

**CRYPTOSPORIDIA, E. COLI, and
TURBIDITY LT2ESWTR LABORATORY
REPORTING INSTRUCTIONS**

for

**PUBLIC WATER SYSTEMS USING SURFACE WATER OR
GROUNDWATER UNDER THE DIRECT INFLUENCE OF
SURFACE WATER (GUDI) SOURCES**

**Technical Guidance Number
XXX-XXXX-XXX**



DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Safe Drinking Water

DOCUMENT NUMBER: XXX-XXXX-XXX

TITLE: Cryptosporidia, E. Coli, and Turbidity LT2ESWTR Laboratory Reporting Instructions for Public Water Systems Using Surface Water or Groundwater Under the Direct Influence of Surface Water (GUDI) Sources

EFFECTIVE DATE: Upon publication of notice as final in the *Pennsylvania Bulletin*

AUTHORITY: Pennsylvania's Safe Drinking Water Act (35 P.S. §721.1 *et seq.*) and regulations at Title 25 Pa. Code Chapter 109

POLICY: It is the policy of the Department of Environmental Protection (DEP) to provide laboratory directors of accredited laboratories and public water supply personnel with the information necessary to properly report *Cryptosporidia*, *E. coli* (enumeration), and turbidity LT2ESWTR monitoring data under the safe drinking water program.

PURPOSE: The purpose of this document is to establish uniform instructions and protocol for implementing the drinking water reporting requirements for *Cryptosporidia*, *E. coli* (enumeration), and turbidity under the LT2ESWTR.

APPLICABILITY: This guidance will apply to all accredited laboratories and public water systems that are required to submit: *Cryptosporidia*, *E. coli* enumeration, and/or Turbidity LT2ESWTR source water monitoring results to DEP.

DISCLAIMER: The policies and procedures outlined in this guidance document are intended to supplement existing requirements. Nothing in the policies or procedures shall affect regulatory requirements.

The policies and procedures herein are not an adjudication or a regulation. There is no intent on the part of DEP to give the rules in these policies that weight or deference. This document establishes the framework within which DEP will exercise its administrative discretion in the future. DEP reserves the discretion to deviate from this policy if circumstances warrant.

PAGE LENGTH: 33 pages

DEFINITIONS: See Title 25 Pa. Code Chapter 109

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SECTION 1: INTRODUCTION

The *Cryptosporidia, E.Coli, and Turbidity LT2ESWTR Laboratory Reporting Instructions for Public Water Systems Using Surface Water or Groundwater Under the Direct Influence of Surface Water (GUDI) Sources* is a technical guidance manual. This manual provides accredited laboratories and public water system (PWS) staff with instructions for reporting *Cryptosporidia, E.coli*, and turbidity monitoring as required by the *Long-term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)* set forth in Subchapter L of Title 25 Pa. Code Chapter 109.

BACKGROUND

The *PA Filter Rule*, published in the *Pennsylvania Bulletin* on March 25, 1989 (19 Pa.B 1289), establishes treatment technique requirements for pathogenic bacteria, viruses and protozoan cysts to protect consumers from the adverse health effects of these contaminants.

Both the *Interim Enhanced Surface Water Treatment Rule (IESWTR)* and the *Long-term 1 LT1ESWTR* rules provided a series of requirements to strengthen the turbidity requirements of the Filter Rule. Both rules also introduced continuous turbidity monitoring of individual filters for systems using conventional or direct filtration. The *LT2ESWTR* introduces source water quality monitoring and additional treatment requirements for higher risk public drinking water systems, to enhance public health protection against pathogenic microbial contaminants, especially *Cryptosporidium*.

For the *LT2ESWTR*, PWSs that use surface water or *GUDI* sources must monitor their sources to determine treatment requirements. PWSs with filtered or unfiltered sources and serving greater than or equal to 10,000 people must perform source sampling for *Cryptosporidia, E. coli*, and turbidity. Small systems (with filtered or unfiltered sources) serving less than 10,000 people must perform source water sampling for *E. coli*, unless the PWS monitors for *Cryptosporidia*, twice a month for 12 months or once a month for 24 months. Other PWSs may be required to monitor source water for *E. coli* under this rule.

Reader's Note: Reporting turbidity data is also required under the PA Filter Rule. However, please note that **filter effluent turbidity** reporting requirements are **not** included in this technical guidance manual. For filter effluent turbidity, please refer to the *Turbidity and LT2ESWTR Reporting Instructions for Public Water Systems Using Filtered Surface Water or Groundwater under the Direct Influence of Surface Water (GUDI) Sources*, DEP ID: 383-3301-106, available on DEP's website at www.elibrary.dep.state.pa.us/dsweb/HomePage. To locate the document, enter the document ID number into the elibrary webpage search window.

GENERAL MONITORING AND REPORTING LT2ESWTR INFORMATION

Drinking water analysis results are entered into the *Pennsylvania Drinking Water Information System (PADWIS)* via the *Drinking Water Electronic Reporting (DWELR)* System. PADWIS is a computerized data management system used by DEP to track drinking water monitoring results. More instructions about reporting through DWELR are available in [Section 3: Electronic Assistance Tools](#) in this technical guidance manual and on DEP's website at www.dep.state.pa.us (enter "DWELR" into the webpage search window). *The Drinking Water Electronic Lab Reporting & WebOAS Registration Form and Instructions* will then be available.

Please read the instructions in this technical guidance manual thoroughly. Failure to monitor, analyze and/or report analytical results correctly may result in the water supplier incurring a violation of the Safe Drinking Water Regulations. Two different DWELR forms apply here. *Cryptosporidia* is reported electronically on the **CRYPTOSPORIDIUM OOCYST** form, while the related LT2 EWSTR *E. coli* and turbidity data are reported on the **SDWA-1 BACTERIOLOGICAL/RESIDUAL DISINFECTANT/TURBIDITY/DBP ANALYSIS** form. Correct use of the forms is explained in [Section 5](#) in this technical guidance manual.

