

Lab Data Submittal 2.0 (+ CMDP)



Web Application

User Manual

(Abridged Version for Non-Certified Users)

NC DEQ

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Contents

Glossary.....	3
1. Introduction.....	4
1.1. Overview	4
1.2. Software Capabilities	4
1.3. Work Flow	4
2. Using LDS	5
2.1. Logging In	5
2.2. Entering Chemicals.....	6
2.2.1. Main View - Chemicals	6
2.2.2. Entering Individual Chemical Result.....	8
2.2.3. Entering Chemical Batch.....	13
3. Submitting Sampling Results.....	16
3.1. Uploading Sample Files to CMDP.....	16
3.2. Reviewing, Certifying, and Submitting Samples in CMDP	18
4. Generating Reports.....	28
Appendices.....	29
Appendix 1 - Sample Status	29
Appendix 2 – Contaminant Groups.....	30
Appendix 3 - Miscellaneous Tips and Getting Help	33
To enable pop-ups:	33
Printing:.....	34
Deleting Samples:	35
Frequently Asked Questions:	35
Getting Help:	36
Appendix 4 - System Requirements.....	37
Appendix 5 – New Reporting Fields on Distribution System Samples.....	38
Appendix 6 – Updates	39

Table of Figures

Figure 1. Login Screen	5
Figure 2. Certified Contaminant Groups	5
Figure 14. Main View – Chemicals	6
Figure 15. Chemical Entry Point Screen (<i>Asbestos, Bromate/Bromide, ClO₂/Chlorite, Dioxin, Lead and Copper, Nitrate/Nitrite, TOC, VOCs, WQPs</i>)	9
Figure 16. Chemical Distribution Screen (<i>Asbestos, ClO₂/Chlorite, Lead and Copper, TTHM/HAA5</i>)	10
Figure 17. Inorganics, SOCs, THMs/HAA5s, and Radionuclides Entry Screen.....	11
Figure 18. Analysis Dates and Times for Different Methods	12
Figure 19. Entering Analytical Measurement	12
Figure 20. Chemical Analysis in Ready Status in Main View	13
Figure 21. Add New Chemical Batch Screen	13
Figure 22. Select/Edit Chemical Batch Screen	15
Figure 23. Upload Icons in LDS - Upload Selected or Upload All RDY	16
Figure 24. Create and Upload XML File to CMDP	16
Figure 25. Agree to Upload File to CMDP and to Login to CMDP to Review and Certify the File.....	17
Figure 26. Pop-up Notification of File Successfully Submitted to CMDP	17
Figure 27. Use “Go To CMDP” Icon to open the CMDP login screen.....	17
Figure 28. Login to CMDP using your SCS Username and Password	18
Figure 29. View Drinking Water Sample Jobs	18
Figure 30. Checking the Validation Tab for XML File Errors.....	19
Figure 31. Reviewing Error Descriptions.....	19
Figure 32. Removing Job Files from CMDP	20
Figure 33. Certifying and Submitting Step 1: Send File to Reviewer	20
Figure 34. Submitting the File to Reviewer.....	21
Figure 35. Notification of Job Successfully Submitted for Review.....	21
Figure 36. How to Verify that the Job has been sent to the Reviewer	21
Figure 37. How to Review Sample Results.....	22
Figure 38. Sample Information View	22
Figure 39. Certifying and Submitting Step 2: Send File to Certifier	23
Figure 40. Submitting the File for Certification.....	23
Figure 41. Notification of Job Successfully Submitted to Certifier	23
Figure 42. How to Verify that the Job has been sent to the Certifier.....	24
Figure 43. Certifying and Submitting Step 3: Certify and Submit to the State	24
Figure 44. Certifying and Submitting to the State by Answering Security Questions	25
Figure 45. Download Sample XML Table	25
Figure 46. Notification of Job Successfully Submitted to the State	25
Figure 47. Verifying Status of the Sample Changed to Submitted.....	26
Figure 48. Verifying Status of the Sample Changed to Accepted by State	26
Figure 49. Removing a Sample from a Job File	27
Figure 50. My Reports Option.....	28
Figure 51. Reports Screen	28

Glossary

- Analysis** – For the purposes of this manual, analytical information added to the sample (see “Sample” definition below); corresponds to the fields encountered on state laboratory forms below the “double line”. Note that Sample (see **Sample** below) and Analysis are split into different screens in the Bacti/GWR module and are on the same screen for chemicals.
- Batch** – A set of sampling results that can be processed by the software at the same time.
- CMDP** – Compliance Monitoring Data Portal. An application created by the federal Environmental Protection Agency (EPA) to facilitate electronic reporting to the State.
- CROMERR** – Cross-Media Electronic Reporting Rule **Drinking Water Watch** – A website, available to the public, for viewing drinking water information; obtains data directly from the State database, SDWIS. URL: <https://www.pwss.enr.state.nc.us/NCDWW2/>
- EPA** – Environmental Protection Agency.
- HPC** – Heterotrophic Plate Count (HPC) submission capabilities are included in the software for labs certified for HPC. HPC analysis can only be submitted as part of a Total Coliform (TC) sample and will be listed in SDWIS as a separate result under the TC sample’s lab log ID.
- Lab ID** – A five-digit identification code issued by the State to each certified laboratory.
- Lab Log ID** – A unique sample identification number; cannot be replicated by the same laboratory.
- LDS – Lab Data Submittal** – Web-based software provided by the PWS Section to certified laboratories to submit drinking water data to the State. URL: <https://pws.ncwater.org/LDS>
- LDS Database** – A database (separate from **SDWIS** – see below) that is hosted by the State to store data that has been entered and saved by laboratories using the LDS application.
- NCID** – North Carolina Identification System (NCID) - State service that handles login credentials to access State-run websites. Every laboratory must obtain a NCID business user ID and password and supply the user ID to the PWS Section in order to use LDS. URL: <https://ncid.nc.gov>
- PWS Section** – Public Water Supply Section.
- Sample** – For the purposes of this manual, information about the water system, sample type, facility type, and sample collection details; corresponds to the information fields on the State laboratory analysis form above the “double line.” Note that Sample and Analysis (see **Analysis** above) are split into different screens in the Bacti/GWR module and are on the same screen for chemicals.
- Sampling Result** – All information about the sample (see **Sample**) and analysis (see **Analysis**) required for submittal of a bacteriological result to the State. In the manual, this definition will be mainly used in reference to submissions using the Bacti/GWR module; for chemicals, Sample and Analysis are used throughout the text interchangeably. Note that Sample and Analysis are split into different screens in the Bacti/GWR module and are on the same screen for chemicals.
- Sampling Status Report** – A website that presents sampling information for the water system, including monitoring requirements and most recent sampling results. Obtains data directly from the State database, SDWIS. URL: <https://pws.ncwater.org/WSReports>
- SCS** – Shared CROMERR Services, - EPA’s service that handles login credentials to access the federally run website CMDP for sample upload and certification. URL: <https://encromerr.epa.gov/>
- SDWIS** – Safe Drinking Water Information System, state database of drinking water inventory, compliance, and enforcement data directly accessible to state personnel only.
- XML Reporting** – Extensible Markup Language (XML) – format for electronic reporting of compliance data to the State. The key element of this process is encoding compliance data in a machine-readable format.

1. Introduction

1.1. Overview

The Lab Data Submittal (LDS) web application was made available to laboratories to submit drinking water analyses to the State in August 2013. Initially, the software only provided the capability to report bacteriological and HPC analyses. The second edition of LDS extended the capability to report all the other required drinking water contaminant analyses to the State and was released in December 2014. The most recent edition of LDS was updated to upload sample data to EPA's CMDP application and was released in January 2018.

The purpose of this manual is to describe the main features of the LDS software, its interaction with CMDP and the State database (SDWIS), as well as, data entry and submission details.

1.2. Software Capabilities

The LDS software is designed to allow State-certified laboratories to enter, store, and submit their compliance and non-compliance analyses of drinking water samples, both individually and in batches, to the State. It also allows review of submissions, correction of rejected records, and generation of laboratory reports.

LDS accepts analytical data for compliance with the North Carolina Safe Drinking Water Act. The web interface is connected to [SDWIS](#), which makes it possible to either select or automatically populate water system (WS)-specific choices, such as WS No., WS name, facility ID, sample point, and previous sample information with real time data from the State database. Note that LDS will only display the water systems, facilities, sample points, etc. that are currently active in SDWIS.

! **Contact the PWS Section for any updates to the SDWIS inventory that need to take place in order for data to be entered or submitted.**

1.3. Work Flow

Below are the steps required to successfully enter and submit sampling data to the State. Each step mentioned here will be described in more detail in subsequent sections.

- Entering batch information (if applicable);
- Entering sample and analysis information;
- Uploading sample information to CMDP;
- Submitting and certifying sample file in CMDP;
- Correcting submission errors (if applicable).

2. Using LDS

2.1. Logging In



Figure 1. Login Screen

You can connect to the LDS website by using the following address: <https://pws.ncwater.org/LDS>

Once connected to this URL, you will be presented with a screen as shown in Figure 1, where you must use your user ID and password (obtained from [NCID](#) and registered with the PWS Section) in order to login.

! Before connecting to LDS, please make sure that pop-ups in your browser are unblocked for the LDS page (<https://pws.ncwater.org/LDS/pages/samples.aspx>). See Appendix 3 [“To enable pop-ups.”](#)

After logging in, the next screen will display modules for each of the contaminant groups for which your laboratory is currently allowed to submit sample data. To proceed to your intended contaminant group, select the corresponding group module:



Figure 2. Certified Contaminant Groups

2.2. Entering Chemicals

2.2.1. Main View - Chemicals

After selecting a contaminant group from the screen depicted in Figure 2, the user is presented with the Main View screen, as seen in Figure 14 below.

Sel	Edit	Rep	Lab Log ID	Status	Facility	Samp Pt.	Samp Pt. Type	Sample Type	Water Sys Number	Water Sys Name	Loc	Collected On
<input type="checkbox"/>			NITRATE/NITRITE_EX	SUB	W01	KSI	EP	RT	NC0285525	FOOT HILLS MARKET & GRILL INC	KITCHEN SINK	10/09/17 08:00 AM
<input type="checkbox"/>			CMDP_TEST_NITRITE	SUB	P1D	E06	EP	RT	NC0392373	BAYLEAF MASTER	CARLYLE MANOR #7	09/20/17 10:00 AM
<input type="checkbox"/>			37724_170922_02074	SUB	P16	016	EP	RT	NC0392373	BAYLEAF MASTER	SWANS MILL #1 (SM1)	09/18/17 10:00 AM
<input type="checkbox"/>			37724_170922_02073	SUB	P15	015	EP	RT	NC0392373	BAYLEAF MASTER	SUTTON ESTATES (SE1)	09/18/17 09:45 AM
<input type="checkbox"/>			37724_170922_02072	SUB	P13	013	EP	RT	NC0392373	BAYLEAF MASTER	RAVENS CRK 1	09/18/17 09:30 AM
<input type="checkbox"/>			37724_170922_02071	SUB	P10	010	EP	RT	NC0392373	BAYLEAF MASTER	FORESTBROOK 1	09/18/17 09:00 AM
<input type="checkbox"/>			37724_170922_02070	SUB	P06	006	EP	RT	NC0392373	BAYLEAF MASTER	COACHMAN TR 1	09/18/17 08:45 AM
<input type="checkbox"/>			37724_170922_02069	SUB	P05	005	EP	RT	NC0392373	BAYLEAF MASTER	CG1 WELL HOUSE	09/18/17 08:30 AM
<input type="checkbox"/>			37724_170922_02068	SUB	P04	004	EP	RT	NC0392373	BAYLEAF MASTER	CARMEL FOREST 1	09/18/17 08:00 AM
<input type="checkbox"/>			37724_170922_02067	SUB	P03	003	EP	RT	NC0392373	BAYLEAF MASTER	BAYTREE #1	09/18/17 07:45 AM
<input type="checkbox"/>			37724_170922_02066	SUB	P02	002	EP	RT	NC0392373	BAYLEAF MASTER	ADAMS MTN 2	09/18/17 07:30 AM
<input type="checkbox"/>			37724_170922_02065	SUB	P01	001	EP	RT	NC0392373	BAYLEAF MASTER	ADAMS MTN 1 (AM1)	09/18/17 07:00 AM
<input type="checkbox"/>			007-3	SUB	WP1	123	EP	RT	NC0201010	BURLINGTON, CITY OF	ED THOMAS PLANT	08/15/17 11:00 AM

Figure 3. Main View – Chemicals

By default, Main View displays all of the samples in the working queue. Note that - unlike Bacti – sample and analysis are entered on the same screen for chemicals, which affects the layout of Main View.

