrgID and station location code you can access the Water Monitoring Report for an individual monitoring site directly by entering a URL in your browser in the following format:

[https://mywaterway.epa.gov/monitoring-report/STORET/\[OrgID\]/\[OrgID\]-\[Station\]/](https://mywaterway.epa.gov/monitoring-report/STORET/[OrgID]/[OrgID]-[Station]/)

Replace *[OrgID]* and *[Station]* with the appropriate codes (don't forget the forward slashes and dash!) and you will go directly to the Waterbody Monitoring Report page for that OrgID/Station. For example, to access all data from AMS station B0750000 collected between 2007-current (i.e., OrgID NC2103WQ), you would use this URL:

<https://mywaterway.epa.gov/monitoring-report/STORET/21NC03WQ/21NC03WQ-B0750000/>

The Water Monitoring Report includes a description of the location, a map of the location, and similar data summaries as what is shown in the pop-up (in map view) or the Water Monitoring Location tab (number of results by group, total number of results). However, this page allows you to see details on the number of results and number of “detectable” results (i.e., are *not* non-detects) by individual Characteristic; view graphs of available data for up to four Characteristics at a time; and see a basic summary for each of the selected Characteristics. This page allows the same data download capabilities as the pop-up and Water Monitoring Location tab that were discussed earlier, including filtering by Characteristic Groups, but also allows you to filter by collection date.

The different sections of a typical Water Monitoring Report web page are described in Figure 10 and Figure 11.

The graphs on the HMW Water Monitoring Report site pages  
**do not include results reported as non-detects**  
so the graphs may appear to have large gaps or be incomplete.  
Download the data to get the complete dataset, including non-detects.