The reporting instructions in this manual pertain to: **source water** monitoring as established by the *PA Filter Rule* and by the *LT2ESWTR* for PWSs using filtered or unfiltered surface water or GUDI sources. The monitoring and reporting requirements described in this manual are in addition to other routine monitoring and reporting requirements for PWSs, and do not supersede those requirements. See the following Table 1 for a general overview of the LT2ESWTR source water monitoring requirements.

Table 1: General *Cryptosporidia* and *E. coli* Source Water Location Monitoring Requirements

<i>Population Size</i>	<i>Cryptosporidia</i>	<i>LT2 E. coli (Enumeration)</i>	<i>LT2 Turbidity</i>
Systems (filtered or unfiltered) serving 10,000 people or more*	Required at the source per Section 109.1202	Required at the source per Section 109.1202	Required at the source per Section 109.1202
Systems serving less than 10,000 people	Required (filtered or unfiltered) at the source if the system decides to monitor for <i>Cryptosporidia</i> in lieu of <i>E.coli</i> monitoring or if required based on raw water <i>E.coli</i> results, per Chapter 109.1202	Required at the source, except if conducting <i>Cryptosporidia</i> monitoring per Chapter 109.1202; however, DEP may approve monitoring for another indicator.	Not required.
<p>Key: *- <i>E. coli</i> and turbidity samples must be paired with <i>Cryptosporidia</i> oocyte samples.</p> <p>Note: Requirements are different for unfiltered water systems in Pennsylvania.</p>			

Refer to [Section 7: *Cryptosporidium* Oocyte and *E.coli* \(Enumeration\) Source Water Monitoring Requirements](#) in this manual for more information about the source water monitoring schedules and frequency reporting requirements. In addition, for a more detailed description of the PWS requirements refer to 25 Pa. Code Chapter 109 Safe Drinking Water Regulations, available on the web at www.pacode.com.

SECTION 2: RESPONSIBILITIES OF THE LABORATORY

Under the provisions of Title 25 *Pa. Code* Chapter 109, Safe Drinking Water Regulations, under the authority of the Pennsylvania Safe Drinking Water Act, it is the responsibility of the accredited laboratory to:

1. Submit the results of analyses performed by the laboratory under the Safe Drinking Water Regulations to DEP in an electronic format acceptable to DEP.
2. Report the results from the source water monitoring no later than 10 days after the end of the first month following the first month when the sample is collected. *Failure to report as required will result in the water supplier incurring a violation for failure to monitor.*
3. Follow the reporting and notification requirements in Title 25 *Pa. Code* Chapters 109 and 252, including reporting circumstances or incidents that could cause a sample to become invalid.
4. Obtain and maintain the DEP and County Health Department (CHD) current after-hours emergency response telephone numbers for each applicable DEP regional and CHD office. DEP and CHD routine business hours and DEP emergency phone numbers are located in [Appendix I](#) and [Appendix II](#), respectively. (Allegheny County Health Department's emergency phone number is: **(412) 678-2243** and Erie County Health Department's emergency phone number is: **(814) 451-6700**).
5. Under Title 25 *Pa. Code* Chapters 109 and 252, notify customers served by the laboratory within 72 hours of the following:
 - a. Failure to renew or DEP denial of renewal of existing accreditation for a category of laboratory accreditation.
 - b. Revocation of accreditation by DEP for the environmental laboratory conducting testing or analysis of drinking water under Title 25 *Pa. Code* Chapter 109.

Information recording who collected and analyzed the samples is to be documented and retained by the laboratory. For the samples that were collected by water system personnel rather than laboratory personnel, the laboratory must retain a copy of the chain of custody.

Additionally, laboratories must retain records, including original handwritten data that would allow reconstruction of all laboratory activities associated with the testing or analysis of environmental samples, for a minimum of 5 years and as required under Title 25 *Pa. Code* Chapters 109 and 252. The records must be complete enough so that assessors can reconstruct the entire analysis and all the activities related to generating the final result using the laboratory's records.

Records of analyses must also be kept by the PWSs as required per Title 25 *Pa. Code* Chapter 109.

Note: Proper laboratory reporting and notification of analytical results to DEP is a condition of a laboratory's accreditation. Failure to properly report results may lead to the revocation of accreditation. Your assistance is critical in regard to accurate and prompt data reporting.

SECTION 3: ELECTRONIC ASSISTANCE TOOLS

The following electronic assistance tools are available from DEP:

SUBSECTION A: DRINKING WATER ELECTRONIC LABORATORY REPORTING (DWELR)

To report electronically, accredited laboratories and public water system (PWS) staff must use the DEP *DWELR*, according to Chapter 109.810 Reporting and notification requirements. This system is a DEP internet web application for accredited laboratories and PWSs upload sample files and/or enter sample results using a web screen entry form. Detailed instructions are contained in the DWELR web application. Entities choosing to upload their data can retrieve the data formats from within DWELR.

The electronic system features allow accredited laboratory or public water supply personnel to:

- Submit data via either upload or data entry.
- Preview the data entered. A submitting entity is allowed to edit and view only the data that it submitted.
- Submit the data *until the 10th (up until midnight)* of the month. On the 11th of each month as required by 25 Pa. Code Chapter 109, all data is cleared from DWELR and passed to the Pennsylvania Drinking Water Information System (PADWIS) for monthly compliance processing.
- View error reports. Upon submittal, the data is checked and an error report is generated that can be used to correct data.
- Correct data and resubmit.

Access is via DEP Greenport: www.depgreenport.state.pa.us. The DWELR registration form and instructions are available on-line at www.elibrary.dep.state.pa.us/dsweb/HomePage. Search for "DWELR". Please contact the DEP Greenport Helpdesk at 717-705-3768 if you need further information about setting up a user account. In addition, contact the DEP Bureau of Safe Drinking Water, Operations and Monitoring Division, PADWIS Section, at 717-787-9633 or 717-772-4018 or ra-padwis@pa.gov, for more information about DWELR.

