

# WQDE Status

NJ Water Monitoring  
Council

May 25, 2011

Presented by: Paul Morton, NJDEP/WM&S

# Data Solicitation Options



WQX Web



WQDE



CDX

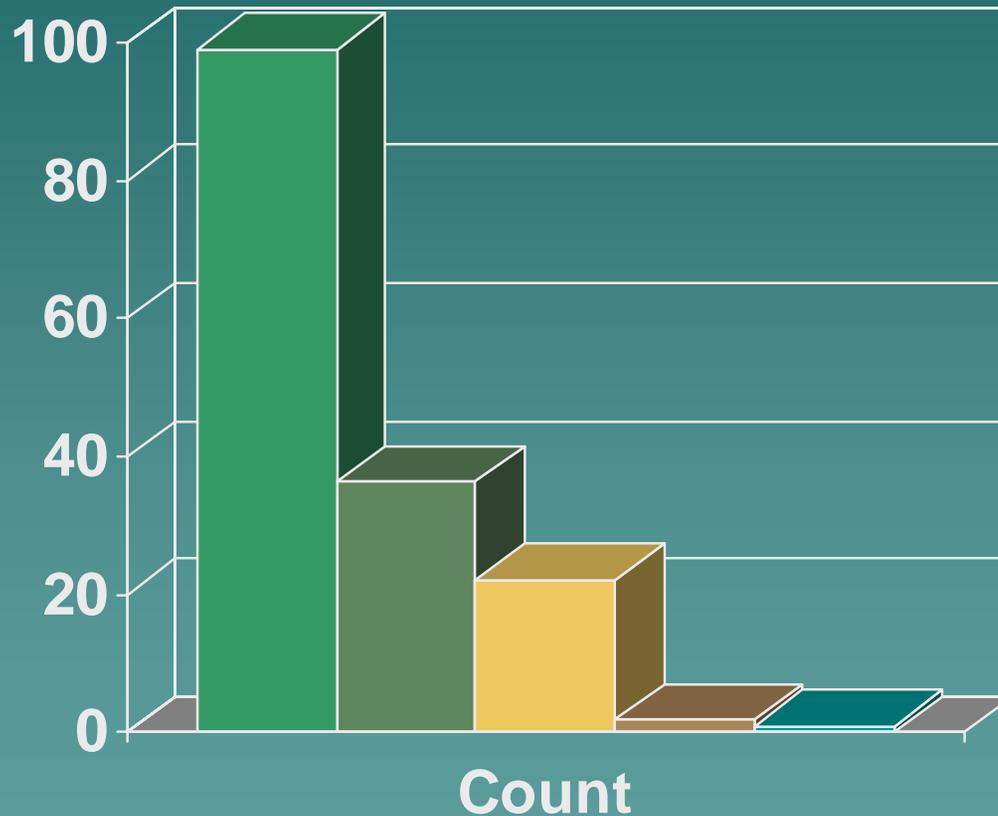


AWQMS



NWIS

# 161K Results Added to WQDE



- NJ Harbor Dischargers Group
- NJDEP Bureau of Freshwater & Biological Monitoring
- Brick Township MUA
- Americorps
- Monmouth County Health Department

# New WQDE Website

NJDEP Water Monitoring & Standards - Windows Internet Explorer

http://www.state.nj.us/dep/wms/wqde/

## Getting started with WQDE

### PHASE ONE: DATA ENTRY

WQDE is accessed through the "NJDEP Online Business Portal" via the "myNewJersey" portal at [www.nj.gov](http://www.nj.gov). You must have a "myNewJersey" portal account to directly access NJDEP's online services. If you do not have an account, you will be able to create one at no cost during the registration process the first time you enter NJDEP Online.

**Step One: Request Access to NJDEP Online**

1. Go to "<http://www.njdeponline.com> and click on the button "NJDEP Online New User INSTRUCTION"
2. Read the instructions and follow the procedure to request access to NJDEP Online. (NOTE: You do not need to request a PIN to use WQDE)
3. When you get to the step to select services, scroll down the page and click the box next to "Water Quality Data Exchange"

**Step Two: Access E2**

1. Go to [www.nj.gov/dep](http://www.nj.gov/dep), scroll down to "Information Tools", and click on "DEP Online"

or Go to NJDEP Online directly at [www.njdeponline.com](http://www.njdeponline.com)

2. Click on the "Log in to DEP Online" on the right side of the page. You will be transferred to the "myNew Jersey" login page.
3. Enter your Log On ID and Password and click on the "Log On" button. You will be brought to the "My Workspace - My Services" tab.
4. Click the "Water Quality Data Exchange" link and wait until the next screen loads; this screen will forward you to the Electronic Environmental (E2) Reporting System

**Step Four: Submit/Access Data**

Once you are in the Electronic Environmental (E2) Reporting System, you may create accounts and submit and review data.