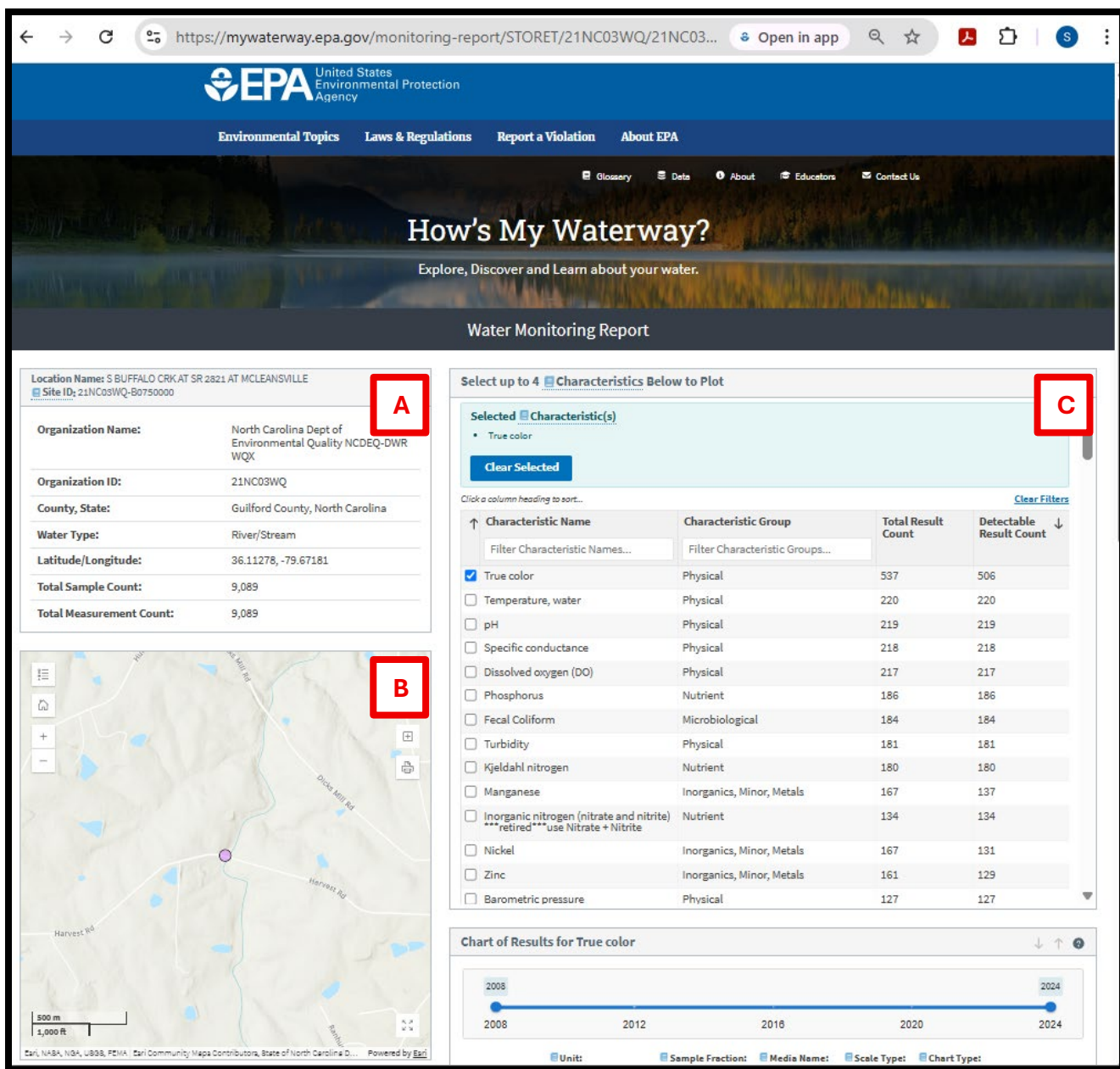


Figure 10 Top portion of Water Monitoring Report for site 21NC03WQ-B0750000. Section A: Monitoring location information. Section B: Interactive map showing monitoring location. Section C: Summary of total number of results (Total Result Count) and number of detectable results (Detectable Result Count) for each individual characteristic. Up to four characteristics can be selected in Section C and graphs of available results will be shown below (see Section E of Figure 11). The Characteristics can be sorted by clicking each of the column headers (Characteristic Name, Characteristic Group, Total Result Count, Detectable Result Count). They can also be filtered by using the search boxes under Characteristic Name and Characteristic Group.