When reporting electronically, the laboratory must provide the laboratory results to the water supplier. The format used to report these results to the supplier is a decision to be determined mutually by the laboratory and the client.

SUBSECTION B: DWRS AND CONSUMER CONFIDENCE REPORTING SYSTEM

DEP provides the following assistance tools, which can be found on the DEP website at www.drinkingwater.state.pa.us:

- **Drinking Water Reporting System (DWRS):** Provides dynamic reports on *inventory* and *sample* information for water systems from PADWIS. Instructions on how to use DWRS can be accessed from the DEP webpage.
- **Consumer Confidence Reporting System:** Provides *detection* and *violation* information from PADWIS to assist community water systems with the preparation of the annual Consumer Confidence Reports.

SECTION 4: DATA CODES FOR ENTERING MONITORING RESULTS

Table 2 contains contaminant and method codes for LT2ESWTR *Cryptosporidium* and *E. coli* enumeration (e.g., quantitative or bacteriological counts) laboratory analysis results. *LT2 requires E. coli analyses to be quantitative; presence/absence analysis is not acceptable for LT2.*

Table 2: Enumeration Laboratory Method Codes for Reporting *Cryptosporidia* and *E.coli*

<i>Parameter Name</i>	<i>EPA Analysis Method</i>	<i>DEP Method Code</i>	<i>EPA Contaminant Code</i>
<i>Cryptosporidia Oocysts</i>			
<i>Cryptosporidium Oocysts</i>	EPA method 1622 or 1623	320	3015
	EPA method 1623.1	336	
Two-Step Process: Determine presence of Total Coliform and, if present, analyze for <i>E. coli</i>			
<i>E. coli</i>	Membrane Filtration with m-Endo SM 9222B + SM 9222G verification*	323	3014
	SM 9221B + SM 9221F verification (report the Most Probable Number)	327	
	Membrane Filtration with m-TEC SM 9213D/EPA 1103.1	321	
	Membrane Filtration with m-FC SM 9222D + SM 9222G verification*	335	
Simultaneous Detection of Total Coliform and <i>E. coli</i>			
<i>E. coli</i>	Membrane Filtration with MI Agar EPA 1604	324	3014
	MMO-MUG Colilert SM 9223B (report the Most Probable Number)	331	
One Step Enumeration only for <i>E. coli</i>			
<i>E. coli</i>	Membrane Filtration with m-ColiBlue24®	333	3014
	Membrane Filtration with modified m-TEC EPA 1603	322	
<p>Key: SM = Standard Methods. *- The Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) requires NA+MUG verification from m-Endo or m-FC.</p> <p>Notes: Results are reported as density (colonies/100-milliliters or MPN/100-milliliters).</p>			

Turbidity contaminant and method codes are in the following Table 3.

Table 3: Laboratory Method Codes for Reporting Turbidity

<i>Parameter Name</i>	<i>EPA Analysis Method</i>	<i>DEP Method Code</i>	<i>Turbidity code</i>
Turbidity	EPA method 180.1; SM 2130B	001	0100
Key: SM = Standard Methods.			

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SECTION 5: REPORTING INSTRUCTIONS FOR LT2ESWTR *CRYPTOSPORIDIA*, *E. COLI*, AND TURBIDITY

Long-term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) *Cryptosporidia* and *E. coli* (enumeration), and turbidity *source water* reporting requirements and the corresponding reporting forms are listed in Table 4 below.

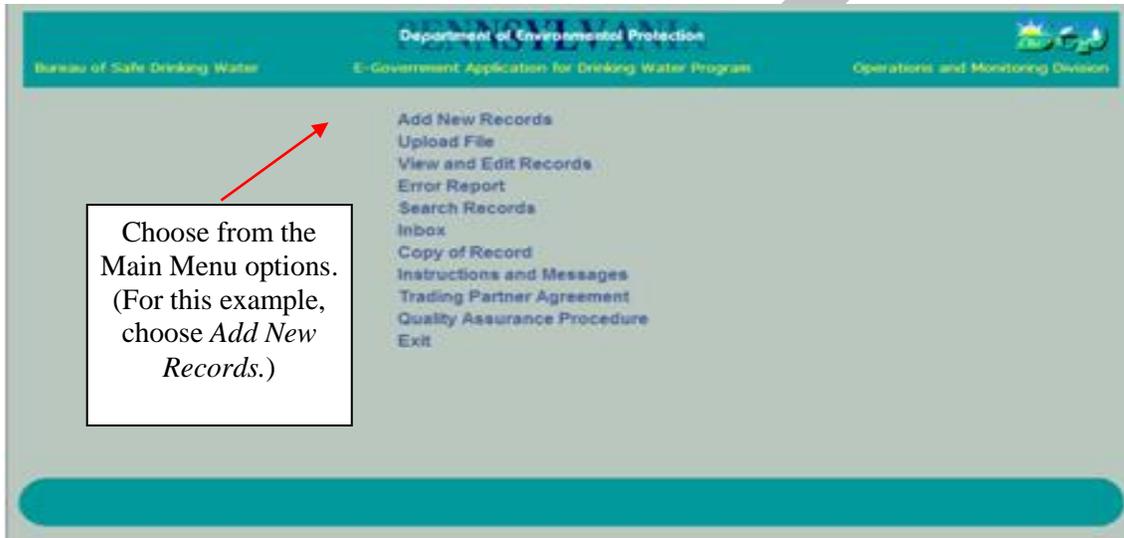
Table 4: Correct DEP DWELR SDWA Reporting Forms for LT2 Source Water Samples

<i>SDWA Form</i>	<i>Parameter</i>
CRYPTOSPORIDIUM OOCYSTS form	<i>Cryptosporidia</i>
SDWA-1 BACTERIOLOGICAL/RESIDUAL DISINFECTANT/TURBIDITY/DBP ANALYSIS form	<i>E.coli</i> enumeration*
SDWA-1 BACTERIOLOGICAL/RESIDUAL DISINFECTANT/TURBIDITY/DBP ANALYSIS form	Turbidity
Key: *- The analysis and reporting is for enumeration per the Long-term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR).	