Main View also contains search boxes and various action buttons to accomplish all of the data entry, retrieval, submission, review and printing tasks that are explained in detail throughout this manual.

The top row of buttons, see picture below, from left to right, contains the following:

- “Add Sample” – opens Sample Detail Screen, of which there are three types, depending on a chemical, see Figures [15](#), [16](#), and [17](#).
- “Add Batch” – opens Add New Chemical Batch Screen, see [Figure 21](#).
- “Edit Batch” – to begin entering sample information, followed by analysis information for batches, see Select/Edit Chemical Batch Screen, [Figure 22](#).
- “BULK Print All” – allows the user to print all entries in Ready (“RDY”) or Submitted (“SUB”) status displayed on the Main View Screen.
- “Print Selected” – prints all checked entries on the Main View Screen.
- “Delete Selected” – deletes all checked entries (does not apply to entries in “Accepted” status).
- “Upload Selected” – converts only selected samples into XML format and uploads file to CMDP (for expedited submission of positive, repeat, and triggered samples and uploading composite samples).
- “Upload All RDY” – converts all samples in RDY status into XML format and uploads the files to CMDP.
- “Go To CMDP” – opens a new tab in the browser with the CMDP login screen.
- “Contaminant Group” – clicking on the magnifying glass returns to the screen in Figure 2 to select a different contaminant group.
- “Hide samples already accepted to SDWIS” checkbox – when checked, displays all entries in statuses (see [Appendix 1](#)) other than “ACC”, for “accepted”, in Main View. Sampling results that have been accepted into SDWIS can be viewed by unchecking this box.
- “Auto Refresh” – when checked, updates status of records relative to their acceptance into [SDWIS](#).
- “My Reports” – generates a report of historical data in Excel format.
- “Download State Form” – prints a blank state form for your contaminant.

The next row, as seen below, contains search boxes [“Search By” (shown above with the available search categories) and “Search For” textbox], a “Clear” hyperlink (to clear “Search For” textbox), a “Refresh” button (to update status of a submitted sample result), “Help” to bring up this manual and “Logoff” button. The box between the “Refresh” button and “Logoff” will display page navigation buttons when more than one page of samples exists.



To use this sample search function, select the dropdown category you wish to “Search By”, then enter the applicable information/code in the “Search For” textbox and press your keyboard’s “Enter” key. For example, if you select Search By “Water System No.” you must enter the water system number into the “Search For” textbox. If you want to Search By “Status”, use one of the codes listed in Appendix 1 for Sample Status. To search by Facility, enter a Facility ID into the box. Your sample search results will be displayed on the Main View Screen.

Next row, immediately below the sample search criteria bar, contains action buttons and display fields (below the underlined column headings) for entries in the queue. Underlined column headings, when clicked, will sort the entries under the column (or select all rows in the case of the first button, “Selected”). For example, to sort entries by their status, click “Status” column heading. Sorting toggles between ascending and descending order upon each click of a selected heading.

Sel	Edit	Rep	Lab Log ID	Status	Facility	Samp Pt.	Samp Pt.	Sample	Water Sys	Water Sys Name	Loc	Collected On
						Type	Type	Type	Number			

The purpose of each action button is explained below:

- “Select” – use to select all rows for printing or deleting.
- “Edit” – enables editing of the selected sample information.
- “Rep” – use to view and edit system contact information; contents of this field automatically populate “Mail Results to” area on the State Laboratory Analysis Form.

At the bottom of the screen is the information bar, as seen below:

Total Samples: 19	User: NCIUsername	Sort: Date Updated - Descending	Selected: 0	Clear Selected
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It displays, from left to right, the number of entries in Main View, your name or organization, the field that Main View is currently sorted by and the sort type (Date updated, descending is the default), number of entries selected, and an option to clear selected entries.

2.2.2. Entering Individual Chemical Result

To begin entering a new sample, press “Add Sample” button in Main View, in the upper left corner. This will bring up the Sample Detail Screen, as shown below.

For all Chemicals, i.e. chemical groups of Inorganics, Lead and Copper, Nitrate/Nitrite, SOCs, THMs/HAA5s, TOC, VOCs, WQPs, Radionuclides, the general layout of the data entry screen is the same except that screens for chemicals that are or can be collected in the distribution system, such as Asbestos, Chlorine Dioxide/Chlorite, Lead and Copper, and THHM/HAA5 have additional fields. These additional fields are ““Location Code”, “Tap Location”, “Street Address”, and “City”. Check boxes are also included on distribution system sample lab forms for denoting whether or not the sample site is “owned or controlled by the water system”, or the sample site is “a daycare or K-12 school”. Inorganics, SOCs, THMs and HAA5s, and Radionuclides also have a button for entering different analysis dates and times for each laboratory method, see Figures 15 and 16 for entry point and distribution entry screens.

Figure 4. Chemical Entry Point Screen (Asbestos, Bromate/Bromide, ClO₂/Chlorite, Dioxin, Lead and Copper, Nitrate/Nitrite, TOC, VOCs, WQPs)

Begin by either entering or selecting a water system (WS) number into the “Water System No:” box.

Note: By clicking on the magnifying glass, you can search by WS number or WS name

Once the WS number is entered, “County” and “Name” fields are populated with information from SDWIS. The “Sample Type” field is defaulted to Routine, but if the water system wishes to submit a non-compliance sample, Non-compliance type is also available.

“Sample Point” and “Facility ID” fields will be populated with information from SDWIS for single-facility water systems. For water systems with multiple facilities, the “Sample Point” field will display –Select offering a dropdown menu with all current sample point choices. Once a sample point is selected, the “Facility ID” field will get populated automatically with the corresponding Facility ID and the “Location” field – with the corresponding location.

“Collected By”, “Date” and “Time” fields are to be manually populated with sample collection information.

Figure 5. Chemical Distribution Screen (Asbestos, ClO₂/Chlorite, Lead and Copper, TTHM/HAA5)

Distribution entry screen will appear when a distribution-type sample point is selected under “Sample Point”. This screen has additional fields, “Location Code”, “Tap Location”, “Street Address”, “City”, “Owned/Controlled by System”, and “Daycare or K-12 school”. The meaning of these fields is described in Appendix 6.

“Mail Results to” area displays contact information for the water system and is obtained from SDWIS by default. The lab, however, can update this information either on the Main Screen or on the sample detail screen.

“ID/Comments” box contains the following fields:

“Lab ID” – for the five-digit state-assigned laboratory ID;

“Log ID” – to hold a unique ID for each sample entered. This ID will be automatically created and supplied to this field when the sample is saved; during data entry, however, the field will display “-Pending-”.

“Comments” – a free-text field to enter any related comments.

Once collection date and analysis end dates are populated, the user is ready to proceed to entering analysis information.

For each contaminant group, the list of contaminant codes is displayed in the lower part of the screen.

The screenshot shows a web application interface for entering sample details. At the top, there is a navigation bar with 'INORGANICS' and buttons for 'Cancel' and 'Save and Close'. The main form includes fields for 'Water System Number' (set to 'NC'), 'Sample Type' (set to 'Routine (Compliance)'), 'Sample Point', and 'Facility ID No.'. A message box indicates that the Water System No. is invalid. Below the form are sections for 'Mail Results To' (with fields for name, address, phone, fax, and email) and 'ID/Comments' (with fields for Lab ID#, Log ID, and a comments area). The 'Analysis' section features a button labeled 'Click here to enter Analysis Dates per Method Code' and a 'Certified By' field. A table of contaminants is displayed below, with columns for Report, Contam Code, Contaminant, Method Code, Req Report Limit, Analysis Started, Analysis Ended, Not Detected, Quantified Results, and Allowable Limits. A large padlock icon is overlaid on the table, indicating that analysis is not yet available.

Report	Contam Code	Contaminant	Method Code	Req Report Limit	Analysis Started	Analysis Ended	Not Detected	Quantified Results	Allowable Limits
<input type="checkbox"/>	1805	ARSENIC	205.9	0.005 mg/L			<input type="checkbox"/>	mg/L	0.010 mg/L
<input type="checkbox"/>	1818	BARIUM	205.7	0.400 mg/L			<input type="checkbox"/>	mg/L	2 mg/L
<input type="checkbox"/>	1815	CAESIUM	205.7	0.001 mg/L			<input type="checkbox"/>	mg/L	0.005 mg/L
<input type="checkbox"/>	1820	CHROMIUM	205.7	0.020 mg/L			<input type="checkbox"/>	mg/L	0.1 mg/L
<input type="checkbox"/>	1824	CYANIDE	410034.0	0.050 mg/L			<input type="checkbox"/>	mg/L	0.2 mg/L
<input type="checkbox"/>	1825	FLUORIDE	205.7	0.005 mg/L			<input type="checkbox"/>	mg/L	0.010 mg/L
<input type="checkbox"/>	1828	IRON	205.7	0.300 mg/L			<input type="checkbox"/>	mg/L	0.3 mg/L
<input type="checkbox"/>	1832	MANGANESE	205.7	0.05 mg/L			<input type="checkbox"/>	mg/L	0.05 mg/L
<input type="checkbox"/>	1835	MERCURY	215.1	0.002 mg/L			<input type="checkbox"/>	mg/L	0.002 mg/L
<input type="checkbox"/>	1836	NICKEL	205.7	0.05 mg/L			<input type="checkbox"/>	mg/L	0.05 mg/L
<input type="checkbox"/>	1840	SELENIUM	205.9	0.05 mg/L			<input type="checkbox"/>	mg/L	0.05 mg/L
<input type="checkbox"/>	1862	SODIUM	205.7	0.05 mg/L			<input type="checkbox"/>	mg/L	0.05 mg/L
<input type="checkbox"/>	1865	SULFATE	4500504.1	0.05 mg/L			<input type="checkbox"/>	mg/L	250 mg/L
<input type="checkbox"/>	1874	ANTIMONY, TOTAL	205.9	0.005 mg/L			<input type="checkbox"/>	mg/L	0.005 mg/L
<input type="checkbox"/>	1875	BERYLLIUM, TOTAL	205.7	0.004 mg/L			<input type="checkbox"/>	mg/L	0.004 mg/L
<input type="checkbox"/>	1885	THALLIUM, TOTAL	205.9	0.001 mg/L			<input type="checkbox"/>	mg/L	0.002 mg/L
<input type="checkbox"/>	1825	pH	410034.0	na			<input type="checkbox"/>	Units	6.5-8.5

Figure 6. Inorganics, SOCs, THMs/HAA5s, and Radionuclides Entry Screen

The screen for these chemicals has an extra button (Figure 17 above) – to enable entering different analysis begin/end dates and times – see below for more details.

By depressing the “Click here to enter Analysis Dates per Method Code”, the user can enter method-appropriate dates and times for each analysis on the following screen.

Analysis Dates per Method Code



Enter analysis start and end date/times for all relevant method codes.

Method Code	Start Date	Start Time	End Date	End Time
200.7	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
200.9	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
245.1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4500CN-E	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4500F-C	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4500H-B	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4500SO4-E	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Hit F3 in Start Date column to copy previous entries.

Save

Figure 7. Analysis Dates and Times for Different Methods

When analysis date and time information is entered, the user can proceed entering the analytical measurements. Check the "Report" row, in order to be able to enter the measured (or non-detect) result for each contaminant, see below for Nitrate/Nitrite example.