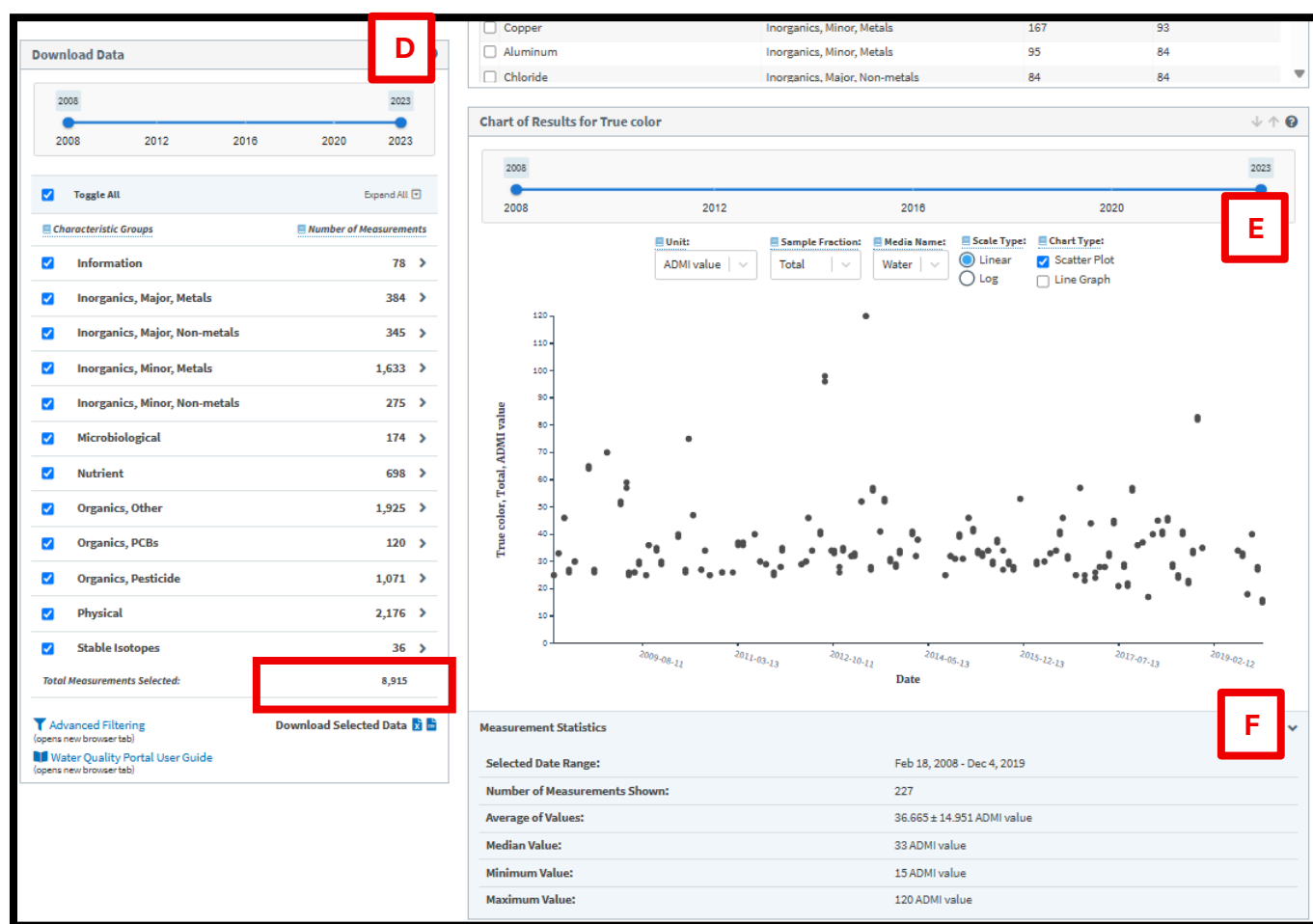


Figure 11 Bottom portion of Water Monitoring Report for site 21NC03WQ-B0750000. Section D: Allows filtering data by year collected and/or by Characteristic Group and downloading as Excel (XLSX) or comma-delimited (CSV) file using the Download Selected Data link. Section E: Graph(s) of results for characteristic(s) selected in Section C (see Figure 10). Only results reported above the analytical reporting limit are displayed (i.e., non-detects are not graphed). The year slider can be used to adjust the x-axis to custom year ranges. The dropdowns, radio buttons, and check boxes can be used to modify the fraction of interest (e.g., total or dissolved metals), log or linear scale on the y-axis, or graph type (scatter or line). Section F: A basic statistical summary for each of the selected characteristics.

## Resources

How's My Waterway: <https://mywaterway.epa.gov/>

Ambient Monitoring System (AMS): <https://www.deq.nc.gov/about/divisions/water-resources/water-sciences/ecosystems-branch/ambient-monitoring-system-ams>

Random Ambient Monitoring System (RAMS): <https://www.deq.nc.gov/about/divisions/water-resources/water-sciences/ecosystems-branch/random-ambient-monitoring-system-rams>

NC DEQ DWR Ecosystems Branch: <https://www.deq.nc.gov/about/divisions/water-resources/water-sciences/ecosystems-branch>

## Appendix 1: WQX Characteristic Names

The following tables include most of the parameters/analytes that have been collected by the AMS and RAMS programs and the corresponding characteristic name(s) used by WQX. Separate tables are provided for inorganics, pesticides, volatile organics, and semi-volatile organics. If an individual parameter has more than one WQX Characteristic name, each WQX name is given on a separate line.