SUBSECTION A: CRYPTOSPORIDIUM OOCYST FORM; INSTRUCTIONS FOR REPORTING *CRYPTOSPORIDIA*

The CRYPTOSPORIDIUM OOCYST form is used to summarize the results of sampling. The form is electronically submitted through the DEP DWELR on line. See Section 3: Electronic Assistance Tools in this manual for information on how to gain permissions for DWELR. Instructions in detail on how to use DWELR and the electronic forms can be found after logging into DWELR. A screenshot of the CRYPTOSPORIDIUM OOCYST form and descriptions of how the form should be completed follows.

In DEP Greenport, enter *DWELR* and go to the Main Menu:



**CRYPTOSPORIDIUM OOCYSTS FORM FIELD DESCRIPTIONS AND INSTRUCTIONS
FOR REPORTING**

<i>DWELR DATA FIELD</i>	<i>DESCRIPTION/EXPLANATION AND UNITS (if applicable)</i>
1. PWSID	Enter the 7 digit identification number of the public water system (PWS) that applies to the samples. Entering the wrong PWSID number will result in the water supplier not receiving credit for conducting the required monitoring. For all PWS ID numbers, contact the appropriate DEP or CHD office.
PWS Name (only visible in the DWELR <i>Input</i> form)	DWELR automatically enters the PWS name into the DWELR input form; the name will not show up in the View and Edit version of the form.
2. Source ID	Enter the three digit code for source (location) where the sample was collected. Include any leading zeros. Contact DEP if using a blended source sample location.
3. Contaminant ID	Enter '3015' for the Contaminant ID for <i>Cryptosporidium</i> .
4. Analysis method	Enter the PA DEP 3-digit code of the approved analysis method used to analyze the samples. The laboratory must be accredited to perform the method indicated, or the results will be rejected. See Section 4 , Table 2 in this manual for the correct <i>Cryptosporidium</i> accredited method codes.
5. Analysis Date	Enter the date (format MMDDYY) the sample analysis was performed; if the analyses spanned more than 1 day, enter the date the sample analysis result was obtained. Example: For April 16, 2015, enter 041615.
6. Sample Collection Date	Enter the date (format MMDDYY) when the sample was collected. Example: For a sample collected on May 5, 2015, enter 050515.
7. Sample Type	Enter the appropriate letter code that corresponds to the type of sample as follows: R = Raw (source) field sample. Q = Quality control or Matrix sample.

**CRYPTOSPORIDIUM OOCYSTS FORM FIELD DESCRIPTIONS AND INSTRUCTIONS
FOR REPORTING (continued)**

<i>DWELR DATA FIELD</i>	<i>DESCRIPTION/EXPLANATION AND UNITS (if applicable)</i>
8. Concentration Oocysts / Liter	Enter the calculated <i>Cryptosporidium</i> oocysts concentration in oocysts per liter. See the equation that is used to calculate the concentration in Section 8 , Case Example #1.
9. Sample Volume Filtered	Enter the sample volume that was filtered to the nearest 0.25 liters.
10. Number of <i>Cryptosporidium</i> Oocysts Counted	Enter the enumeration (total counts or number) of <i>Cryptosporidium</i> Oocysts in 10 liters.
11. Was 100% of filtered volume examined?	Enter 'Y' for yes or 'N' for no. Y = 100% of the filtered volume was examined. N = Less than 100% of the filtered volume was examined.
12. Number of Filters Used	<i>ONLY</i> enter data (number) if sample volume filtered is less than 10 liters or if less than 100% of the filtered volume was examined (question 11 would be answered "No"). Enter the number of filters used.
13. Packed Pellet Volume	<i>ONLY</i> enter data (volume) if sample volume filtered is less than 10 liters or if less than 100% of the filtered volume was examined (question 11 would be answered "No"). Enter the total liters of packed pellet volume.
14. Resuspended Concentrate / Total Volume	An entry is <i>ONLY</i> required if less than 100% of the filtered volume was examined. Total volume resuspended concentrate is entered in liters. Positive decimal places are permitted.

**CRYPTOSPORIDIUM OOCYSTS FORM FIELD DESCRIPTIONS AND INSTRUCTIONS
FOR REPORTING (continued)**

DWELR DATA FIELD	DESCRIPTION/EXPLANATION AND UNITS (if applicable)
15. Resuspended Concentrate / Volume Processed Through Immunomagnetic Separation	An entry is ONLY required if less than 100% of filtered volume was examined. Enter the volume processed through Immunomagnetic Separation in liters. Positive decimal places are permitted.
16. Matrix Spike Samples / Sample Volume Spiked	ONLY enter information if <i>Cryptosporidium</i> Oocysts matrix spikes were performed. Enter the sample volume spiked in liters.
17. Matrix Spike Samples / Estimated Number of Oocysts Spiked	ONLY enter information if <i>Cryptosporidium</i> Oocysts matrix spikes were performed. Enter the (estimated) number of <i>Cryptosporidium</i> Oocysts spiked.
18. Matrix Spike Samples / Percent Recovered	ONLY enter information if <i>Cryptosporidium</i> Oocysts matrix spikes were performed. Enter the number that represents the percent of the matrix spike that was recovered. Example: If 95% of the <i>Cryptosporidium</i> Oocysts was recovered, then enter 95.
19. Lab ID	Enter the 5 digits ID of the Pennsylvania Public Drinking Water Accredited Laboratory that performed the analysis.
20. Sample ID	For Field samples enter the Laboratory Sample ID used by laboratory. For Matrix samples enter the Laboratory Sample ID of the associated Field Sample.