- [Frequently Asked Questions \(FAQs\)](#)
- [User Manual for entering data into the system](#)
- [WQDE Data Dictionary](#)

### PHASE TWO: DATA RETRIEVAL AND REPORTS

Water quality data submitted to WQDE can be viewed on-screen via [NJDEP Data Miner](#). Monitoring locations can be viewed via NJEP's Web based mapping solution, [NJGeoWeb](#). Data from WQDE is sent to [USEPA's STORET Data Warehouse](#), which can be used to download data in a text based file format.

## Technical Support

Technical assistance in using WQDE is available from the Department. If assistance is still needed after a thorough review of the online guide, fact sheet, and FAQs, data submitters may contact the Department staff identified below:

Type of Support/ Program	Contact Person	Email address	Telephone number
WQDE Technical Assistance	Paul Morton	<a href="mailto:Paul.Morton@dep.state.nj.us">Paul.Morton@dep.state.nj.us</a>	(609) 292-1623
VM (Volunteer Monitoring)	Danielle Donkersloot	<a href="mailto:Danielle.Donkersloot@dep.state.nj.us">Danielle.Donkersloot@dep.state.nj.us</a>	(609) 633-9241
Integrated Report/303(d)List	Kevin Berry	<a href="mailto:Kevin.Berry@dep.state.nj.us">Kevin.Berry@dep.state.nj.us</a>	609) 633-7017
NJ Water Monitoring Council	Alena Baldwin-Brown	<a href="mailto:Alena.Baldwin-Brown@dep.state.nj.us">Alena.Baldwin-Brown@dep.state.nj.us</a>	(609) 292-1623
TMDL Studies	Trish Ingelido	<a href="mailto:Patricia.Ingelido@dep.state.nj.us">Patricia.Ingelido@dep.state.nj.us</a>	(609) 633-1441
NJPDES Permit-related Studies	Jason Lonardo	<a href="mailto:Jason.Lonardo@dep.state.nj.us">Jason.Lonardo@dep.state.nj.us</a>	(609) 292-4860
Office of Science's Fish Tissue Data	Terri Tucker	<a href="mailto:Terri.Tucker@dep.state.nj.us">Terri.Tucker@dep.state.nj.us</a>	(609) 633-3856

For additional information about WQDE, please contact [Paul Morton](#) at Water Monitoring and Standards, (609) 292-1623.

# New DEP Data Miner Reports

NJDEP-OPRA category base - Windows Internet Explorer

http://datamine2.state.nj.us/DEP\_OPRA/OpraMain/categories?category=Ambient+Water+Quality

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OPRA | New Jersey Open Public Records Act