Sample Details - Google Chrome
 qa.pws2.denr.nc.gov/pages/Chemical.aspx

NITRATE/NITRITE

Close

Save and Close

Status: New Sample

Demographics

Water System Number: NC0392010 County: WAKE Name: RALEIGH, CITY OF

Sample Type: Routine (Compliance) Non-Compliance Collected By: Lab Collector Date: 06/01/2014 Time: 08:00 AM

Sample Point: EP3 - BENTON PLANT Facility ID No: P03 Location: BENTON PLANT

Mail Results To Skip these when tabbing

Name & Address: RALEIGH, CITY OF PO BOX 590 RALEIGH, CITY OF RALEIGH NC 27602 Phone # / (ext): 919-996-3070 Fax #: Contact Email:

ID/Comments

Lab ID#: 37701 Log ID: -Pending- Comments:

Analysis

Start Date: 6/2/2014 Time: 08:00 AM End Date: 06/03/2014 Time: 07:00 AM

Analysis Complete Certified By:

Report	Contam Code	Contaminant	Method Code	Required Reporting Limit	Analysis Started	Analysis Ended	Not Detected	Quantified Results	Allowable Limits
<input checked="" type="checkbox"/>	1040	NITRATE	4500NO3-E	1.00 mg/L	-Pending Save-	-Pending Save-	<input type="checkbox"/>	mg/L	10 mg/L
<input type="checkbox"/>	1041	NITRITE	4500NO2-B	0.10 mg/L	-Pending Save-	-Pending Save-	<input checked="" type="checkbox"/>	mg/L	1 mg/L

Figure 8. Entering Analytical Measurement

"Certified By" and "Analysis Complete" fields must be completed before an analysis can be saved.

Once the analysis is completed and saved, it will appear in “RDY” (for “ready to submit”) status in Main View. A unique Lab Log ID will be created by the software and displayed with each analysis, see screen below.



Figure 9. Chemical Analysis in Ready Status in Main View

2.2.3. Entering Chemical Batch

Batch functionality is an enhancement built in to save lab users keystrokes when entering information for multiple samples from the same analysis run. Information that is known to be common among all samples in the batch (i.e., the analysis start dates/times are all the same, or all the samples are from the same water system) can be entered just once, and the software will later apply it to each sampling result automatically.

2.2.3.1. Adding Chemical Batch

To begin a new batch, click the “Add Batch” button on the top row in Main View. The following screen opens:

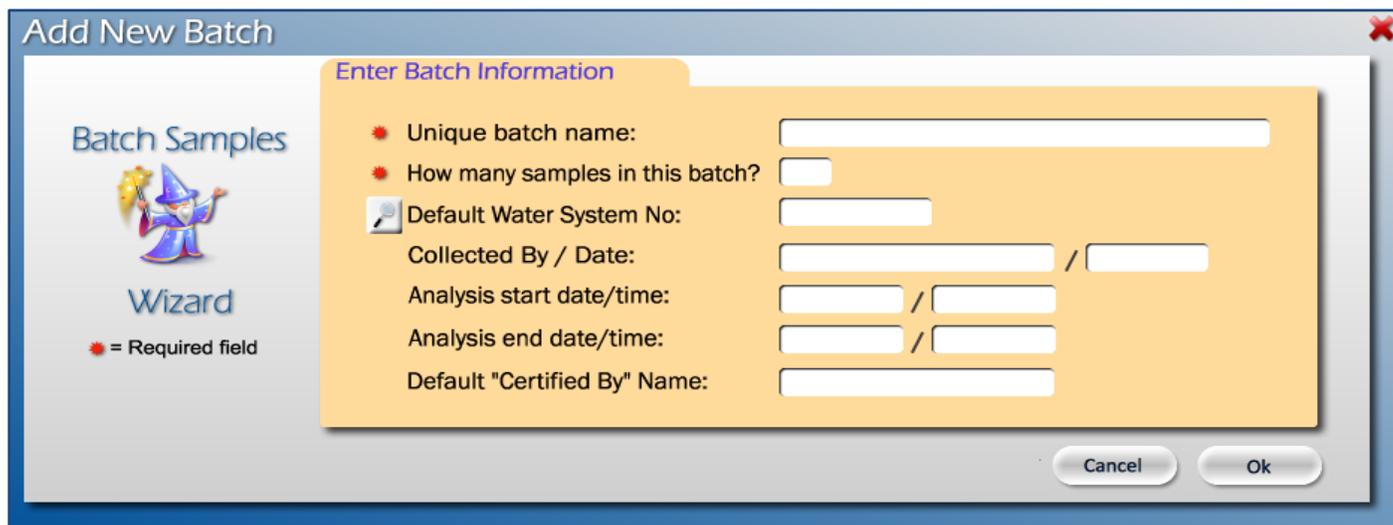


Figure 10. Add New Chemical Batch Screen

Each field marked with a red dot must be populated. Fields that do not have a red dot can be optionally populated. If those optional fields (Default Water System No, Collected by, Collection Date, Analysis Start/End date and time, Certified by) are not populated in the Add New Batch Screen, they will need to be filled in on the Data Entry Screen for each sample/analysis. Note that “Analysis start date/time” and “Analysis end date/time” fields would not be populated on the batch screen for Inorganics, SOC and THM/HAA5 as dates and times are populated for each method on the analysis screen, as explained [above](#).

Below, each field is explained in detail.

 Unique batch name:

Each batch, once created, must be saved until all sample and analysis information is entered. In order for the user to have access to this batch in progress, the batch must have a unique name. Once a batch is complete, the batch as an object is automatically deleted, and all of the results are moved into the Main View queue and can only be accessed individually. The name for that batch can then be reused.

 How many samples in this batch?

The maximum number of samples allowed for one batch is 99. The number of samples entered here may be changed at a later point on Select/Edit Batch Screen. More details are included below, under “b. Editing Batch Samples”.

 Default Water System No:

Similar to individual sample, Water System No. can be entered here. You can also search for a water system by number or name by pressing on the “magnifying glass” icon to the left. If all samples in a batch are from the same water system, the water system number should be entered here - if not, “Water System No.” field will need to be populated on the Chemical Entry Screen.

Collected By / Date:

If all samples in a batch are collected by the same person and/or on the same date, these fields should be populated.

Analysis start date/time:

Analysis end date/time:

If all analyses in the batch share the start and end date/time information, it should be populated here.

Default "Certified By" Name:

This field should contain the first and last name of the person certifying the analysis.

Once all of the information on the Add New Batch Screen has been completed, click “Save.” You will now be able to proceed to entering individual sample details and analysis information.

2.2.3.2. Editing Chemical Batch

Entering individual sample details and analysis information can be accomplished through “Edit Batch” mode. To begin entering this information, click on the “Edit Batch” button in Main View.



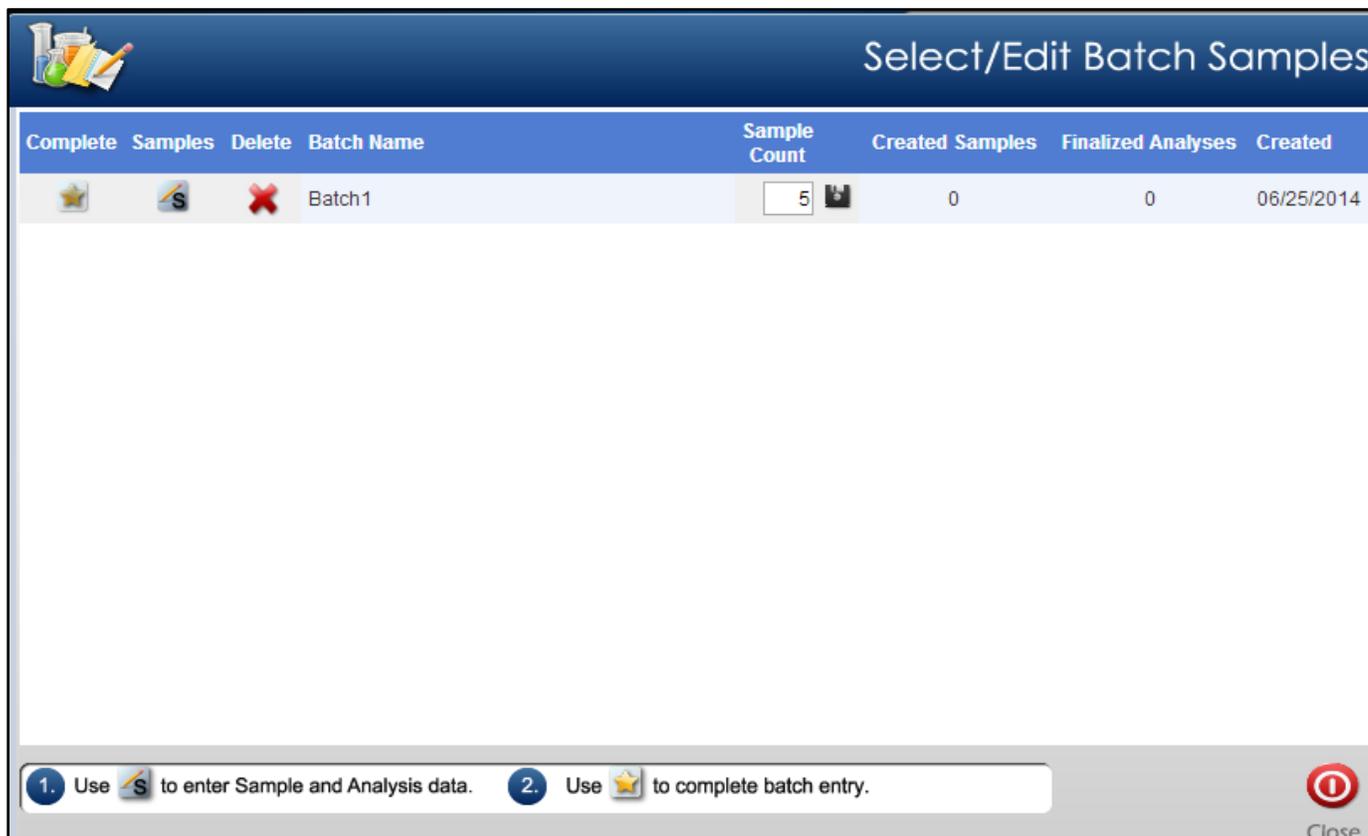


Figure 11. Select/Edit Chemical Batch Screen

This is also where the number of samples in the batch can be changed. To change the number, enter the new number under “Sample Count”, and click the button to its immediate right.

2.2.3.3. Entering Sample/Analysis in Batch Mode

Next, proceed to completing data entry in the batch by populating fields for sample type, facility, location, collection time. Also complete the system and collector/collection date information, if it was not entered when the batch was created, as well as analytical information.

Click the Samples icon in the corresponding row on the above screen.



The chemical entry screen will appear as depicted in Figures [15](#), [16](#), and [17](#). Proceed to enter the rest of the information as explained in the accompanying instructions.

Once the last analysis is entered and saved, the only remaining pre-submittal step is to complete the batch. This step moves the batch from “Edit Batch” mode into Main View. After this step, the batch can no longer be edited via “Edit Batch” as it is split up into individual sampling results instead. For this reason, before completing a batch, the user needs to verify that all of the information entered is correct, as the convenience of batch editing will be gone and any changes will have to be made to each result individually. To complete the batch, click star icon.



Note that when individual batch samples are transferred to Main View, the Select/Edit Batch Screen will indicate “No matching records found”. Each individual sample and its associated lab results should now be displayed as “RDY” on the Main View.

3. Submitting Sampling Results

! To better serve your customers and manage your data more efficiently, it is strongly recommended that you submit sampling results to CMDP within 24 hours of completion of the analyses. This expedited submittal of sampling results will enable your customers to view their monitoring results under “Sampling Status” and “Drinking Water Watch” on the PWS Section’s website immediately. If data cannot be submitted in this timeframe, submittal of data on a weekly basis, at a minimum, is recommended.

3.1. Uploading Sample Files to CMDP

Once your samples have been created in LDS and have a “RDY” status, they may be uploaded to CMDP directly from the LDS dashboard. There are two options: “CMDP ALL RDY”, which uploads all the samples with “RDY” status, and “CMDP Selected”, which uploads only the samples that have their checkbox selected. Click the icon you would like to use to upload the samples.