### Inorganics, field, physical, and bacteria

| Parameter Group    | Parameter Full Name                                                     | WQX Characteristic Name                                                                          |
|--------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Alkalinity         | Alkalinity, bicarbonate                                                 | Alkalinity, bicarbonate                                                                          |
| Alkalinity         | Alkalinity, carbonate                                                   | Alkalinity, carbonate                                                                            |
| Alkalinity         | Alkalinity, phenolphthalein                                             | Alkalinity, Phenolphthalein (total hydroxide+1/2 carbonate)                                      |
| Alkalinity         | Alkalinity, total                                                       | Alkalinity, total                                                                                |
| Anions             | Bromide                                                                 | Bromide                                                                                          |
| Anions             | Chloride                                                                | Chloride                                                                                         |
| Anions             | Fluoride                                                                | Fluoride                                                                                         |
| Anions             | Sulfate                                                                 | Sulfate                                                                                          |
| Bacteria           | Fecal coliform                                                          | Fecal Coliform                                                                                   |
| BOD                | Biological Oxygen Demand, 5-day                                         | Biochemical oxygen demand, standard conditions                                                   |
| Cyanide            | Cyanide, total                                                          | Cyanide                                                                                          |
| Color              | Color, ADMI at adjusted pH<br>Color, ADMI at natural pH<br>Color, Pt-Co | True color                                                                                       |
| Field measurements | Barometric pressure                                                     | Barometric pressure                                                                              |
| Field measurements | Dissolved oxygen concentration                                          | Dissolved oxygen (DO)                                                                            |
| Field measurements | Dissolved oxygen saturation                                             | Dissolved oxygen saturation                                                                      |
| Field measurements | pH                                                                      | pH                                                                                               |
| Field measurements | Salinity                                                                | Salinity                                                                                         |
| Field measurements | Secchi depth                                                            | Depth, Secchi disk depth                                                                         |
| Field measurements | Specific conductance                                                    | Specific conductance                                                                             |
| Field measurements | Water temperature                                                       | Temperature, water                                                                               |
| Grease and oil     | Grease and oil                                                          | Oil and Grease                                                                                   |
| Hardness           | Hardness                                                                | Hardness, Ca, Mg<br>Hardness, carbonate                                                          |
| Sulfide            | Sulfide                                                                 | Sulfide                                                                                          |
| Turbidity          | Turbidity                                                               | Turbidity                                                                                        |
| Residues/solids    | Residue, fixed suspended                                                | Fixed dissolved solids                                                                           |
| Residues/solids    | Residue, total                                                          | Total solids                                                                                     |
| Residues/solids    | Residue, total fixed                                                    | Total fixed solids                                                                               |
| Residues/solids    | Residue, total suspended                                                | Total suspended solids                                                                           |
| Residues/solids    | Residue, total volatile                                                 | Total volatile solids                                                                            |
| Residues/solids    | Residue, volatile suspended                                             | Volatile suspended solids                                                                        |
| Chlorophyll        | Chlorophyll a                                                           | Chlorophyll a                                                                                    |
| Nutrients          | Ammonia                                                                 | Ammonia<br>Ammonia-nitrogen                                                                      |
| Nutrients          | Nitrite + nitrate                                                       | Nitrate + Nitrite<br>Inorganic nitrogen (nitrate and nitrite) ***retired***use Nitrate + Nitrite |
| Nutrients          | Orthophosphate                                                          | Orthophosphate                                                                                   |
| Nutrients          | Phosphorus                                                              | Phosphorus                                                                                       |
| Nutrients          | Total Kjeldahl nitrogen                                                 | Kjeldahl nitrogen                                                                                |
| Algal toxins       | Microcystins                                                            | Microcystin                                                                                      |
| Organic carbon     | DOC, TOC                                                                | Organic carbon                                                                                   |

| Parameter Group | Parameter Full Name | WQX Characteristic Name |
|-----------------|---------------------|-------------------------|
| Metals          | Aluminum            | Aluminum                |
| Metals          | Arsenic             | Arsenic                 |
| Metals          | Beryllium           | Beryllium               |
| Metals          | Cadmium             | Cadmium                 |
| Metals          | Calcium             | Calcium                 |
| Metals          | Chromium            | Chromium                |
| Metals          | Copper              | Copper                  |
| Metals          | Iron                | Iron                    |
| Metals          | Lead                | Lead                    |
| Metals          | Magnesium           | Magnesium               |
| Metals          | Manganese           | Manganese               |
| Metals          | Mercury             | Mercury                 |
| Metals          | Nickel              | Nickel                  |
| Metals          | Potassium           | Potassium               |
| Metals          | Selenium            | Selenium                |
| Metals          | Silver              | Silver                  |
| Metals          | Sodium              | Sodium                  |
| Metals          | Zinc                | Zinc                    |