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dep Data Miner

site search reports by category reports search help

## Ambient Water Quality

- [WQDE Chemical Results by Characteristics and Date Range](#)  
Pick one or more characteristics and supply a date range. The system will return chemical results from NJDEP's ambient Water Quality Data Exchange (WQDE) system
- [WQDE Chemical Results by Characteristics, Date Range and HUC11](#)  
This Data Miner report enables the user to search the Water Quality Data Exchange (WQDE) system by user selected Characteristic names, beginning and end dates and the 11-digit Hydrologic Unit Code (HUC). The report returns ambient water quality monitoring locations including the Organization that conducted the monitoring, the location of the monitoring, how the sample was collected, how the sample was analyzed and the sample results.
- [WQDE Chemical Results by Characteristics, Date Range and HUC14](#)  
The Data Miner enables the user to search the Water Quality Data Exchange (WQDE) system by user selected Characteristic names, beginning and end dates and the 14-digit Hydrologic Unit Code (HUC). The report returns ambient water quality monitoring locations including the Organization that conducted the monitoring, the location of the monitoring, how the sample was collected, how the sample was analyzed and the sample results.
- [WQDE Chemical Results by HUC14 and Date Range](#)  
This Data Miner report enables the user to search the Water Quality Data Exchange (WQDE) system by user selected beginning and end dates and the 14-digit Hydrologic Unit Code (HUC). The report returns ambient water quality monitoring locations including the Organization that conducted the monitoring, the location of the monitoring, how the sample was collected, how the sample was analyzed and the sample results.
- [WQDE Chemical Results by Organization and Date Range](#)  
This Data Miner report enables the user to search the Water Quality Data Exchange (WQDE) system by user selected Organization Identifier and beginning and end dates. The report returns ambient water quality monitoring locations including the Organization that conducted the monitoring, the location of the monitoring, how the sample was collected, how the sample was analyzed and the sample results.
- [WQDE Chemical Results by Submission ID](#)  
Search for chemical results by the submission ID generated by the system at the time the data was uploaded to WQDE
- [WQDE Chemical Results by Subwatershed Name and Date Range](#)  
This Data Miner report enables the user to search the Water Quality Data Exchange (WQDE) system by user selected Sub-Watershed names and beginning and end dates. The report returns ambient water quality monitoring locations including the Organization that conducted the monitoring, the location of the monitoring, how the sample was collected, how the sample was analyzed and the sample results.

# Select Characteristics

NJDEP-OPRA prompt base - Windows Internet Explorer

http://datamine2.state.nj.us/DEP\_OPRA/OpraMain/get\_long\_report?

BusinessObjects InfoView NJ-GeoWeb on Turtle01 La... NJDEP-OPRA prompt base X

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OPRA | New Jersey Open Public Records Act

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### WQDE Chemical Results by Characteristics and Date Range

Earliest Date	<input type="text" value="01/01/2010"/>
Latest Date	<input type="text" value="12/31/2010"/>

Select one or More Characteristics  
(Press Ctrl-C to select multiple Characteristics)

- LU - Stormwater Basin
- LU - Swimming / Fishing / Canoeing / Boating
- LU - Waterfowl (approx. #)
- LU - Wetlands
- Lead**
- Life stage (choice list)

OK CANCEL

Please be advised that the broader the search criteria, the longer the retrieval time.

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Department of Environmental Protection

# See Results

NJDEP-OPRA report base page - Windows Internet Explorer

http://datamine2.state.nj.us/DEP\_OPRA/OpraMain/get\_long\_report?

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OPRA | New Jersey Open Public Records Act

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### WQDE Chemical Results by Characteristics and Date Range

Run At: 05/25/11 08:57 AM

Organization Identifier	Project Identifier	Monitoring Location Identifier	Activity Start Date	Activity Identifier	Activity Type Code	Activity Media Name	Sample Collection Method Identifier	Sample Collection Method Identifier Context	Sample Collection Method Name	Sample Collection Equipment Name	Characteristic Name	Result Sample Fraction Text	Result Measure Value	Result Measure Unit	Result Measure Qualifier Code
BTMUA	Watershed	NA	1/3/2010	NA_100103s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.08	ug/l	F
BTMUA	Watershed	NA	1/5/2010	NA_100105s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	0.82	ug/l	F
BTMUA	Watershed	NA	1/7/2010	NA_100107s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.21	ug/l	F
BTMUA	Watershed	NA	1/10/2010	NA_100110s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	3.19	ug/l	F
BTMUA	Watershed	NA	1/12/2010	NA_100112s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.91	ug/l	F
BTMUA	Watershed	NA	1/14/2010	NA_100114s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	0.48	ug/l	F
BTMUA	Watershed	NA	1/17/2010	NA_100117s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	0.84	ug/l	F
BTMUA	Watershed	NA	1/19/2010	NA_100119s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.6	ug/l	F
BTMUA	Watershed	NA	1/21/2010	NA_100121s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.11	ug/l	F
BTMUA	Watershed	NA	1/24/2010	NA_100124s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.17	ug/l	F
BTMUA	Watershed	NA	1/26/2010	NA_100126s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.9	ug/l	F
BTMUA	Watershed	NA	1/28/2010	NA_100128s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.17	ug/l	F
BTMUA	Watershed	NA	1/31/2010	NA_100131s	Sample-Routine	Water	See QA Plan	NJDEP	See Project QA Plan	Miscellaneous (Other)	Lead	Total	1.41	ug/l	F