SUBSECTION B: SDWA-1 FORM; INSTRUCTIONS FOR REPORTING *E. COLI* AND TURBIDITY

The **SDWA-1 BACTERIOLOGICAL/RESIDUAL DISINFECTANT/TURBIDITY/DBP ANALYSIS** form is submitted electronically through the DEP *DWELR* on-line pages. See [Section 3: ELECTRONIC ASSISTANCE TOOLS](#) in this manual for information on how to gain access to DWELR. Access to DWELR is via DEP Greenport: www.depgreenport.state.pa.us. Instructions on how to use the electronic SDWA forms are found after logging into DWELR. A screenshot of the SDWA-1 form and descriptions of how the form should be completed are on the following pages.

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Note: Start entries on the first line; do not skip to the second line or the data might not enter properly.

SAFE DRINKING WATER ACT SDWA-1

PENNSYLVANIA
Department of Environmental Protection



Bureau of Safe Drinking Water

E-Government Application for Drinking Water Program

Operations and Monitoring Division

WARNING! Closing the screen, moving between forms, or clicking the Browser BACK button without first Submitting data you've entered could result in lost data. Please click at the bottom of the screen to save your data to the DEP Official Record.

SAFE DRINKING WATER ACT

SDWA 1 - BACTERIOLOGICAL / RESIDUAL DISINFECTANT / TURBIDITY / DBP ANALYSIS

SDWA-1

Current Lab Certifications			Contaminants not Requiring Certification										
	PWSID	PWS Name	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Note: Failure to enter the correct Public Water System ID will result in the water supplier not receiving credit for conducting the required monitoring.

**DWELR SDWA-1 DATA FORM DESCRIPTIONS AND INSTRUCTIONS
FOR REPORTING *E. COLI* AND TURBIDITY**

DWELR DATA FIELD	DESCRIPTION/EXPLANATION AND UNITS (if applicable)
1. PWSID	Enter the 7 digit identification number of the public water system (PWS) that applies to the samples. Entering the wrong PWSID number will result in the water supplier not receiving credit for conducting the required monitoring. For all PWS ID numbers, contact the appropriate DEP or CHD office.
PWS Name	The system automatically enters the PWS name.
2. Contam ID	Enter the 4-digit code DEP/PADWIS contaminant identification codes. The code for <i>E. coli</i> enumeration is '3014' and the code for turbidity is '0100'.
3. Analysis Method	Enter the 3-digit DEP/PADWIS code for the approved analysis method used to analyze the sample. See Section 4 , Tables 2 and 3 in this manual for the correct accredited method codes.
4. Result	Enter <i>E.coli</i> enumeration in counts per 100 milliliters (ml). Enter turbidity in Nephelometric Turbidity Units (NTU).
5. Analysis Date	Enter the date (format MMDDYY) the sample analysis was performed; if the analyses spanned more than one (1) day, enter the date the sample analysis result was obtained. Example: For April 7, 2015, enter 040715.
6. Location ID 1	Enter the 3-digit ID in the Location ID 1 (Location ID, Entry Point number, or Plant ID number) column. Note: DEP or CHD assigned source ID numbers, which always begin with "3", must be entered in this field (e.g., 001).

**DWELR SDWA-1 DATA FORM DESCRIPTIONS AND INSTRUCTIONS
FOR REPORTING *E. COLI* AND TURBIDITY (continued)**

DWELR DATA FIELD	DESCRIPTION/EXPLANATION AND UNITS (if applicable)
7. Location ID 2	If using a blended source sample location, enter the 3-digit ID in Location ID2 for the second source ID. Otherwise leave this column blank.
8. Sample Date	Enter the date (format MMDDYY) when the sample was collected. Example: For a sample collected on April 5, 2015, enter 040515.
9. Sample Type	Enter the appropriate letter code that corresponds to the type of sample collected as follows: 'R' = raw water. Note: Failure to report analysis results with the correct Sample Type Codes will result in the water supplier receiving a violation for failure to monitor.
10. Sample Time	Enter the time of day at which the sample was collected. All times must be in military time. This field must be completed in order for the results to be accepted. If the exact time is not known, enter an approximate time. Examples: 5:15 p.m. enter as 1715 and 8:30 a.m. enter as 0830.
11. Lab ID	Enter the 5 digit Pennsylvania Public Drinking Water Accredited Laboratory ID for the laboratory that performed the analysis.
12. Sample ID	This field may be left blank or enter the Sample ID used by laboratory.

SECTION 6: INSTRUCTIONS FOR SDWA CORRECTION FORMS

Data are entered electronically into DWELR via the SDWA forms. Refer to [Section 3](#) in this manual for more information. Laboratory reporting instructions are available at www.elibrary.dep.state.pa.us/dsweb/HomePage. Search for “SDWA Reporting”.

Note: The SDWA correction forms are for the correction of *previously* submitted data no longer in DWELR. Omitted sample results should be submitted through DWELR.

The two permitted methods to correct previously submitted data are as follows:

1. A copy of a DWELR printed report of the original submission may also be used for corrections. This is currently the only procedure available for *Cryptosporidia*; see the example in [Appendix III](#) in this document. If using a DWELR printout, strikeout the incorrect information and write the correct information on the form; initial and date the correction. (Note: Do not strikeout the incorrect information heavily so that the original information cannot be read or faxed. Do not use a highlighter on forms to be faxed or copied.)

The following information, which can be handwritten on the form, also must be included:

- The reason for the correction
 - The name of the laboratory, the authorizing personnel and the date of the corrected submission
2. For *E. coli* and turbidity reporting, an SDWA-1 Correction form is shown in [Appendix IV](#) in this document (example only). To download the forms, click on the link in the DEP e-library at <http://www.elibrary.dep.state.pa.us/dsweb/HomePage>. Search for ‘SDWA Corrections’. Enter all the correct information to the form as it should have been submitted. This information is required in order to identify the record. In the ‘Submitted’ sections, only the incorrect information should be entered.