## Organics – Pesticides

| Parameter Group               | Parameter Full Name  | WQX Characteristic Name       |
|-------------------------------|----------------------|-------------------------------|
| Chlorinated pesticides (PCBs) | Aroclor 1016         | Aroclor 1016                  |
| Chlorinated pesticides (PCBs) | Aroclor 1221         | Aroclor 1221                  |
| Chlorinated pesticides (PCBs) | Aroclor 1232         | Aroclor 1232                  |
| Chlorinated pesticides (PCBs) | Aroclor 1242         | Aroclor 1242                  |
| Chlorinated pesticides (PCBs) | Aroclor 1248         | Aroclor 1248                  |
| Chlorinated pesticides (PCBs) | Aroclor 1254         | Aroclor 1254                  |
| Chlorinated pesticides (PCBs) | Aroclor 1260         | Aroclor 1260                  |
| Chlorinated pesticides (PCBs) | Aroclor 1262         | Aroclor 1262                  |
| Chlorinated pesticides        | Aldrin               | Aldrin                        |
| Chlorinated pesticides        | BHC-Alpha            | .alpha.-Hexachlorocyclohexane |
| Chlorinated pesticides        | BHC-Beta             | .beta.-Hexachlorocyclohexane  |
| Chlorinated pesticides        | BHC-Delta            | .delta.-Hexachlorocyclohexane |
| Chlorinated pesticides        | BHC-Gamma (Lindane)  | Lindane                       |
| Chlorinated pesticides        | Chlordane, Alpha     | cis-Chlordane                 |
| Chlorinated pesticides        | Chlordane, Gamma     | trans-Chlordane               |
| Chlorinated pesticides        | Chlordane, Technical | Chlordane                     |
| Chlorinated pesticides        | Chlorothalonil       | Chlorothalonil                |
| Chlorinated pesticides        | DDD 4,4              | p,p'-DDD                      |
| Chlorinated pesticides        | DDE 4,4              | p,p'-DDE                      |
| Chlorinated pesticides        | DDT 4,4              | p,p'-DDT                      |
| Chlorinated pesticides        | Dieldrin             | Dieldrin                      |
| Chlorinated pesticides        | Endosulfan I         | .alpha.-Endosulfan            |
| Chlorinated pesticides        | Endosulfan II        | .beta.-Endosulfan             |
| Chlorinated pesticides        | Endosulfan sulfate   | Endosulfan sulfate            |
| Chlorinated pesticides        | Endrin               | Endrin                        |
| Chlorinated pesticides        | Endrin Aldehyde      | Endrin aldehyde               |
| Chlorinated pesticides        | Endrin Ketone        | Endrin ketone                 |
| Chlorinated pesticides        | Heptachlor           | Heptachlor                    |
| Chlorinated pesticides        | Heptachlor epoxide   | Heptachlor epoxide            |
| Chlorinated pesticides        | Methoxychlor         | Methoxychlor                  |
| Chlorinated pesticides        | Toxaphene            | Toxaphene                     |
| Nitrogenous pesticides        | Ametryn              | Ametryn                       |



| Parameter Group        | Parameter Full Name | WQX Characteristic Name |
|------------------------|---------------------|-------------------------|
| Nitrogenous pesticides | Atraton             | Atraton                 |
| Nitrogenous pesticides | Atrazine            | Atrazine                |
| Nitrogenous pesticides | Metolachlor         | Metolachlor             |
| Nitrogenous pesticides | Prometon            | Prometon                |
| Nitrogenous pesticides | Prometryn           | Prometryn               |
| Nitrogenous pesticides | Propazine           | Propazine               |
| Nitrogenous pesticides | Secbumeton          | Secbumeton              |
| Nitrogenous pesticides | Simazine            | Simazine                |
| Nitrogenous pesticides | Simetryn            | Simetryn                |
| Nitrogenous pesticides | Terbuthylazine      | Terbuthylazine          |
| Nitrogenous pesticides | Terbutryn           | Terbutryn               |
| Phosphorous pesticides | Azinphos-Methyl     | Azinphos-methyl         |
| Phosphorous pesticides | Chlorpyrifos        | Chlorpyrifos            |
| Phosphorous pesticides | Demeton             | Demeton                 |
| Phosphorous pesticides | Diazinon            | Diazinon                |
| Phosphorous pesticides | Disulfoton          | Disulfoton              |
| Phosphorous pesticides | Ethion              | Ethion                  |
| Phosphorous pesticides | Malathion           | Malathion               |
| Phosphorous pesticides | Naled               | Naled                   |
| Phosphorous pesticides | Parathion, Ethyl    | Parathion               |
| Phosphorous pesticides | Parathion, Methyl   | Methyl parathion        |