Figure 12. Upload Icons in LDS - Upload Selected or Upload All RDY

Note: Composite samples must be uploaded individually using the ‘Upload Selected’ icon.

Once you have chosen either option, a pop-up window will prompt you to enter your CMDP username and password. Enter your SCS credentials to create and send an XML file to CMDP.

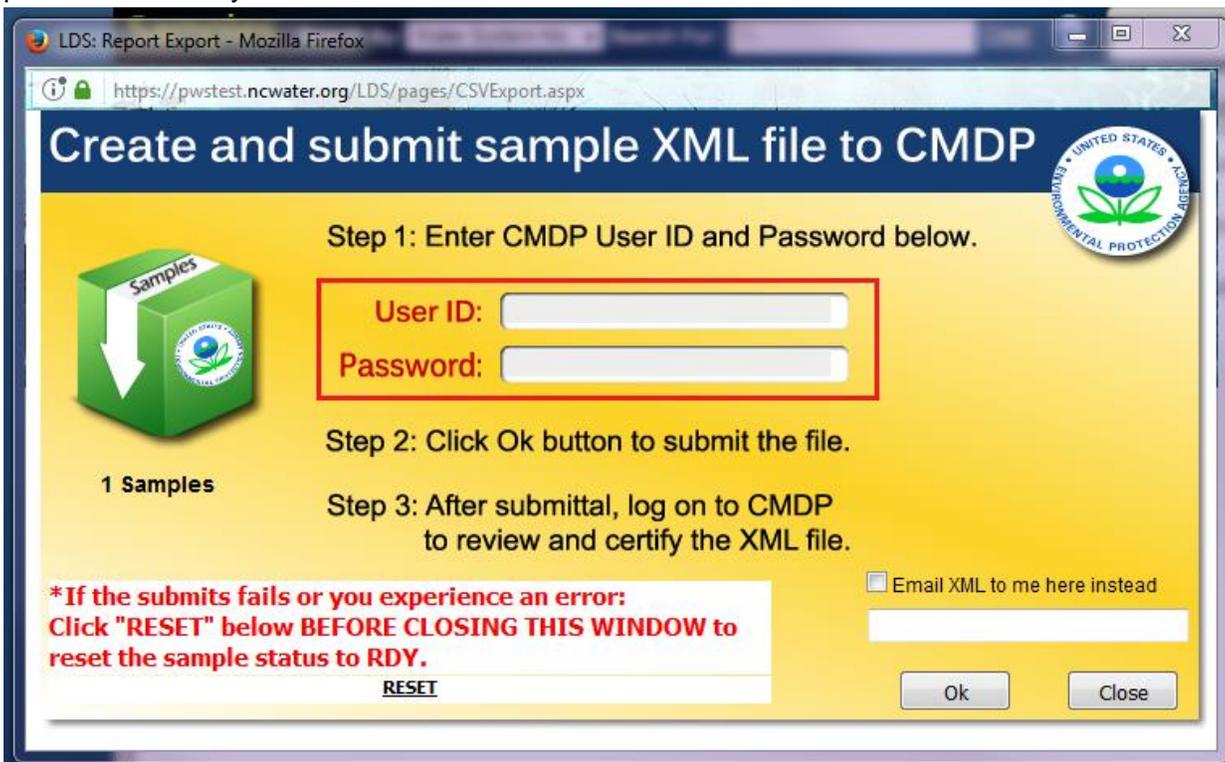


Figure 13. Create and Upload XML File to CMDP

Read the prompted agreement and click “OK” to continue, or “Cancel” to make changes. Once you click “OK”, you will need to continue to the CMDP website to complete the submission to the State.

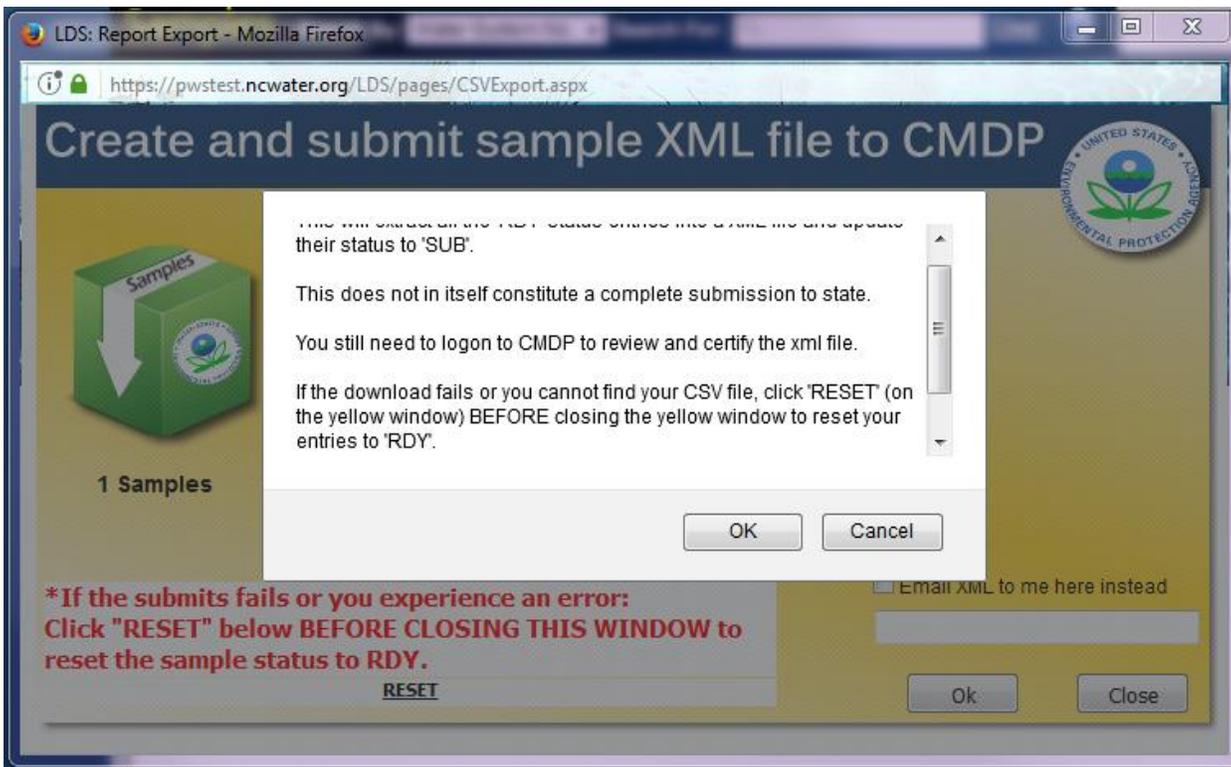


Figure 14. Agree to Upload File to CMDP and to Login to CMDP to Review and Certify the File

A pop-up window will confirm that the file was successfully sent to CMDP. Click “OK”.

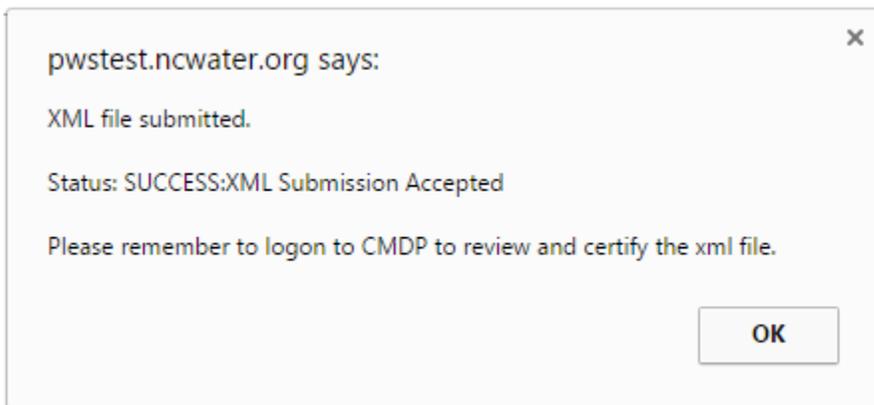


Figure 15. Pop-up Notification of File Successfully Submitted to CMDP

Close out of the upload file window and use the “Go To CMDP” Icon at the top of the page to open a new window to the CMDP login screen.



Figure 16. Use “Go To CMDP” Icon to open the CMDP login screen

3.2. Reviewing, Certifying, and Submitting Samples in CMDP

To verify that the sample(s) uploaded or transferred to CMDP successfully, log on to the CMDP web application (<https://cmdp.epa.gov>) using your SCS login credentials.

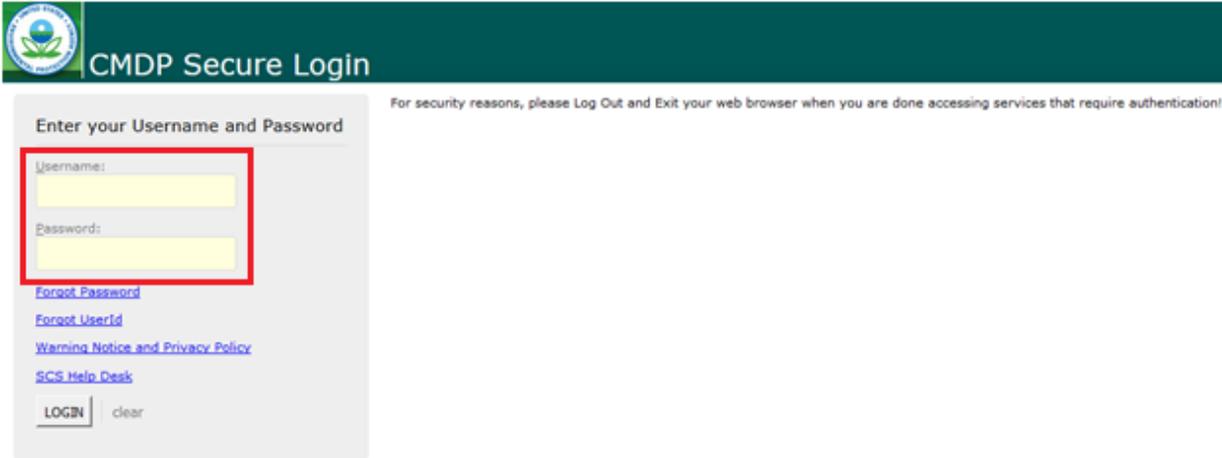


Figure 17. Login to CMDP using your SCS Username and Password

Select the “Drinking Water Sample Jobs” tab near the top of the page to view a list of submitted files in “Job Maintenance View”.

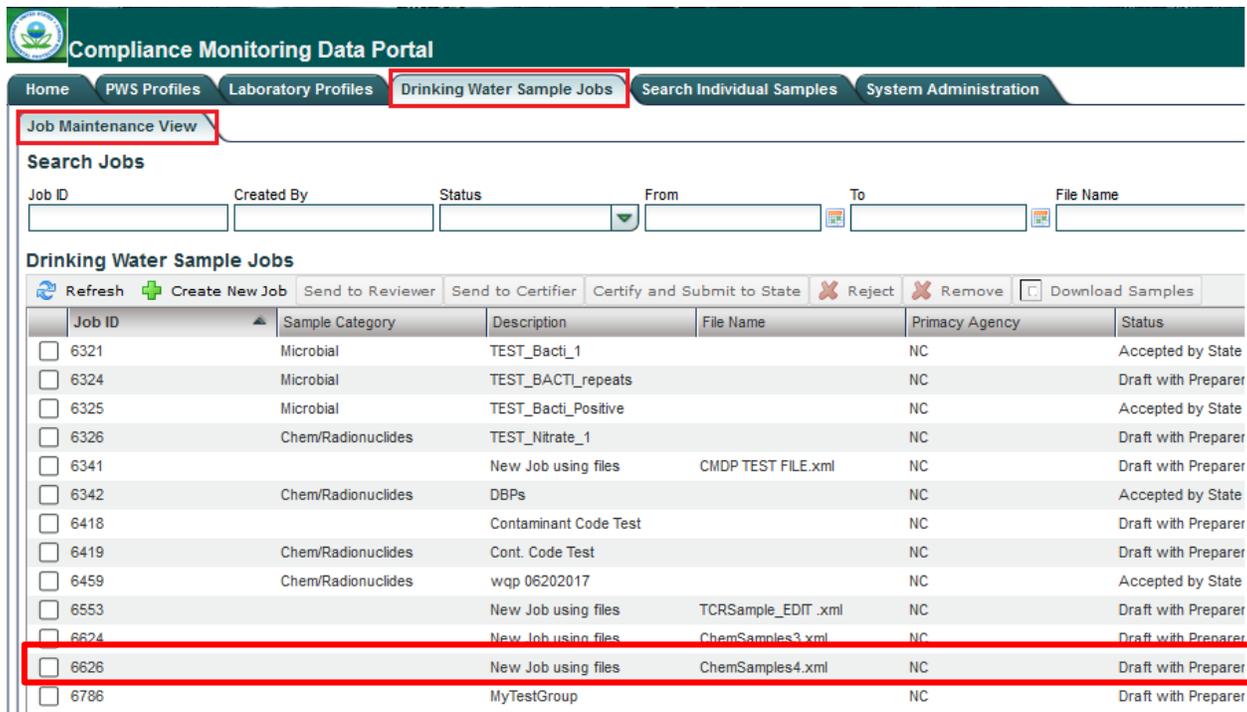


Figure 18. View Drinking Water Sample Jobs

User will then double-click the sample job they just created to open the “Job Summary View”.