Distribute SDWA corrections forms as follows:

ORIGINAL COPY - Send a copy to DEP’s central office at the following mailing or direct carrier service (UPS, FED Ex) address.

USPS

PA DEP SDWA MONITORING DATA
10TH FLOOR RCSOB
PO BOX 8467
HARRISBURG PA 17105-8467

UPS or FED Ex

PA DEP SDWA MONITORING DATA
10TH FLOOR RCSOB
400 MARKET STREET
HARRISBURG PA 17101

Corrections may be submitted by fax if authorized by DEP Safe Drinking Water central office or field personnel. Obtain the fax number directly from them. Only upon specific request by DEP field personnel should corrections be sent directly to the field office instead of the central office. In this case, a copy does not need to be sent to central office.

SECOND COPY - Send a copy to the water supplier.

THIRD COPY - Retain a copy for the laboratory’s records.

SECTION 7: CRYPTOSPORIDIUM OOCYTE AND E.COLI (ENUMERATION) SOURCE WATER MONITORING REQUIREMENTS

This section contains the *Cryptosporidium* oocyte, *E.coli* (enumeration), and turbidity monitoring requirements for surface water or GUDI source water. Table 5 contains the Round 2 source water monitoring schedule.

Table 5: Required *Cryptosporidia*, *E.coli*, and Turbidity Source Water Monitoring Schedule (Round 2)

<i>Population Size</i>	<i>Cryptosporidia, E.coli, and Turbidity Required Monitoring Schedule</i>
Greater than or equal to 100,000 people	Begin the second round of source water <i>Cryptosporidia</i> * monitoring at least 6 years after submitting the initial bin classification but no later than the month beginning April 1, 2015.
50,000 up to 99,999 people	Begin the second round of source water <i>Cryptosporidia</i> * monitoring at least 6 years after submitting the initial bin classification but no later than the month beginning October 1, 2015.
10,000 up to 49,999 people	Begin the second round of source water <i>Cryptosporidia</i> * monitoring at least 6 years after submitting the initial bin classification but no later than the month beginning October 1, 2016.
Less than 10,000 people <i>AND</i> also monitoring for <i>E.coli</i> (enumeration)	Begin the second round of source water monitoring at least 6 years after submitting the initial bin classification but no later than the month beginning October 1, 2017.
Less than 10,000 people <i>AND</i> also monitoring for <i>Cryptosporidia</i> :	Begin the second round of source water monitoring at least 6 years after submitting the initial bin classification but no later than the month beginning April 1, 2019.
<p>Key: *- <i>Cryptosporidium</i> oocyte samples in filtered water systems serving 10,000 or more people must be paired with <i>E.coli</i> (enumeration) and turbidity samples, as required per Title 25 <i>Pa. Code</i> §109.1202(a)(1). Requirements are different for unfiltered water systems per Title 25 <i>Pa. Code</i> §109.1202(a)(2).</p> <p>Note: Systems with new sources should consult the New Source Sampling guidance for the required Round 1 monitoring schedules.</p>	

The following Table 6 contains the monitoring frequency for *Cryptosporidia*, *E. coli*, and turbidity.

Table 6: Required Monitoring Frequency for *Cryptosporidia*, *E.coli*, and Turbidity

<i>Population Size</i>	<i>Cryptosporidium Oocyte Monitoring Frequency</i>	<i>E.coli and Turbidity Monitoring Frequency</i>	<i>Number of Required Samples</i>
Greater than or equal to 10,000 people (Filtered or unfiltered systems)*	<i>Cryptosporidia</i> Monitoring is required monthly for 24 months.	<i>E.coli</i> and turbidity monitoring is required monthly for 24 months.	1 sample is taken per source (unless the system has blended ⁺ sources) and/or per the public water system's monitoring plan.
Less than 10,000 people (Filtered systems)	If the public water system chooses to monitor for <i>Cryptosporidia</i> or triggers the <i>E.coli</i> threshold, monitoring is 2 weeks for 12 months or monthly for 24 months. The <i>E.coli</i> threshold is reached when the numbers exceed the annual mean concentration of 100 <i>E.coli</i> counts per 100 milliliters.	If the system samples for <i>E. coli</i> , monitoring is once every 2 weeks for 12 months. ** Turbidity sampling is not required for (filtered or unfiltered) systems serving less than 10,000 people.	1 sample taken per source (unless the system has blended ⁺ sources) and/or per the public water system's monitoring plan.
<p>Key:</p> <p>*- <i>Cryptosporidium</i> oocyte samples in filtered water systems serving 10,000 or more people must be paired with <i>E.coli</i> (enumeration) and turbidity samples, as required per Title 25 <i>Pa. Code</i> §109.1202(a)(1). Requirements are different for unfiltered water systems per Title 25 <i>Pa. Code</i> §109.1202(a)(2).</p> <p>+ - Contact DEP for sampling requirements for blended sources.</p> <p>** - As required per Title 25 <i>Pa. Code</i> §109.1202(a)(5).</p>			

SECTION 8: CASE EXAMPLE

Case example #1: ABC Water Authority

ABC Water Authority (PWS ID 2345678) serves a population of 102,000 and uses surface water sources; the plant filters the surface water. Under LT2ESWTR, the water system staff must collect required samples from its raw water sources for *Cryptosporidia* analysis monthly for 24 months beginning in April 2015. Staff must also collect *E.coli* enumeration samples and turbidity samples at the same time as the *Cryptosporidia* sample.