## Organics – Semi-volatiles

| Parameter Full Name              | WQX Characteristic Name           |
|----------------------------------|-----------------------------------|
| Acenaphthylene                   | Acenaphthylene                    |
| Aniline                          | Aniline                           |
| Anthracene                       | Anthracene                        |
| Benzo(a)anthracene               | Benzo[a]anthracene                |
| Benzo(a)pyrene                   | Benzo[a]pyrene                    |
| Benzo(b)fluoranthene             | Benzo(b)fluoranthene              |
| Benzo(g,h,i)perylene             | Benzo[ghi]perylene                |
| Benzo(k)fluoranthene             | Benzo[k]fluoranthene              |
| Benzoic acid                     | Benzoic acid                      |
| Benzyl alcohol                   | Benzyl alcohol                    |
| Bis(2-chloro-1-methylethyl)ether | Bis(2-chloro-1-methylethyl) ether |
| Bis(2-chloroethoxy)methane       | Bis(2-chloroethoxy)methane        |
| Bis(2-chloroethyl)ether          | Bis(2-chloroethyl) ether          |
| Bis(2-ethylhexyl)phthalate       | Di(2-ethylhexyl) phthalate        |
| Bromophenyl phenyl ether, 4-     | BDE-003                           |
| Butylbenzyl phthalate            | Butyl benzyl phthalate            |
| Chloro-3-methyl phenol, 4-       | p-Chloro-m-cresol                 |
| Chloroaniline, 4-                | p-Chloroaniline                   |
| Chloronaphthalene, 2-            | 2-Chloronaphthalene               |
| Chlorophenol, 2-                 | o-Chlorophenol                    |
| Chlorophenyl phenyl ether, 4-    | p-Chlorophenyl phenyl ether       |
| Chrysene                         | Chrysene                          |
| Dibenzo(a,h)anthracene           | Dibenz[a,h]anthracene             |
| Dibenzofuran                     | Dibenzofuran                      |
| Dichlorobenzene, 1,2-            | o-Dichlorobenzene                 |
| Dichlorobenzene, 1,3-            | m-Dichlorobenzene                 |
| Dichlorobenzene, 1,4-            | p-Dichlorobenzene                 |
| Dichlorobenzidine, 3,3'-         | 3,3'-Dichlorobenzidine            |
| Dichlorophenol, 2,4-             | 2,4-Dichlorophenol                |

| Parameter Full Name           | WQX Characteristic Name   |
|-------------------------------|---------------------------|
| Diethyl phthalate             | Diethyl phthalate         |
| Dimethyl phthalate            | Dimethyl phthalate        |
| Dimethylphenol, 2,4-          | 2,4-Dimethylphenol        |
| Di-n-butyl phthalate          | Dibutyl phthalate         |
| Dinitro-2-methyl phenol, 4,6- | 4,6-Dinitro-o-cresol      |
| Dinitrophenol, 2,4-           | 2,4-Dinitrophenol         |
| Dinitrotoluene, 2,4-          | 2,4-Dinitrotoluene        |
| Dinitrotoluene, 2,6-          | 2,6-Dinitrotoluene        |
| Di-n-octyl phthalate          | Di-n-octyl phthalate      |
| Fluoranthene                  | Fluoranthene              |
| Fluorene                      | Fluorene                  |
| Hexachlorobenzene             | Hexachlorobenzene         |
| Hexachlorocyclopentadiene     | Hexachlorocyclopentadiene |
| Hexachloroethane              | Hexachloroethane          |
| Indeno(1,2,3-cd)pyrene        | Indeno[1,2,3-cd]pyrene    |
| Isophorone                    | Isophorone                |
| Methylnaphthalene, 2-         | 2-Methylnaphthalene       |
| Methylphenol, 2-              | o-Cresol                  |
| Methylphenol, 4-              | p-Cresol                  |
| Nitroaniline, 2-              | o-Nitroaniline            |
| Nitroaniline, 3-              | m-Nitroaniline            |
| Nitroaniline, 4-              | p-Nitroaniline            |
| Nitrobenzene                  | Nitrobenzene              |
| Nitrophenol, 2-               | o-Nitrophenol             |
| Nitrophenol, 4-               | p-Nitrophenol             |
| N-nitrosodi-n-propylamine     | N-Nitrosodi-n-propylamine |
| N-nitrosodiphenylamine        | N-Nitrosodiphenylamine    |
| Pentachlorophenol             | Pentachlorophenol         |
| Phenanthrene                  | Phenanthrene              |
| Phenol                        | Phenol                    |
| Pyrene                        | Pyrene                    |
| Trichlorobenzene, 1,2,4-      | 1,2,4-Trichlorobenzene    |
| Trichlorophenol, 2,4,5-       | 2,4,5-Trichlorophenol     |
| Trichlorophenol, 2,4,6-       | 2,4,6-Trichlorophenol     |

