

Accessing AMS and RAMS Monitoring Data from USEPA's Water Quality Portal Website

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

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Introduction

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 U.S. 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.

One method for accessing the data is the Water Quality Portal (WQP) website. This document will walk you through using the WQP to search and download AMS and RAMS water chemistry data. Using the WQP website is generally the most efficient way to download AMS and RAMS results if you are interested in downloading all available data from a relatively large area (county, HUC, bounding box, etc.) or if you already know the specific monitoring location(s) you are interested in. This document assumes you already have some experience with accessing, downloading, and using water quality data and some familiarity with the AMS and RAMS programs, in which case, WQP is likely a better choice for accessing AMS and RAMS data. If you are somewhat new to this, would prefer a more exploratory approach to see what data are available in an area, or are interested in a single sampling location, then How's My Waterway (HMW) may be a better option for accessing data than the WQP. There is a separate guidance document on using HMW on the WSS Ecosystems website (see the [Resources](#) section later in this document for a link).

For more information on understanding the data files you download from the WQP, see the companion document, *Understanding AMS and RAMS Water Quality Monitoring Data*, available on the NCDEQ DWR WSS Ecosystems Branch (EB) website (see *Resources* section of this document). It provides more details on the data format, what information is contained in the different columns in the data files, data qualifiers, and caveats.

Water Quality Portal home page

The Water Quality Portal (WQP) home page is located at <https://www.waterqualitydata.us/> (Figure 1). There are two options for searching for data (Basic and Advanced), but the Advanced search function will be more useful in most cases. From the home page, click on the Advanced tab to get started.

In the Advanced tab, you'll see three main sections where you can enter search criteria: Select Location Parameters, Filter Results, and Download the Data.

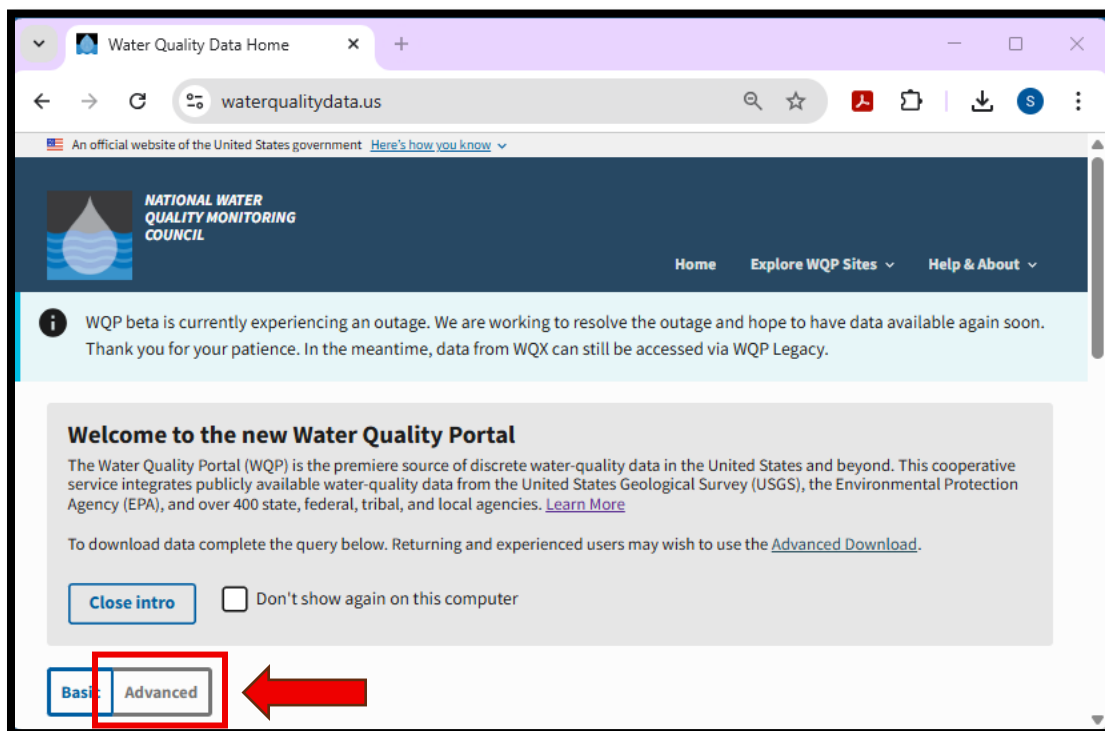


Figure 1 Main Water Quality Portal web page

Select Location Parameters

The top section of the Advanced search tab (Select Location Parameters) allows you to specify an area of interest, organization(s), or specific site ID(s).