Cryptosporidia and *E.coli* samples were collected and analyzed using accredited methods in April 2015. See [Section 4](#), Table 2: Enumeration Laboratory Codes for Reporting *Cryptosporidia* and *E.coli* in this manual for the reporting codes. During the *Cryptosporidia* oocyst laboratory analysis, 11.0 liters of raw water were filtered, and 0.005 liters (5 milliliters) of the resuspended total volume of 0.005 liters (5 milliliters) were examined. Examination yielded 25 *Cryptosporidia* oocysts. Therefore, the following equation is used to calculate the concentration per liter, and the final result is 2.27 Oocysts/liter:

$$\frac{\text{Oocysts counted}}{\text{Sample volume filtered} \times \left(\frac{\text{Resuspended processed volume}}{\text{Resuspended total volume}} \right)} \quad \text{And} \quad \frac{25 \text{ Oocysts}}{11.0 \text{ liters} \times \left(\frac{0.005 \text{ liters}}{0.005 \text{ liters}} \right)} = \frac{25 \text{ Oocysts}}{(11.0 \text{ liters} \times 1)} = 2.27 \text{ Oocysts}$$

In addition a quality control spiked sample was run (sample type “Q”). The *Cryptosporidia* result is entered into DWELR via the **SDWA Cryptosporidium Oocyte** form as follows:

PENNSYLVANIA Department of Environmental Protection Bureau of Safe Drinking Water E-Government Application for Drinking Water Program Operations and Monitoring Division																						
SAFE DRINKING WATER ACT																						
VIEW and EDIT RECORDS																						
Click here for a Printer Friendly Version View a Monitoring Calendar																						
CRYPTOSPORIDIUM OOCYSTS																						
<input type="checkbox"/>	PWSID	Source ID	Contaminant ID	Analysis Method	Analysis Date	Sample Collection Date	Sample Type	Concentration Oocysts / Liter	Sample Volume Filtered	Number of Cryptosporidium Oocysts Counted	Was 100% of filtered volume examined?	Number of Filters Used	Packed Pellet Volume	Resuspended Concentrate		Matrix Spike Samples			Lab ID	Sample ID		
														Total Volume	Volume Processed Through Immunomagnetic Separation	Sample Volume Spiked	Estimated Number of Oocysts Spiked	Percent Recovered				
	Sort					Sort																
<input type="checkbox"/>	2345678	001	3015	336	041715	040515	R	2.27	11.0	23	Y										30223	1
<input type="checkbox"/>	2345678	001	3015	336	041715	040515	Q	6.05	10.75	65	Y						10.75	100	42.0		30223	1

Note: The Packed Pellet Volume and the Resuspended Concentration fields would be left blank for the “Raw” sample because the sample volume filtered is 10 liters or more, plus all of the filtered volume was examined. (See [Section 4](#) in this manual for the form field entry requirements.)

A raw water turbidity sample was also collected at the same time and analyzed.

E.coli and turbidity sample results for Example #1 are reported on the SDWA-1 form as shown below:

PENNSYLVANIA Department of Environmental Protection Bureau of Safe Drinking Water E-Government Application for Drinking Water Program Operations and Monitoring Division													
SAFE DRINKING WATER ACT VIEW and EDIT RECORDS Click here for a Printer Friendly Version View a Monitoring Calendar													
SDWA-1													
Current Lab Certifications						Contaminants not Requiring Certification							
<input type="checkbox"/>	PWSID	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
<input type="checkbox"/>	Sort			Sort Entry Point Chlorine				Sort			Sort		
<input type="checkbox"/>	2345678	0100	001	50.0	040515	001		040515	R	0800	30223	1	STUDENTE_537
<input type="checkbox"/>	2345678	3014	333	20.0	040615	001		040515	R	0800	30223	1	STUDENTE_536

Case example #2: 123 Water Company

The 123 Water Company (PWS ID 1234567) serves a population of 5,000 and uses a surface water source. The public water system (PWS) is required to collect *E.coli* enumeration samples from the raw water source *every 2 weeks for 12 months* beginning in October 2017. Currently, turbidity sampling for the source raw water is not required.

The first sample was collected and analyzed using a DEP accredited *E.coli* enumeration method. See Table 2: Enumeration Laboratory Codes for Reporting *Cryptosporidia* and *E.coli* in this manual. The *E.coli* enumeration samples results are entered into DWELR via the ***SDWA-1 Bacteriological/Turbidity/Trihalomethane Data form***:

SAFE DRINKING WATER ACT													
VIEW and EDIT RECORDS													
Click here for a Printer Friendly Version													
View a Monitoring Calendar													
SDWA-1													
Current Lab Certifications						Contaminants not Requiring Certification							
<input type="checkbox"/>	PWSID	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
<input type="checkbox"/>	1234567	3014	323	80.0	100217	001		100117	R	1000	30223	2Ecoli	STUDENTE_539

Note: Method 323 is a “Two-step Process” method. For this type of method, even if the result for coliform is zero during the analysis, the result would be entered under code “3014” for *E.coli*.

Case example #3: XYZ Borough Water Company

The XYZ Water Company (PWS ID 3456789) serves a population of 9,500 and uses a surface water source. The public water system (PWS) is required to collect *E.coli* (enumeration) samples from the source raw water *either every 2 weeks for 12 months* beginning in October 2017.