In the “Job Summary View”, click on the “Validation” tab to check the XML file for errors. “XML Submittal Validation Summary” will show how many samples of each type were uploaded, how many were without errors, and how many had errors. Click on the row to view error descriptions.

The screenshot shows the 'Job Summary View - 6624' with the 'Validations' tab selected. Below the tabs, there are two sections:

Federal Reporting Validation Results

Category	Sample Identifier	Validation Category
No items to show.		

XML Submittal Validation Summary

Category	Total	Without Errors
Microbial	0	0
Chem/Radionuclides	1	0
Cryptosporidium	0	0
Operational	0	0
Composite	0	0

Figure 19. Checking the Validation Tab for XML File Errors

After clicking on the row of the samples you wish to see, the “XML Submittal Validation Error Details” section will show error messages detailing where and what type of error occurred.

The screenshot shows the 'XML Submittal Validation Error Details' section. It contains two tables:

XML Submittal Validation Summary

Category	Total	Without Errors	With Errors
Microbial	0	0	0
Chem/Radionuclides	1	0	1
Cryptosporidium	0	0	0
Operational	0	0	0
Composite	0	0	0

XML Submittal Validation Error Details

Category	Validation Category	Sample Identifier	Error Description
Chem/Radionuclides	Critical	{ "wsid": "NC0392020", "jobid": "6624", "sampleCategory": "Chem/Radionuclides", "facilityName": "c...	{ "facilityId": "Invalid Facility Id.", "facSamplingPointId": "Invalid Facility Sampling Point Id.", "legalEntityId": "Invalid Lab Id." }

Below this, a detailed view of the error is shown:

Sample Identifier	Error Description
{ "wsid": "NC0392020", "jobid": "6626", "sampleCategory": "Chem/Radionuclides", "facilityName": "c...	{ "facilityId": "Invalid Facility Id.", "facSamplingPointId": "Invalid Facility Sampling Point Id.", "legalEntityId": "Invalid Lab Id." }

Figure 20. Reviewing Error Descriptions

If critical errors are found, close out of the “Job Summary View” and return to the “Job Maintenance View”. Select the job and click “Remove” to delete. Make corrections to the samples and re-upload the sample file following the steps outlined in Section 3.1 above, **Uploading Sample Files to CMDP**.

Home PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration

Job Maintenance View

Search Jobs

Job ID Created By Status From To File Name

Drinking Water Sample Jobs

Refresh Create New Job Send to Reviewer Send to Certifier Certify and Submit to State Reject **Remove** Download Samples

Job ID	Sample Category	Description	File Name	Primacy Agency	Status
<input type="checkbox"/>	6419	Chem/Radionuclides	Cont. Code Test	NC	Draft with Preparer
<input type="checkbox"/>	6418		Contaminant Code Test	NC	Draft with Preparer
<input type="checkbox"/>	6342	Chem/Radionuclides	DBPs	NC	Accepted by State
<input type="checkbox"/>	6786		MyTestGroup	NC	Draft with Preparer
<input type="checkbox"/>	6341		New Job using files CMDP TEST FILE.xml	NC	Draft with Preparer
<input type="checkbox"/>	6553		New Job using files TCRSample_EDIT .xml	NC	Accepted by State
<input type="checkbox"/>	6624		New Job using files ChemSamples3.xml	NC	Draft with Reviewer
<input type="checkbox"/>	6626		New Job using files ChemSamples4.xml	NC	Draft with Preparer
<input checked="" type="checkbox"/>	6813		New Job using files ChemSamples4.xml	NC	Draft with Preparer
<input type="checkbox"/>	6321	Microbial	TEST_Bacti_1	NC	Accepted by State
<input type="checkbox"/>	6325	Microbial	TEST_Bacti_Positive	NC	Accepted by State
<input type="checkbox"/>	6324	Microbial	TEST_BACTI_repeats	NC	Draft with Preparer
<input type="checkbox"/>	6326	Chem/Radionuclides	TEST_Nitrate_1	NC	Draft with Preparer
<input type="checkbox"/>	6459	Chem/Radionuclides	wqp 06202017	NC	Accepted by State

Figure 21. Removing Job Files from CMDP

Once all errors have been corrected, transfer the job to the reviewer. Click the box next to the job to select it, then click 'Send to Reviewer'.

Compliance Monitoring Data Portal

Home PWS Profiles Laboratory Profiles Drinking Water Sample Jobs Search Individual Samples System Administration

Job Maintenance View

Search Jobs

Job ID Created By Status From To File Name Search

Drinking Water Sample Jobs

Refresh Create New Job **Send to Reviewer** Send to Certifier Certify and Submit to State Reject Remove Download Samples

Job ID	Sample Category	Description	File Name	Primacy Agency	Status
<input type="checkbox"/>	6321	Microbial	TEST_Bacti_1	NC	Accepted by State
<input type="checkbox"/>	6324	Microbial	TEST_BACTI_repeats	NC	Draft with Preparer
<input type="checkbox"/>	6325	Microbial	TEST_Bacti_Positive	NC	Accepted by State
<input type="checkbox"/>	6326	Chem/Radionuclides	TEST_Nitrate_1	NC	Draft with Preparer
<input type="checkbox"/>	6341		New Job using files CMDP TEST FILE.xml	NC	Draft with Preparer
<input type="checkbox"/>	6342	Chem/Radionuclides	DBPs	NC	Accepted by State
<input type="checkbox"/>	6418		Contaminant Code Test	NC	Draft with Preparer
<input type="checkbox"/>	6419	Chem/Radionuclides	Cont. Code Test	NC	Draft with Preparer
<input type="checkbox"/>	6459	Chem/Radionuclides	wqp 06202017	NC	Accepted by State
<input checked="" type="checkbox"/>	6553		New Job using files TCRSample_EDIT .xml	NC	Draft with Preparer
<input type="checkbox"/>	6624		New Job using files Chemsamples3.xml	NC	Draft with Preparer
<input type="checkbox"/>	6626		New Job using files ChemSamples4.xml	NC	Draft with Preparer
<input type="checkbox"/>	6786		MyTestGroup	NC	Draft with Preparer

Figure 22. Certifying and Submitting Step 1: Send File to Reviewer

A prompt will ask you to select an individual from the dropdown menu. Once the reviewer has been selected, click "Submit". For this step, users with Certifier or Administrator roles will be selecting themselves.

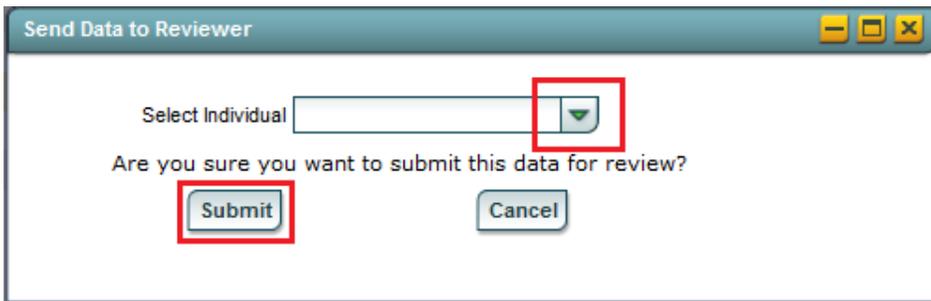


Figure 23. Submitting the File to Reviewer

A notification will indicate if a sample was sent successfully.

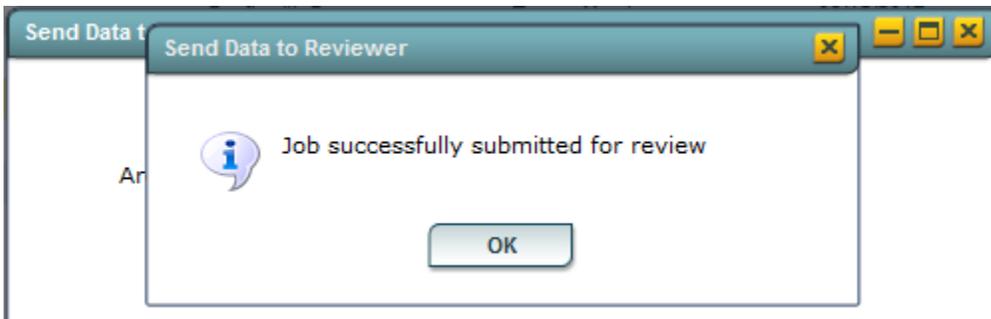


Figure 24. Notification of Job Successfully Submitted for Review

Once the sample has been submitted for review, the Reviewer, if a separate entity than the Preparer, must log on to access the job. From the same “Job Maintenance View” window under “Drinking Water Sample Jobs”, the Reviewer’s name should appear under “Reviewer”.

Compliance Monitoring Data Portal

Home PWS Profiles Laboratory Profiles **Drinking Water Sample Jobs** Search Individual Samples System Administration

Job Maintenance View

Search Jobs

Job ID Created By Status From To File Name Search Reset

Drinking Water Sample Jobs

Refresh Create New Job Send to Reviewer Send to Certifier Certify and Submit to State Reject Remove Download Samples

Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Review Date
<input type="checkbox"/> 6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017
<input type="checkbox"/> 6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda Harper	06/02/2017		
<input type="checkbox"/> 6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017
<input type="checkbox"/> 6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda Harper	06/02/2017		
<input type="checkbox"/> 6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Morrison	06/05/2017		
<input type="checkbox"/> 6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Morrison	06/05/2017	Turner Morrison	06/05/2017
<input type="checkbox"/> 6418		Contaminant Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017		
<input type="checkbox"/> 6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017		
<input type="checkbox"/> 6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda Harper	06/20/2017	Miranda Harper	07/28/2017
<input checked="" type="checkbox"/> 6553		New Job using files	TCRSample_EDIT .xml	NC	Draft with Reviewer	Miranda Harper	06/29/2017	Miranda Harper	
<input type="checkbox"/> 6624		New Job using files	ChemSamples3.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017		
<input type="checkbox"/> 6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017		
<input type="checkbox"/> 6786		MyTestGroup		NC	Draft with Preparer	Miranda Harper	07/31/2017		

Figure 25. How to Verify that the Job has been sent to the Reviewer

To review a sample job, double click the job you want to view. A window titled “Job Summary View” will open. The Reviewer then clicks on the “Sample Result” tab to view the sample information. The viewer will see a summary of the sample information for all the samples in the file.

Category	WS ID	WS Name	Facility Name	Sampling Point	Sample ID	Sample Type	Collection Date
Microbial	NC0241010	GREENSBORO, CITY OF	DISTRIBUTION SYSTEM	RTOR	123117-0001	Routine	12/04/2017
Microbial	NC0241010	GREENSBORO, CITY OF	DISTRIBUTION SYSTEM	RTOR	123117-0002	Routine	12/04/2017

Figure 26. How to Review Sample Results

For a more detailed view of the sample information, double click on the sample row that you would like to view. A new window will open displaying the analysis information. When you have finished reviewing the sample information for the selected row, click the “Close” icon. You will return to the “Sample Result” view and can select another sample to review.