# Coming NJ-GeoWeb Search

NJ-GeoWeb Map Viewer - Windows Internet Explorer

http://turtle01.cit.state.nj.us/NJGeoWeb/WebPages/Map/MapView.aspx?THEME=NJDEP&UH=True&RIC

File Edit View Favorites Tools Help

NJ-GeoWeb Map Viewer

**NJ-GeoWeb** new jersey njdep department of environmental protection

reports help data descriptions

Welcome AWM

Map Search

Ambient\_Water\_Monitoring GeoWeb

Map Tools

NORTH

SUSSEX PASSAIC WARREN MORRIS BERGEN ESSEX HUDSON SOMERSET UNION MIDDLESEX HUNTERDON MERCER MONMOUTH BURLINGTON OCEAN CAMDEN GLOUCESTER SALEM ATLANTIC CUMBERLAND CAPE MAY

New York Connecticut Pennsylvania Delaware Maryland

Scale 1: 2,330,999.00

Easting (X) : 0 , Northing (Y) : 0

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Layer Manager

Note: To view additional layers, click the '+' sign  
For more functionality, Right Click on the layer's name.

- Environmental Data
  - Sites and Facilities
  - Water Monitoring
    - NJ WQDE Water Quality Monitoring
    - NJ STORET Water Quality Monitoring
    - EPA STORET Water Quality Monitoring
    - USGS NWIS Water Quality Monitoring
    - Volunteer Water Monitoring
    - Ambient Biomonitoring Network (AMNET)
    - Fish Index of Biotic Integrity
    - Shellfish Classification
  - Land
  - Planning Areas
  - Water
  - Base Layers

Apply

Done

Internet 100%

# Select Area in NJ-GeoWeb

NJ-GeoWeb Search - Windows Internet Explorer

http://turtle01.oit.state.nj.us/NJGeoWeb/WebPages/Map/MapView.aspx?THEME=NJDE

NJ-GeoWeb Search

**NJ-GeoWeb** new jersey njdep department of environmental protection

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Welcome AWM

Map Search

Address Search County Municipality Place ZIP Code WQDE Stations in an Area of Interest All Searches

**WQDE Stations in an Area of Interest**

Select NJ Water Quality Data Exchange Monitoring Stations help

Within a:

Watershed/Sub-watershed

Watershed Management Area Name Barnegat Bay

Watershed Name All

Sub-watershed Name All

Search Reset

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# See Stations

The screenshot displays the NJ-GeoWeb Map Viewer interface within a Windows Internet Explorer browser. The browser's address bar shows the URL: <http://turtle01.oit.state.nj.us/NJGeoWeb/WebPages/Map/MapView.aspx?THEME=NJDEP&LH=True&RIDZ=634419095512983762#>. The page header includes the NJ-GeoWeb logo and the New Jersey Department of Environmental Protection name, along with navigation links for reports, help, and data descriptions. A "Welcome AWM" message is visible in the top right corner.

The main map area shows a geographic region with numerous green square markers representing monitoring stations. The map includes a scale of 1:195,324.24 and coordinates (Easting: 627,228; Northing: 316,862). The map is titled "Ambient\_Water\_Monitoring" and "GeoWeb".

On the right side, the "Layer Manager" panel is open, displaying a tree view of layers under "Environmental Data". The "Water Monitoring" section is expanded, showing several sub-layers, with "NJ WQDE Water Quality Monitoring" checked. Other layers include "NJ STORE Water Quality Monitoring", "EPA STORE Water Quality Monitoring", "USGS NWIS Water Quality Monitoring", "Volunteer Water Monitoring", "Ambient Biomonitoring Network (AMNET)", "Fish Index of Biotic Integrity", and "Shellfish Classification". The "Land", "Planning Areas", "Water", and "Base Layers" sections are also visible.