Select Location Parameters

Specify location parameters to describe the spatial extent of the desired dataset. All fields are optional.

Country ⓘ
All Countries

State ⓘ
All States

County ⓘ
All Counties

Point Location ⓘ
Within

miles of
Latitude

0

Longitude

0

Use my location

Bounding Box ⓘ
North:

90

South:

-90

East:

180

West:

-180

Site Type ⓘ
All Site Types

Organization ID ⓘ
All Organization IDs

Site ID ⓘ
All Site IDs

HUC ⓘ
All HUCs

Figure 2 Location Parameters section of WQP Advanced Search page

Most of the fields are self-explanatory, but some additional information would be helpful for the others.

Organization ID: WSS has multiple Organization IDs (OrgID’s) for WQX, and selecting the correct one will help you narrow down results to the time period and program of interest. Table 1 describes the different OrgIDs associated with AMS and RAMS data and the applicable date range for each program. If you’re specifically interested in AMS and RAMS data, it’s highly recommended that you enter one or more of these OrgID’s OR select specific monitoring site IDs (see next section). The WQP contains data from many different organizations so the dataset returned can be very large if you don’t filter your search.

Table 1 OrgIDs and OrgNames used 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 nd)	1997-2007	Ambient Monitoring System (AMS)	NCAMBNT
21NC03WQ	North Carolina Department of Environmental Resources NCDENR-DWQ WQX	2007-current	Ambient Monitoring System (AMS)	NCAMBNT
			Random Ambient Monitoring System (RAMS)	NCRNDM

If you want to include Site ID(s) in your search, **do not enter an Organization ID**. Entering an Organization ID will disable entry of search criteria into the Site ID box.

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Site ID: If you have a relatively small number of specific monitoring stations that you’re interested in and you know the AMS/RAMS station codes, you can enter them here. Station codes for AMS and RAMS monitoring sites 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 within the river basin). To find individual AMS/RAMS stations in WQX, you’ll need to include the OrgID. For example, “21NC03WQ-B0750000” is the correct Site ID for AMS/RAMS station B0750000 for data collected since 2007.

You can enter the full Site ID (OrgID + “-” + AMS/RAMS station number) directly into the Site ID search box. You can also search for a Site ID by clicking in the box and typing. A list of matches will be shown as you type but be aware of the OrgID when making your selection. You can enter multiple sites by clicking in the Site ID search box again and repeating the search process.

You can find locations of all current and historic AMS and RAMS sites by using the [NCDEQ DWR Resources Locator Map](#), available through NCDEQ’s ArcGIS online portal.

HUC: Hydrologic Unit Codes (HUC) are standardized watershed and subwatershed boundaries for the US and include six levels of nested watersheds. They are identified using 2-digit codes for the largest basins down to 12-digit codes for the smallest subwatersheds/catchments. You can enter any level of HUC here. Multiple HUCs may be entered by separating them by a semicolon.

See the [Resources](#) section at the end of this document for more information on HUCs.

Enter Additional Information to Filter Results

The second section (Filter Results) allows you to further refine your search (Figure 3).

Filter Results

Specify data source, date range, and sampling filters to apply to the desired dataset. All fields are optional.

Sample Media ⓘ All Sample Media	Parameter Code(NWIS ONLY) ⓘ All Parameter Codes	Date Range ⓘ Dates should be entered as mm-dd-yyyy from: mm-dd-yyyy
Characteristic Group ⓘ All Characteristic Groups	Biological Parameters Assemblage ⓘ All Assemblages	to: mm-dd-yyyy
Characteristics ⓘ All Characteristics	Taxonomic Name ⓘ All Taxonomic Names	Minimum Sampling Activities Per Site ⓘ 1
Project ID ⓘ All Project IDs		Minimum Results Per Site ⓘ 1

Figure 3 Filter Results section of WQP Advanced Search page

The more commonly used fields are described below.