Microbial

Save Save And Add Another **Close** * - Required + - Conditionally Required f - Federally Required f - Federally Conditionally Req

Set Default Values for Sample Information

Water System ID: NC0241010 Water System Name: GREENSBORO, CITY OF Facility: D01 - DISTRIBUTION SYSTEM Sampling Point: RTOR Sampling Location: F37

Sample ID: 123117-0002 Collection Date: 12/04/2017 Collection Time: 10:18 Sample Received Date: 12/04/2017

Laboratory ID - Name: 37724 - ENCO Sample Type: Routine Sample Volume(ML): 100 Sample Collector Name: Tiffini Burlingame

Comment

Set Default Values for Sample Results Table

Microbial Analytes Results

Analyte	A/P	Count	Units	Volume(ML)	Interference	Volume Assayed(ML)	Method	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	Analyzing Lab ID	Source Type	Comments
<input type="checkbox"/> 3014 - E. Coli	Absent						COLISURE-PA - COLISURE - PRESENCE/AB...	12/04/2017	13:00	12/05/2017	13:00			
<input type="checkbox"/> 3014 - E. Coli	Absent						COLISURE-PA - COLISURE - PRESENCE/AB...	12/04/2017	13:00	12/05/2017	13:00			

Field Results and Measurements

Figure 27. Sample Information View

When the review of the sample information is complete and the job is ready to send to the Certifier, return to the “Job Maintenance View” window, select the job by checking its box, and then click “Send to Certifier”.

The screenshot shows the 'Compliance Monitoring Data Portal' interface. At the top, there are navigation tabs: Home, PWS Profiles, Laboratory Profiles, Drinking Water Sample Jobs, Search Individual Samples, and System Administration. Below these, there are two sub-tabs: 'Job Maintenance View' (highlighted with a red box) and 'Job Summary View - 6553' (with a red 'X' icon). The main area is titled 'Search Jobs' and contains several input fields: Job ID, Created By, Status (with a dropdown arrow), From, To, and File Name, followed by a 'Search' button. Below this is a section for 'Drinking Water Sample Jobs' with a toolbar containing: Refresh, Create New Job, Send to Reviewer, Send to Certifier (highlighted with a red box), Certify and Submit to State, Reject, Remove, and Download Samples. A table lists various jobs with columns for Job ID, Sample Category, Description, File Name, Primary Agency, Status, Preparer, Created On, and Reviewer. The job with ID 6553 is highlighted in yellow and has a checked checkbox in the first column. The 'Send to Certifier' button in the toolbar is also highlighted with a red box.

Figure 28. Certifying and Submitting Step 2: Send File to Certifier

Select an individual from the dropdown menu and click “Submit”. Remember that users with Certifier or Administrator roles will select themselves.

The screenshot shows a dialog box titled 'Send Data to Certifier'. It contains a 'Select Individual' label followed by a text input field and a dropdown arrow button (highlighted with a red box). Below this, the text asks 'Are you sure you want to submit this data to the certifier?'. At the bottom, there are two buttons: 'Submit' (highlighted with a red box) and 'Cancel'.

Figure 29. Submitting the File for Certification

A notification will indicate if a sample was sent successfully.

The screenshot shows a notification dialog box titled 'Send Data to Certifier' with a close button (X) in the top right corner. The dialog contains an information icon (i) and the text 'Job successfully submitted to certifier'. At the bottom, there is an 'OK' button.

Figure 30. Notification of Job Successfully Submitted to Certifier

Once the sample has been submitted for certification and submission, the Certifier, if a separate entity than the Reviewer, must log on to access the job. From the same “Job Maintenance View” window under “Drinking Water Sample Jobs”, the Certifier’s name should appear under “Certifier”.

The screenshot shows the 'Compliance Monitoring Data Portal' interface. The 'Drinking Water Sample Jobs' table is displayed with the following data:

Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer	Reviewed On	Certifier	Certified On
6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017
6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda Harper	06/02/2017				
6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017	Miranda Harper	06/02/2017
6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda Harper	06/02/2017				
6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Morrison	06/05/2017				
6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Morrison	06/05/2017	Turner Morrison	06/05/2017	Turner Morrison	06/05/2017
6418		Contaminant Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017				
6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017				
6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda Harper	06/20/2017	Miranda Harper	07/28/2017	Miranda Harper	07/28/2017
6553		New Job using files	TCRSample_EDIT.xml	NC	Draft with Certifier	Miranda Harper	06/29/2017	Miranda Harper	07/31/2017	Miranda Harper	
6624		New Job using files	ChemSamples3.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017				
6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017				
6786		MyTestGroup		NC	Draft with Preparer	Miranda Harper	07/31/2017				

Figure 31. How to Verify that the Job has been sent to the Certifier

To certify and submit to the State, select the sample and click “Certify and Submit to State”.

The screenshot shows the 'Compliance Monitoring Data Portal' interface. The 'Drinking Water Sample Jobs' table is displayed with the following data:

Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Created On	Reviewer
6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper
6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda Harper	06/02/2017	
6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda Harper	06/02/2017	Miranda Harper
6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda Harper	06/02/2017	
6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Morrison	06/05/2017	
6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Morrison	06/05/2017	Turner Morrison
6418		Contaminant Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017	
6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2017	
6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda Harper	06/20/2017	Miranda Harper
6553		New Job using files	TCRSample_EDIT.xml	NC	Draft with Certifier	Miranda Harper	06/29/2017	Miranda Harper
6624		New Job using files	ChemSamples3.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017	
6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda Harper	07/12/2017	
6786		MyTestGroup		NC	Draft with Preparer	Miranda Harper	07/31/2017	

Figure 32. Certifying and Submitting Step 3: Certify and Submit to the State

Answer the security question, check the certification box, and click “Submit”. If the Certifier would like to have a file submission confirmation, click “Download Sample XML” before clicking “Submit”.

Question

Job Id: 6553

Submission Context: [Download Sample XML](#)

Attachments

File Name	Description	Date Added
No items to show.		

Question: What is the first and middle name of your oldest sibling?

certify, under penalty of law that the information provided in this document is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Figure 33. Certifying and Submitting to the State by Answering Security Questions

Clicking “Download Sample XML” will produce a table with the following example information:

Job Id: 6624	
Prepared By: Miranda Harper	Created On: 07/12/2017
Reviewed By: Miranda Harper	Reviewed On: 08/03/2017
Certified By: Miranda Harper	Certified On:

Figure 34. Download Sample XML Table

A notification will verify that the job was successfully submitted to the State.

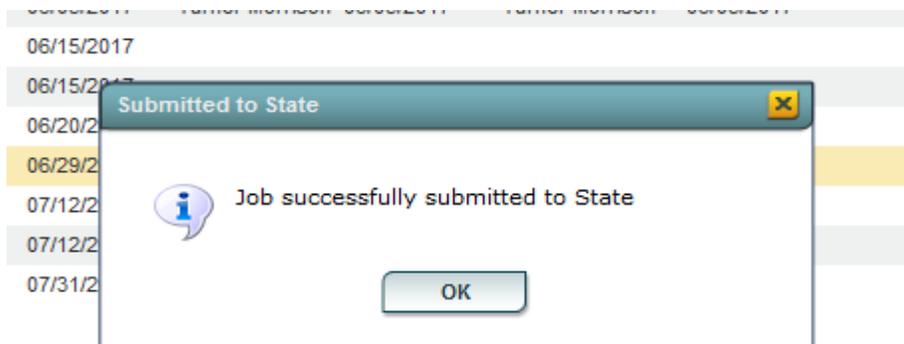


Figure 35. Notification of Job Successfully Submitted to the State

The status of the sample will change to “Submitted”. This indicates that the file has been marked for submission to the State and is waiting to be accepted into the State’s database.

Compliance Monitoring Data Portal

Home | PWS Profiles | Laboratory Profiles | Drinking Water Sample Jobs | Search Individual Samples | System Administration

Job Maintenance View

Search Jobs

Job ID: Created By: Status: From: To: File:

Drinking Water Sample Jobs

Refresh Create New Job Send to Reviewer Send to Certifier Certify and Submit to State Reject Remove Do

Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer	Create
<input type="checkbox"/> 6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda Harper	06/02/2
<input type="checkbox"/> 6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda Harper	06/02/2
<input type="checkbox"/> 6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda Harper	06/02/2
<input type="checkbox"/> 6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda Harper	06/02/2
<input type="checkbox"/> 6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Morrison	06/05/2
<input type="checkbox"/> 6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Morrison	06/05/2
<input type="checkbox"/> 6418		Contaminant Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2
<input type="checkbox"/> 6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Morrison	06/15/2
<input type="checkbox"/> 6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda Harper	06/20/2
<input checked="" type="checkbox"/> 6553		New Job using files	TCRSample_EDIT .xml	NC	Submitted	Miranda Harper	06/29/2
<input type="checkbox"/> 6624		New Job using files	ChemSamples3.xml	NC	Draft with Preparer	Miranda Harper	07/12/2
<input type="checkbox"/> 6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda Harper	07/12/2
<input type="checkbox"/> 6786		MyTestGroup		NC	Draft with Preparer	Miranda Harper	07/31/2

Figure 36. Verifying Status of the Sample Changed to Submitted

The State database (SDWIS) will refresh every 30 minutes and accept samples that have been marked for submission. Once the sample is accepted, the status of the job will change to “Accepted by State”. At this point, no further action is required. If an error is found after the file has been accepted, contact the appropriate Rule Manager for the sample contaminant to request that the sample be deleted.

Compliance Monitoring Data Portal

Home | PWS Profiles | Laboratory Profiles | Drinking Water Sample Jobs | Search Individual Samples | System Administration

Job Maintenance View

Search Jobs

Job ID: Created By: Status: From: To: File Name: Search

Drinking Water Sample Jobs

Refresh Create New Job Send to Reviewer Send to Certifier Certify and Submit to State Reject Remove Download Samples

Job ID	Sample Category	Description	File Name	Primacy Agency	Status	Preparer
<input type="checkbox"/> 6321	Microbial	TEST_Bacti_1		NC	Accepted by State	Miranda He
<input type="checkbox"/> 6324	Microbial	TEST_BACTI_repeats		NC	Draft with Preparer	Miranda He
<input type="checkbox"/> 6325	Microbial	TEST_Bacti_Positive		NC	Accepted by State	Miranda He
<input type="checkbox"/> 6326	Chem/Radionuclides	TEST_Nitrate_1		NC	Draft with Preparer	Miranda He
<input type="checkbox"/> 6341		New Job using files	CMDP TEST FILE.xml	NC	Draft with Preparer	Turner Moi
<input type="checkbox"/> 6342	Chem/Radionuclides	DBPs		NC	Accepted by State	Turner Moi
<input type="checkbox"/> 6418		Contaminant Code Test		NC	Draft with Preparer	Turner Moi
<input type="checkbox"/> 6419	Chem/Radionuclides	Cont. Code Test		NC	Draft with Preparer	Turner Moi
<input type="checkbox"/> 6459	Chem/Radionuclides	wqp 06202017		NC	Accepted by State	Miranda He
<input type="checkbox"/> 6553		New Job using files	TCRSample_EDIT .xml	NC	Submitted	Miranda He
<input type="checkbox"/> 6624		New Job using files	ChemSamples3.xml	NC	Draft with Reviewer	Miranda He
<input type="checkbox"/> 6626		New Job using files	ChemSamples4.xml	NC	Draft with Preparer	Miranda He
<input type="checkbox"/> 6786		MyTestGroup		NC	Draft with Preparer	Miranda He

Figure 37. Verifying Status of the Sample Changed to Accepted by State

If an error in the sample information is found before the sample has been certified and submitted to the State, you may delete the entire job ID as you would if you had a critical error (page 5) or delete the individual sample that needs to be corrected. To delete an individual sample from a job, open the Job Summary View by double clicking on the job in the 'Job Maintenance View', select the checkbox next to the sample that needs to be removed, and click 'Remove'. Contact the appropriate rule manager for the sample contaminant to have the sample reset in LDS so that corrections can be made. Resubmit the sample following the same CMDP upload and certification procedure.