### Organics - Volatiles

| Parameter Full Name         | WQX Characteristic Name     |
|-----------------------------|-----------------------------|
| 1,1,1,2-Tetrachloroethane   | 1,1,1,2-Tetrachloroethane   |
| 1,1,1-Trichloroethane       | 1,1,1-Trichloroethane       |
| 1,1,2,2-Tetrachloroethane   | 1,1,2,2-Tetrachloroethane   |
| 1,1,2-Trichloroethane       | 1,1,2-Trichloroethane       |
| 1,1-Dichloroethane          | 1,1-Dichloroethane          |
| 1,1-Dichloroethene          | 1,1-Dichloroethylene        |
| 1,1-Dichloropropene         | 1,1-Dichloropropene         |
| 1,2,3-Trichlorobenzene      | 1,2,3-Trichlorobenzene      |
| 1,2,3-Trichloropropane      | 1,2,3-Trichloropropane      |
| 1,2,4-Trichlorobenzene      | 1,2,4-Trichlorobenzene      |
| 1,2,4-Trimethylbenzene      | 1,2,4-Trimethylbenzene      |
| 1,2-Dibromo-3-Chloropropane | 1,2-Dibromo-3-chloropropane |
| 1,2-Dibromoethane (EDB)     | Ethylene dibromide          |
| 1,2-Dichloroethane          | 1,2-Dichloroethane          |

|                             |                            |
|-----------------------------|----------------------------|
| 1,2-Dichloropropane         | 1,2-Dichloropropane        |
| 1,3,5-Trimethylbenzene      | 1,3,5-Trimethylbenzene     |
| 1,3-Dichloropropane         | 1,3-Dichloropropane        |
| 1,4-Dioxane                 | 1,4-Dioxane                |
| 2,2-Dichloropropane         | 2,2-Dichloropropane        |
| 2-Chlorotoluene             | o-Chlorotoluene            |
| 4-Chlorotoluene             | p-Chlorotoluene            |
| Benzene                     | Benzene                    |
| Bromobenzene                | Bromobenzene               |
| Bromochloromethane          | Halon 1011                 |
| Bromodichloromethane        | Dichlorobromomethane       |
| Bromoform                   | Tribromomethane            |
| Bromomethane                | Methyl bromide             |
| Carbon tetrachloride        | Carbon tetrachloride       |
| Chlorobenzene               | Chlorobenzene              |
| Chloroethane                | Chloroethane               |
| Chloroform                  | Chloroform                 |
| Chloromethane               | Chloromethane              |
| cis-1,2-Dichloroethene      | cis-1,2-Dichloroethylene   |
| cis-1,3-Dichloropropene     | cis-1,3-Dichloropropene    |
| Dibromochloromethane        | Chlorodibromomethane       |
| Dibromomethane              | Dibromomethane             |
| Dichlorodifluoromethane     | CFC-12                     |
| Ethylbenzene                | Ethylbenzene               |
| Hexachlorobutadiene         | Hexachlorobutadiene        |
| Isopropylbenzene            | Cumene                     |
| m,p-Xylene                  | m,p-Xylene                 |
| m-Dichlorobenzene (1,3)     | m-Dichlorobenzene          |
| Methyl Tert-Butyl Ether     | Methyl tert-butyl ether    |
| Methylene Chloride          | Methylene chloride         |
| Naphthalene                 | Naphthalene                |
| n-Butylbenzene              | n-Butylbenzene             |
| n-Propylbenzene             | n-Propylbenzene            |
| o-Dichlorobenzene (1,2)     | o-Dichlorobenzene          |
| o-Xylene                    | o-Xylene                   |
| p-Dichlorobenzene (1,4)     | p-Dichlorobenzene          |
| p-Isopropyltoluene          | p-Cymene                   |
| sec-Butylbenzene            | sec-Butylbenzene           |
| Styrene                     | Styrene                    |
| tert-Butylbenzene           | tert-Butylbenzene          |
| Tetrachloroethane, 1,1,2,2- | 1,1,2,2-Tetrachloroethane  |
| Tetrachloroethene           | Tetrachloroethylene        |
| Toluene                     | Toluene                    |
| trans-1,2-Dichloroethene    | trans-1,2-Dichloroethylene |
| trans-1,3-Dichloropropene   | trans-1,3-Dichloropropene  |
| Trichloroethene             | Trichloroethylene          |
| Trichlorofluoromethane      | CFC-11                     |
| Vinyl Chloride              | Vinyl chloride             |