Characteristics: This is the term that WQX uses for individual parameters or analytes. WQX maintains a list of acceptable, standardized Characteristic names. There are many thousands of them and some of the acceptable names have changed over time. Commonly used Characteristics and the appropriate search terms to use in WQP are provided in [Appendix 1: WQX Characteristic Names](#) at the end of this document.

Characteristic Group: This can be a tempting option if you are looking for a specific group of analytes, such as nutrients or metals. However, these groupings in WQX are not always accurate or complete, so be thoughtful with using this and make sure it's returning all of your analytes of interest. As with other fields on the Advanced search tab, you can scroll through a provided list, enter search terms directly, and select more than one group.

Project ID: It can be very helpful to narrow your search to specific project(s). For the long-term Ambient Monitoring System (AMS), use **NCAMBNT**. For the probabilistic Random Ambient Monitoring System (RAMS), use **NCRNDM**. You can enter more than one project ID.

Date Range: Enter a start and end date in the format mm-dd-yyyy. Remember that the OrgID(s) you select will also limit the time periods available for your search.

Download the Data

The final section of the page (Download the Data) requires you to specify exactly what you would like to download (Figure 4).

Download the Data

Data Source

☐ NWIS (USGS)

☒ WQX (EPA)

File Format

☒ Comma-Separated

☐ Tab-Separated

☐ MS Excel 2007+

Data Profiles

☐ Organization Data

☐ Site Data Only

☐ Project Data

☐ Project Monitoring Location Weighting Data

☒ Sample Results (physical/chemical metadata)

☐ Sample Results (biological metadata)

☐ Sample Results (narrow)

☐ Sampling Activity

☐ Sampling Activity Metrics

☐ Result Detection Quantitation Limit Data

☐ Biological Habitat Metrics

Figure 4 Download the Data section of WQP Advanced Search page

Data Source: If you specified an OrgID or ProjectID, you don't have to worry about selecting a source. If you did not, you may want to uncheck USGS just to limit the size of the dataset to be returned.

File Format: Select an appropriate file type. Comma-Separated and Tab-Separated are often the most flexible options (particularly for large datasets).

Data Profiles: For AMS and RAMS results, there are two options:

- Sample Results (physical/chemical metadata): Provides the most information (metadata) about each individual result.
- Sample Results (narrow): Provides minimal information (metadata) about each individual result, but will be a smaller, easier to manage file.

No matter which you select, all results will be provided in a “stacked” format, where each record is a single result and the metadata about that result.

After finishing your selections, scroll down to the bottom of the page (Figure 5). There are four boxes that have some code in them, and that code was built dynamically as you entered criteria in the search boxes on the Advanced search tab. If you want to document exactly how you did your data retrieval, copy the text in the Query URL box and paste it in your project notes as a reference. You can automatically repeat the retrieval by copying and pasting that URL into your browser's address bar.

Click the Download button at the bottom of the page. You will then see a pop-up window with the Download Status, though it may take several minutes for it to appear for larger retrievals. The pop-up summarizes the number of results that will be returned and gives you a chance to cancel if it wasn't what you were expecting. If all looks good, click the Continue button to download the file to your browser's default download location. This may take just 1-2 minutes for small datasets or can take a very long time (30 minutes or more) for very large datasets.

The screenshot shows the 'Query URL' section with the following text: `https://www.waterqualitydata.us/#siteid=21NC03WQ-B0750000&huc=030300*&mimeType=csv&dataProfile=resultPhysChem&providers=STORET`

The 'Result' section shows the following text: `https://www.waterqualitydata.us/data/Result/search?siteid=21NC03WQ-B0750000&huc=030300*&mimeType=csv&zip=yes&dataProfile=resultPhysChem&providers=STORET`

The 'cURL' section shows the following text: `curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/zip' -d '{"siteid":["21NC03WQ-B0750000"],"huc":["030300*"],"dataProfile":"resultPhysChem","providers":["STORET"]}' 'https://www.waterqualitydata.us/data/Result/search?mimeType=csv&zip=yes'`

The 'WFS GetFeature' section shows the following text: `https://www.waterqualitydata.us/ogcservices/wfs/?request=GetFeature&service=wfs&version=2.0.0&typeName=wqp_sites&SEARCHPARAMS=siteid%3A21NC03WQ-B0750000%3Bhuc%3A030300*%3Bproviders%3ASTORET&outputFormat=application%2Fjson`

At the bottom, there are two buttons: 'Clear search' and 'Download'. The 'Download' button is highlighted with a red box, and a red arrow points to it from the right.