Figure 38. Removing a Sample from a Job File

If an error in the sample information is found after the file has been certified and submitted, contact the appropriate rule manager for the sample contaminant to have the sample deleted from the State database and reset in LDS. Please be aware that once the sample job has been certified, the samples cannot be modified or deleted in CMDP. Therefore, the user must use an amended sample ID number when resubmitting modified sample data to prevent a duplicate sample ID error in CMDP. We recommend adding an _A to the end of the end of the sample ID to denote that it has been amended (i.e. 20190101_W01_A). The rule manager can still reset the sample in LDS back to RDY status so that the sample data and sample ID can be updated for re-submission. Remember to uncheck the analysis complete box to unlock the sample data for editing. For total coliform samples this requires opening the analysis screen first (the microscope icon), unchecking the complete box, and saving before you can modify the sample in the edit/review screen (paper and pencil icon). The analysis complete box must re-checked to advance the sample from ANL status back to RDY status.

4. Generating Reports

An ability to export your data into an Excel file was added based on users' requests. Please note that this option exists for your own informational needs, be it bookkeeping or reporting to clients, and has nothing to do with reporting to the State. To export data into Excel, press "My Reports" in the top right-hand corner of Main View Screen.

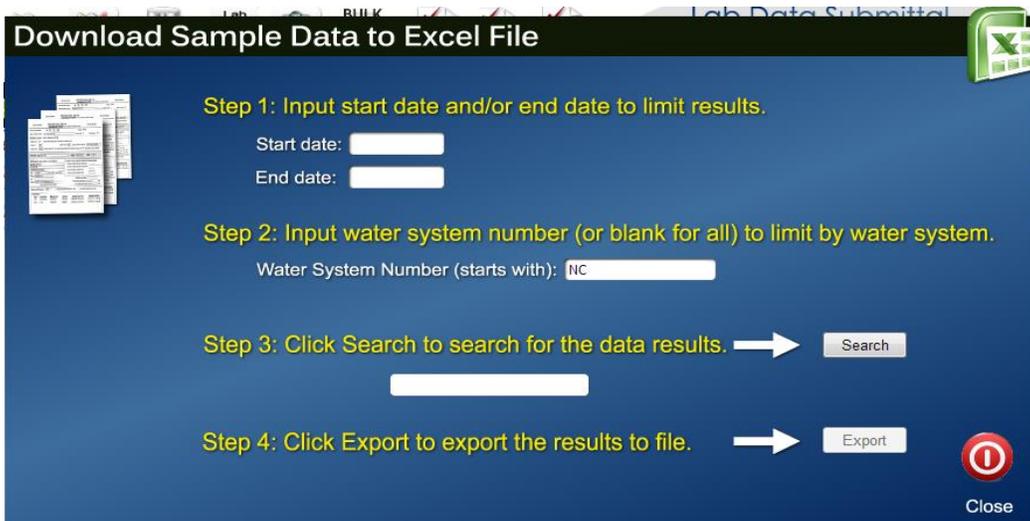
! Do not submit the Excel file generated through "My Reports" to the State in place of uploading the sample files through CMDP.



The screenshot shows the 'Lab Data Submittal 2.0' interface. At the top, there is a navigation bar with various icons for actions like 'Add Sample', 'Add Batch', 'Edit Batch', 'BULK Print All', 'Print Selected', 'Delete Selected', 'Upload Selected', 'Upload All RDY', and 'Go To CMDP'. On the right side of this bar, the 'Contaminant Group' is set to 'BACTI/GWR', and the 'My Reports' link is highlighted with a red box. Below the navigation bar, there is a search section with 'Search By: Water System No.' and a search input field. A table of samples is displayed below, with columns for 'Sel', 'Edit', 'Analysis', 'Rep', 'Lab Log ID', 'Status', 'Rule', 'Type', 'Water Sys Number', 'Water Sys Name', 'Loc', 'Free Cl', 'Tot Cl', 'Collected On', 'TColi', and 'EColi'. Two sample records are visible: 'TEST_TC_POSITIVE_M_1' and 'TEST_TC_REPEAT_M_3'.

Figure 39. My Reports Option

The Report Screen will open as shown below.



The screenshot shows the 'Download Sample Data to Excel File' report screen. It has a dark blue background and contains four steps for generating the report:

- Step 1:** Input start date and/or end date to limit results. Fields for 'Start date:' and 'End date:' are provided.
- Step 2:** Input water system number (or blank for all) to limit by water system. A field for 'Water System Number (starts with):' is shown with 'NC' entered.
- Step 3:** Click Search to search for the data results. A 'Search' button is visible.
- Step 4:** Click Export to export the results to file. An 'Export' button is visible.

A 'Close' button is located at the bottom right of the screen.

Figure 40. Reports Screen

To obtain a specific record(s), fill in the sample collection start and/or end date and the water system number (leaving a field blank will bring all records, e.g. to see all water systems for a selected date range, leave the water system number field blank). Then click "Search" to view the number of matching records. To generate the Excel file, click "Export." The file will contain all of the data that you requested, at which point you can use the additional sorting, filtering, and calculating options available in Excel.

Appendices

Appendix 1 - Sample Status

Each sample in the LDS Main View can be in one of the following statuses:

- **“PRE”** (for “pre-collection”) - applies only to individually (i.e. not as a batch) entered samples. Contains only the information necessary to be on a sampling form sent out for collection with a bottle, such as Water System No., Name, Source, Facility Type, Lab ID, Sample Type, Facility ID, Sample Point. Lab Log ID, Location Code and Location can be optionally entered at this stage.
- **“PST”** (for “post-collection”) - applies only to individually entered samples. All sample information is entered and disinfectant information (for TCR samples), “Collector Name”, “Collection Date” and “Collection Time” fields are populated; no analysis information is entered yet.
- **“ANL”** (for “analysis started”) - this status will appear after analysis information had started to be entered, but the entry was saved before completion.
- **“RDY”** (for “ready for submittal”) - in addition to all required sample information, analytical result, dates, times, and Lab Log ID are entered, the “Certified By” field is populated and the “Analysis Complete” box is checked. This status will also be displayed for all sampling results entered as batches, after a batch is completed.
- **“SUB”** (for “submitted to SDWIS”) – an XML file for the sample results has been submitted to CMDP for final certification and submission to State. The sampling results have not yet been accepted into SDWIS database.
- **“RJT”** (for “rejected by SDWIS”) – an XML file with sample results had been uploaded to CMDP, but there were errors, either in the sample detail or sample analysis that prevented full acceptance of all records. Details on errors can be viewed by clicking on sample status while it is “RJT”, which will also be highlighted in red in Main View.

Each sample in the CMDP Main View can be in one of the following statuses:

- **“Draft with Preparer”** – Job is currently maintained by a Preparer (Reviewer and Certifier roles also have edit rights). Modifications to the Job can still occur (add/edit/remove), and validations will be executed when Job is saved.
- **“Draft with Reviewer”** – Job is currently under review (only Reviewer and Certifier roles have edit rights). Modifications can still occur (add/edit/remove), and validations will be executed when Job is saved.
- **“Submitted”** – Job has been submitted by reporting organization to primacy agency. No modifications are possible.
- **“Accepted by State”** – Job data has been migrated to primacy agency compliance system. No modifications are possible.

Appendix 2 – Contaminant Groups

The table below lists all of the potential contaminant groups for which a laboratory may be certified to perform the analyses. Each contaminant group is represented as a separate module (see [Figure 2](#)). Contaminant codes represent analytes that fall under each group, representing analyte codes in SDWIS. These codes are displayed on the state laboratory forms and are preserved in LDS.

Asbestos

<u>Code</u>	<u>Name</u>
1094	Asbestos

Bacti/GWR

<u>Code</u>	<u>Name</u>
3100	Coliform
3014	<i>E. Coli</i>
3001	Heterotrophic Plate Count
3002	Enterococci
3028	Coliphage

Bromate/Bromide

<u>Code</u>	<u>Name</u>
1011	Bromate
1004	Bromide

ClO₂/Chlorite

<u>Code</u>	<u>Name</u>
1008	Chlorine Dioxide
1009	Chlorite

Dioxin

<u>Code</u>	<u>Name</u>
2063	2,3,7,8-TCDD

Inorganics

<u>Code</u>	<u>Name</u>
1005	Arsenic, Total
1010	Barium, Total
1015	Cadmium, Total
1020	Chromium
1024	Cyanide
1025	Fluoride
1028	Iron
1032	Manganese
1035	Mercury
1036	Nickel
1045	Selenium
1052	Sodium
1055	Sulfate
1074	Antimony
1075	Beryllium
1085	Thallium
1925	pH

Lead/Copper

<u>Code</u>	<u>Name</u>
1022	Copper, Free
1030	Lead

Nitrate/Nitrite

<u>Code</u>	<u>Name</u>
1040	Nitrate
1041	Nitrite

Radionuclides

<u>Code</u>	<u>Name</u>
4000	Gross Alpha, Excl. Radon & U
4002	Gross Alpha, Incl. Radon & U
4006	Combined Uranium
4010	Combined Radium (-226 & -228)
4020	Radium -226
4030	Radium -228
4100	Gross Beta Particle Activity

SOCs

<u>Code</u>	<u>Name</u>
2005	Endrin
2010	BHC-Gamma
2015	Methoxychlor
2020	Toxapene
2031	Dalapon
2035	Di(2-Ethylenexyl) Adipate
2036	Oxamyl
2037	Simazine
2039	Di(2-Ethylhexyl) Phthalate
2040	Picloram
2041	Dinoseb
2042	Hexachlorocyclopentadiene
2046	Atrazine
2051	Lasso
2065	Heptachlor
2067	Heptachlor Epoxide
2105	2,4,-D
2110	2,4,5-TP
2274	Hexachlorobenzene
2306	Benzo(a)pyrene
2326	Pentachlorophenol
2383	Total Ploychlorinated Piphenyls (PCB)
2931	1,2,-Dibromo-3-Chloropropane
2946	Ethylene Dibromide
2959	Chlordane

THMs/HAA5s

<u>Code</u>	<u>Name</u>
2450	Monochloroacetic Acid
2451	Dichloroacetic Acid
2452	Trichloroacetic Acid
2453	Monobromoacetic Acid
2454	Dibromoacetic Acid

2456	Total Haloacetic Acids (HAA5)
2944	Dibromochloromethane
2941	Cholorform
2942	Bromoform
2943	Bromodichloromethane
2950	Total Trihalomethanes

TOC

<u>Code</u>	<u>Name</u>
1927	Alkalinity, Total
2919	Carbon, Dissolved Organic (DOC)
2920	Carbon, Total
2922	UV Absorbance @254 NM

VOCs

<u>Code</u>	<u>Name</u>
2378	1,2,4-trichlorobenzene
2380	Cis-1,2,-dichloroethylene
2955	Xylenes, Total
2964	Dichloromethane
2968	O-dichlorobenzene
2969	P-dichlorobenzene
2976	Vinyl Chloride
2977	1,1-dichloroethylene
2979	Trans-1,2-dichloroethylene
2980	1,2-dichloroethane
2981	1,1,1-trichloroethane
2982	Carbon Tetrachloride
2983	1,2-dichloropropane
2984	Trichloroethylene
2985	1,1,2-trichloroethane
2987	Tetrachloroethylene
2989	Chlorobenzene
2990	Benzene
2991	Toluene
2992	Ethylbenzene
2996	Styrene

WQPs

<u>Code</u>	<u>Name</u>
1016	Calcium
1044	Orthophosphate
1049	Silica
1064	Conductivity @ 25 C Umhos/cm
1925	pH
1927	Alkalinity, Total
1996	Temperature (Centigrade)

Appendix 3 - Miscellaneous Tips and Getting Help

In general, using search and help functions in your browser are fairly reliable ways of getting the answers for browser-related questions. That said, we expect that most users will need at least some information on how to enable pop-ups or to find or select the download folder on your computer. Below are detailed instructions on those two topics for different browsers. In addition, we include instructions on printing, deleting samples, and some troubleshooting tips. The guidance provided in this section is fairly comprehensive and should help overcome most issues you may experience. However, if you have any questions, call support using contact information under “**Getting Help.**”

To enable pop-ups:

Internet Explorer (IE):

- Click the **Tools** button, then click **Pop-up Blocker**, and then click **Pop-up Blocker Settings**.
- In the **Address of website to allow** box, type (or copy and paste) the address of LDS, <https://pws.ncwater.org/LDS/pages/samples.aspx>, then click **Add**, then close the box.