Below the Layer Manager, the "Selection List" panel is open, showing a list of 40 monitoring stations under the heading "NJ WQDE Water Quality Monitoring". Each station is listed with a checkmark, a station ID, and a location description. The list includes:

- 21 NJDEP\_BMWM - 1809 - 1809 - Estuary
- 22 NJDEP\_BMWM - 1806C - 1806C - Estuary
- 23 NJPC - WWERAILR - Westecunk Creek at Railroad Avenue - River/Stream
- 24 NJDEP\_BB - 01409281 - Westecunk Ck at Railroad Ave at West Ck - Estuary
- 25 NJDEP\_BMWM - 1708B - 1708B - Estuary
- 26 NJDEP\_BMWM - C53B - C53B - Ocean
- 27 NJDEP\_BMWM - 1707C - 1707C - Estuary
- 28 NJDEP\_BMWM - NJ00-0043 - NJ00-0043 - Estuary
- 29 NJDEP\_BMWM - 1705E - 1705E - Estuary
- 30 NJDEP\_BMWM - 1687B - 1687B - Estuary
- 31 NJDEP\_BMWM - 1688A - 1688A - Estuary
- 32 NJDEP\_BMWM - 1688 - 1688 - Estuary
- 33 NJDEP\_BMWM - 1690B - 1690B - Estuary
- 34 NJDEP\_BMWM - 1690 - 1690 - Estuary
- 35 NJDEP\_BMWM - A63B - A63B - Ocean
- 36 NJDEP\_BMWM - 1648B - 1648B - Estuary
- 37 NJDEP\_BMWM - 1691A - 1691A - Estuary
- 38 NJDEP\_BMWM - 1691B - 1691B - Estuary
- 39 NJDEP\_BFBM - AN0559A - TUCKERTON CREEK AT POOR MANS PARKWAY - River/Stream
- 40 NJPC - WMPOORM - Mill Branch at Poor Mans Parkway - River/Stream

At the bottom of the Selection List, there are navigation controls (1, 2, 3, 4, 5, 6, 7, 8, 9, 10) and a "Total: 200 items" indicator.

In the bottom left corner, the "Reports" panel is open, showing a "Select Reports" dropdown menu with options: Report (CSV), Report (HTML), Report (PDF), Report (XML), WQDE Biological Results, WQDE Chemical Results, WQDE Continuous Data Results, WQDE Habitat Results, and WQDE Monitoring Locations. A "View" button is next to the dropdown.

# See Results

The screenshot displays a web browser window titled "BusinessObjects InfoView - Windows Internet Explorer". The address bar shows the URL: <http://dep-bo.dep.state.nj.us:8080/InfoViewApp/listing/main.do?appKind=>. The browser tabs include "BusinessObj...", "NJ-GeoWeb on ...", and "NJDEP-OPRA re...".

The main content area is titled "BUSINESSOBJECTS INFOVIEW" and features the Business Objects logo (an SAP company). The navigation menu includes "Home", "Document List", "Open", "Send To", "Help", "Preferences", "About", and "Log Out".

The report title is "WQDE Chemical Results". The report toolbar includes "Edit Query", "Edit Report", "Refresh Data", "Track", "Drill", and other icons. A "Data" sidebar is visible on the left.

The report content is a table titled "WQDE Chemical Results" with the following data:

Location	Date	Media	Characteristic	Form	Units	Result	Qualifier	Comment
01367625	5/20/2009	Water	Escherichia coli		#/100ml	70		
01367625	5/27/2009	Water	Escherichia coli		#/100ml	60		
01367625	6/3/2009	Water	Escherichia coli		#/100ml	510		
01367625	5/19/2010	Water	Escherichia coli		#/100ml	280		
01367693	2/8/2010	Water	Calcium		mg/l	14.0		
01367693	2/8/2010	Water	Kjeldahl nitrogen		mg/l	0.195		
01367693	2/8/2010	Water	Magnesium		mg/l	4.54		
01367693	2/8/2010	Water	Nitrogen, ammonia as N		mg/l	0.0187		
01367693	2/8/2010	Water	Organic carbon		mg/l	3.03		
01367693	2/8/2010	Water	Orthophosphate		mg/l	0.00330	J	
01367693	2/8/2010	Water	Phosphorus		mg/l	0.0339	J	
01367693	2/8/2010	Water	Potassium		mg/l	0.716		
01367693	2/8/2010	Water	Sodium		mg/l	27.7		

At the bottom of the report area, it says "Report 1". The status bar at the bottom of the browser window indicates "Last Refresh Date: December 2, 2010 3:33:41 PM GMT-05:00" and a warning icon for "Partial results".