Figure 5 Completing your request from the WQP

Downloading Monitoring Station Information

The monitoring station information (metadata) that will be provided in your downloaded result files will vary depending on the Data Profile you selected prior to download. If you need additional station metadata, you can do a separate data retrieval using the same criteria entered for the results search but select Site Data Only in the Data Profiles section. This will produce a separate file of monitoring station metadata for just the AMS/RAMS stations that have data included in your results download.

To help you determine which Data Profile format will have the station metadata that you need, the station metadata provided in each Data Profile download format is shown in Table 2.

Table 2 Station metadata provided by the different data download formats. Only fields that are populated for AMS and RAMS data are shown.

Column name in downloaded file	Description	WQP Download Data Profile		
		Sample Results (physical/ chemical metadata)	Sample Results (narrow)	Site Data Only
OrganizationIdentifier	Organization ID (OrgID)	X	X	X
OrganizationFormalName	Full name of organization collecting data	X	X	X
MonitoringLocationIdentifier	Site ID (OrgID-station)	X	X	X
MonitoringLocationName	Description of station location	X		X
MonitoringLocationTypeName	Waterbody type			X
HUCEightDigitCode	8-digit HUC			X
LatitudeMeasure	Station latitude (decimal degrees)	X		X
LongitudeMeasure	Station longitude (decimal degrees)	X		X
SourceMapScaleNumeric	Map scale if HorizontalCollectionMethodName is Interpolation-Map			X
HorizontalCollectionMethodName	Method used to determine lat/long			X
HorizontalCoordinateReferenceSystemDatumName	Geographic datum of source for determining lat/long			X
CountryCode	Country			X
StateCode	State FIPS code			X
CountyCode	County FIPS code			X

Resources

Water Quality Portal (WQP), Water Quality eXchange (WQX), How's My Waterway (HMW), and related tools

- WQP: <https://www.waterqualitydata.us/>
- WQP User Guide: https://www.waterqualitydata.us/portal_userguide/
- Applications using WQP API: https://www.waterqualitydata.us/apps_using_portal/
- How's My Waterway: <https://mywaterway.epa.gov/>
- USEPA's Water Quality Data website: <https://www.epa.gov/waterdata/water-quality-data>
- USEPA's Ambient Water Quality Tools: <https://www.epa.gov/waterdata/ambient-water-quality-tools>

NCDEQ DWR WSS - AMS and RAMS program information

- 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>
- Ecosystems Branch: <https://www.deq.nc.gov/about/divisions/water-resources/water-sciences/ecosystems-branch>
- Resources Locator Map: <https://experience.arcgis.com/experience/689283d17bf342c2a96364fbab09a5d8>

HUCs

Hydrologic Unit Codes (HUCs) are a federally standardized set of watershed and subwatershed boundaries for the U.S.

- <https://www.usgs.gov/faqs/how-can-i-find-huc-hydrologic-unit-code-stream-how-can-i-find-namelocation-stream-using-huc>
- <https://www.usgs.gov/national-hydrography/watershed-boundary-dataset>

FIPS codes (states and counties)

Federal Information Processing Standard (FIPS) codes are federally standardized codes used to uniquely identify U.S. states and counties and are reported in data downloads from the WQP. States are identified using a 2-digit code and counties by a 3-digit code (including leading zeroes, as needed).

- <https://www.lib.ncsu.edu/gis/countyfips>

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 Color, ADMI at natural pH 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 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 Ammonia-nitrogen
Nutrients	Nitrite + nitrate	Nitrate + Nitrite 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	Benz[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