! If your IE browser is equipped with Google Toolbar, it will take additional steps to enable pop-ups as Google Toolbar has its own pop-up blocker, see below.



Push the “crossed out monitor” button on the Google Toolbar and this will allow pop-ups from the site.

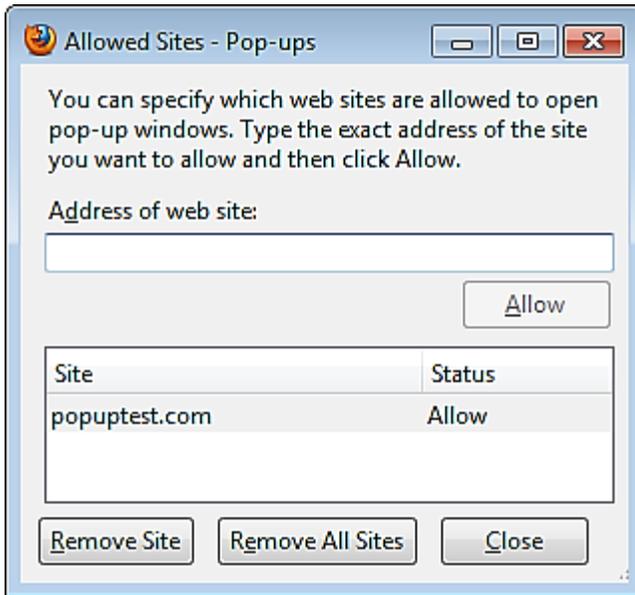


Google Chrome:

- To see blocked pop-ups for a site, follow the steps listed below:
- If pop-ups have been blocked, you'll see the  icon in the address bar. Click the icon to see a list of the blocked pop-ups.
- To always see pop-ups for the site, select "Always show pop-ups from [site]." The site will be added to the exceptions list, which you can manage in the Content Settings dialog.
- To manually allow pop-ups from a site, follow the steps below:
- Click the Chrome menu  on the browser toolbar.
- Select **Settings**.
- Click **Show advanced settings**.
- In the "Privacy" section, click the **Content settings** button.
- In the "Pop-ups" section, click **Manage exceptions**.

Mozilla Firefox:

- At the top of the Firefox window, click on the **Firefox** button and then select **Options**.
- Select the **Content** Panel.
- **Block pop-up windows:** Uncheck this to disable the pop-up blocker altogether.
- **Exceptions:** This is a list of sites that you want to allow to display pop-ups.



The dialog box has the following choices:

- **Allow:** Click this to add a website to the exceptions list.
- **Remove Site:** Click this to remove a website from the exceptions list.
- **Remove All Sites:** Click this to remove all of the websites in the exceptions list.

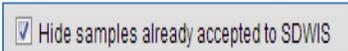
Printing:

Sel	Edit	Analysis	Rep	Lab Log ID	Status	Rule	Type	Water Sys No	Water Sys Name	Loc	Free Cl	Tot Cl	Collected On	TColi	EColi
<input type="checkbox"/>				TESTMRP1	SUB	TCR	RT	NC0188516	MIDWAY BIBLE BAPTIST CHURCH	001			12/01/13 08:00 AM		N/A
<input type="checkbox"/>				REST	SUB	TCR	RT	NC2023007	GRACE COVENANT CHURCH OF GOD	001	1		12/01/13 05:00 AM		
<input type="checkbox"/>				432	SUB	TCR	RT	NC2049021	A TASTEFUL SOLUTION	324			11/18/13 08:00 AM		
<input type="checkbox"/>				213213	SUB	TCR	RT	NC1011007	TOWN & COUNTRY MHP	123			11/19/13 06:50 AM		
<input type="checkbox"/>				TEST1	SUB	TCR	RT	NC0161101	ALTAPASS WATER ASSOCIATION	001			06/20/13 08:00 AM		
<input type="checkbox"/>				0913-002	SUB	TCR	RP	NC0161101	ALTAPASS WATER ASSOCIATION	001			09/17/13 06:00 AM		

For printing, check each box under the “Select” column heading for the rows you would like to print. Then, click the “Print Selected” button. Alternatively, you can use the “BULK Print All” button, which will print all samples in “RDY” and “SUB” statuses; no selection is needed.

Deleting Samples:

Similar to printing, check each box under the “Select” column heading for the rows to be deleted. Then, click the “Delete Selected” button. Any entry can be deleted from Main View prior to being submitted (prior to “SUB” status). When the XML sample file is uploaded to CMDP, all entries in “RDY” status get converted to “SUB” status and the Delete option is disabled at that point. The status will change to “ACC”, for “accepted”, when the sampling result gets accepted into SDWIS. The sample will then become hidden, but can be viewed by unchecking the following box:



Samples in “ACC” status cannot be deleted.

Once the sample file is uploaded to CMDP and the status has changed to “SUB”, you may call a representative from PWS Section to have this sample reset back to “RDY” status if necessary.

Frequently Asked Questions:

Registration/ Login:

1. I cannot log on to LDS, why?

This could happen for several reasons. The most common one is that the username e-mailed to us with the request to create an LDS account is not a valid NCID: make sure that you have obtained an NCID account before opening an LDS account. Another reason for log on failure is attempting to log on to LDS before receiving a confirmation e-mail from the PWS Section informing you that the LDS account was created: wait for the confirmation e-mail before attempting to log on.

2. I cannot log on to CMDP, why?

Your SCS account password must be updated every 90 days. Go to the SCS login page to reset your password (<https://encromerr.epa.gov>).

CMDP File Upload/Submission:

1. Where do I find my downloaded file?

With the most recent update to LDS, it is no longer necessary to download your sample file for submission. The XML sample file will be uploaded to CMDP after selecting either the “Upload Selected” or “Upload All RDY” options and entering your SCS username password. You can review, certify and submit the samples by logging into CMDP (<https://cmdpapp1.epa.gov>)

2. How do I know if the XML file uploaded to CMDP?

Login to CMDP and navigate to the “Drinking Water Sample Jobs” tab. Double click on the link for the job you would like to review. The sample information will open in a new tab that can be reviewed.

3. How do I know if results are uploaded successfully?

In LDS, the sample status will change to “ACC” and the sample will disappear from Main View when they get accepted into the State database. You must uncheck “Hide accepted Samples” to view samples with an “ACC” status.

In CMDP, the sample status will change to “Accepted by State” when the State database pulls the certified sample files from CMDP.

You can also view results immediately on Drinking Water Watch (<https://www.pwss.enr.state.nc.us/NCDWW2/>).

If the status in LDS and CMDP are conflicting or if you have any questions regarding upload status, contact the PWS Section for assistance.

Getting Help:

For help and support with LDS and CMDP, contact:

- Carmalin Walter - Data Processing Branch Head; (919) 707-9085 or carmalin.walter@ncdenr.gov
- Miranda Harper - Bacti, GWR, Nitrate/Nitrite; (919) 707-9092 or miranda.harper@ncdenr.gov
- Turner Morrison - THMs/HAA5s and TOC; (919) 707-9071 or turner.morrison@ncdenr.gov
- Steve Proctor - Asbestos, Inorganics, Radionuclides, SOCs, VOCs; (919) 707-9094 or steve.proctor@ncdenr.gov
- Dustin Rhodes - Lead and Copper and WQPs; (919) 707-9082 or dustin.rhodes@ncdenr.gov

For information about transitioning to using a LIMS system to upload data, contact Eric Chai at (919) 707-9146 or eric.chai@ncdenr.gov

Appendix 4 - System Requirements

The demands on the user's computer system should be minimal due to the fact that the software is web-based. The majority of common computer setups will be able to handle the tasks required for running the application without any upgrades or expenditures.

- 1 GHz processor (32- or 64-bit) or better;
- 1 GB of RAM (32-bit); 2 GB of RAM (64-bit);
- Monitor capable of display resolution of minimum 1024x768 (higher is better);
- 10 GB of available disk space;
- One of the compatible browsers (Internet Explorer 9 or higher, Firefox 16 or higher, Chrome 18 or higher – all available online for free download);
- Mouse or pointing device;
- Access to a printer with drivers: PCL5, PCL5 emulation, or PostScript (PS);
- Broadband internet connection capable of 1.5+ mbps of sustained transfer speeds.

Appendix 5 – New Reporting Fields on Distribution System Samples

In August 2016, several new fields, including “Tap Location”, “Street Address” and “City” were added to State laboratory reporting forms for distribution system samples (Bacteriological, Asbestos, Chlorine Dioxide/Chlorite, Lead and Copper, and TTHM/HAA5). Check boxes were also included on distribution system sample lab forms for denoting whether or not the sample site is “owned or controlled by the water system”, or the sample site is “a daycare or K-12 school”. These new fields were added to collect more complete information about the location of a sample, to aid with compliance determinations, and to better serve information requests from the public, State and federal agencies, and the media.

“Tap Location” field is provided to capture the information on where the tap is located within the sample site. Some examples of values for this field are “indoor tap”, “outside spigot”, or “kitchen sink”.

“City” field is added to distribution sample forms for better geographical information on collected samples. Most of the time, this field will be pre-populated with the city information from the State database, SDWIS. However, for larger water systems that serve several cities, this information must be filled out during sample collection.

Information regarding the sample site being “owned or controlled by water system” field was added to aid data tracking and compliance determinations for the requirements to provide Special Notice under the Public Notification Requirements Rule [see 15A NCAC 18C .1523(c)]. Water systems are required to provide Special Public Notice to residents of a property not owned or controlled by the water system if an individual sample exceeds an action level, MCL (Maximum Contaminant Level), or MRDL (Maximum Residual Disinfectant Level) or is positive for coliform bacteria.

Information regarding the sample site being “a daycare or K-12 school” is included on all distribution sample forms to indicate whether the sample is taken at a daycare or a primary or secondary education institution. This information is particularly important if the lead action level is exceeded.

The following link is to a video made by the Public Water Supply Section that explains the new fields:
https://files.nc.gov/ncdeq/Water%20Resources/files/pws/compliance/DistributionSystemForm_Update2016.wmv

Appendix 6 – Updates

This section of the manual will be reserved to track the changes to the software since the original release. The following is the list of changes since the original August 2013 release.

<u>Date</u>	<u>Description</u>
10/30/2013	Location Code - Location association added (see Fig. 4); “Email it to me instead” file option added (see Fig. 13).
11/07/2013	“Default Disinfectant Used” added to “Add New Batch Samples Screen” (see Fig. 9).
11/15/2013	Select multiple samples for print and delete; information bar added (see Fig. 2).
12/17/2013	Columns for Location Code, Free and Total Chlorine added to Main View (see Fig. 2).
12/23/2013	“Download Selected” button added (see Fig. 2).
12/31/2013	Updated screen shots throughout manual, as necessary; FAQs Section added to Appendices; “Clearing Cache” Section removed from Appendices, as no longer necessary; more caution bullets added; access to User Manual placed under “Help” button (see Fig. 2).
01/15/2014	“My Reports” option added (see Figs. 24 and 25).
12/11/2014	LDS for Chemicals is released to all certified laboratories in the state.
08/02/2016	Bacti, Asbestos, Chlorine Dioxide/Chlorite, Lead and Copper, and TTHM/HAA5 lab forms updated to include new fields including “Location Code”, “Tap Location”, “Street Address”, and “City”. Check boxes also added to the top portion of the form for the collector to denote whether or not the sample site is “owned or controlled by the water system,” or whether of not it is “a daycare or K-12 school.”
01/01/2019	LDS has been modified to Lab Data Submittal 2.0 which uploads XML files into CMDP for sample certification and submission to the State. The Lab-to-State process is no longer used.