For this case example, one sample was collected in November 2017. The sample was analyzed using a DEP accredited *E.coli* enumeration method. The sample result yielded greater than 100 *E.coli* per 100 milliliters. Two other samples had previously been taken and reported in October that year; the results are also greater than 100 *E.coli* per 100 milliliters. ***If the annual average exceeds 100 E.coli per 100 milliliters, the results will activate the “trigger level”, and the PWS will be required to sample for Cryptosporidia. For a case such as this scenario, where preliminary E. coli results are high, the PWS staff should consider rewriting the monitoring plan to include Cryptosporidia.***

E.coli sample results are entered into PADWIS via the ***SDWA-1 Bacteriological/Turbidity/Trihalomethane Data*** form:

SAFE DRINKING WATER ACT													
VIEW and EDIT RECORDS													
Click here for a Printer Friendly Version													
View a Monitoring Calendar													
SDWA-1													
Current Lab Certifications						Contaminants not Requiring Certification							
<input type="checkbox"/>	PWSID	Contam ID	Analysis Method	Result	Analysis Date	Location ID 1	Location ID 2	Sample Date	Sample Type	Sample Time	Lab ID	Sample ID	Record ID
	Sort			Sort	Sort			Sort			Sort		
<input type="checkbox"/>	3456789	3014	331	105.0	110215	001		110115	R	0900	30223	100Ecoli	STUDENTE_540

APPENDIX I: DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) AND COUNTY HEALTH DEPARTMENT (CHD) OFFICES CONTACT LIST-Revised 2015

County	Address	Telephone #
Adams	York District Office 150 Roosevelt Ave., Ste. 200, York, PA 17401	717-771-4481
Allegheny	Allegheny County Health Department 3901 Penn Ave., Bldg. 5, Pittsburgh, PA 15224	412-578-8047
Armstrong	New Stanton District Office 131 Broadview Rd., New Stanton, PA 15672	724-925-5500
Beaver	Beaver Falls District Office 715 15 th St., Beaver Falls, PA 15010	724-847-5271
Bedford	Altoona District Office 3001 Fairway Dr., Altoona, PA 16602	814-946-7292
Berks	Reading District Office 1005 Cross Roads Blvd., Reading, PA 19605	610-916-0100
Blair	Altoona District Office 3001 Fairway Dr., Altoona, PA 16602	814-946-7292
Bradford	Mansfield District Office 600 Gateway Dr., Mansfield, PA 16933	570-662-0830
Bucks	Southeast Regional Office 2 E. Main St., Norristown, PA 19401	484-250-5980
Butler	New Castle District Office 121 N. Mill St., New Castle, PA 16101	724-656-3160
Cambria	Cambria District Office 286 Industrial Park Rd., Ebensburg, PA 15931	814-472-1900
Cameron	Moshannon District Office 186 Enterprise Dr., Philipsburg, PA 16866	814-342-8200
Carbon	Pottsville District Office 5 W. Laurel Blvd., Pottsville, PA 17901	570-621-3118
Centre	Moshannon District Office 186 Enterprise Dr., Philipsburg, PA 16866	814-342-8200
Chester	Norristown Regional Office 2 E. Main St., Norristown, PA 19401	484-250-5980
Clarion	Knox District Office P.O. Box 669, Knox, PA 16232	814-797-1191
Clearfield	Moshannon District Office 186 Enterprise Dr., Philipsburg, PA 16866	814-342-8200
Clinton	Moshannon District Office 186 Enterprise Dr., Philipsburg, PA 16866	814-342-8200
Columbia	Sunbury District Office 309 N. 5 th St., Ste D, Sunbury, PA 17801	570-988-5500
Crawford	Northwest Regional Office 230 Chestnut St., Meadville, PA 16335	814 -332-6899
Cumberland	York District Office 150 Roosevelt Ave., Ste. 200, York, PA 17401	717-771-4481
Dauphin	Southcentral Regional Office 909 Elmerton Ave., Harrisburg, PA 17110	717-705-4708
Delaware	Southeast Regional Office 2 E. Main St., Norristown, PA 19401	484-250-5980
Elk	Warren District Office 321 N. State St., North Warren, PA 16365	814-723-3273

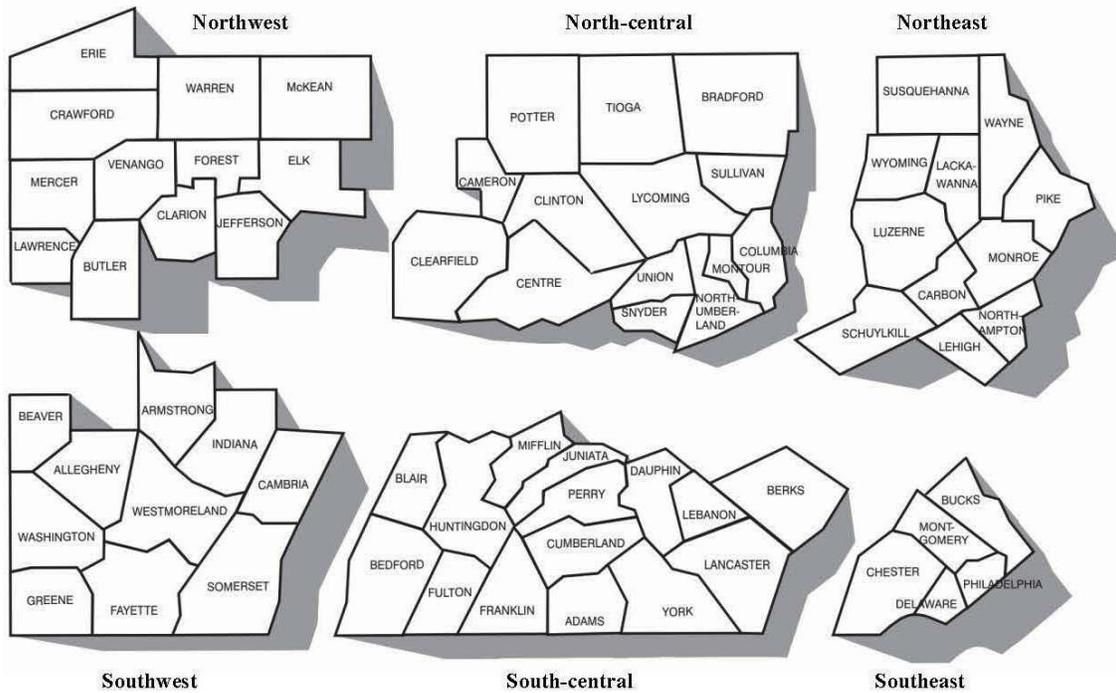
**APPENDIX I: DEPARTMENT AND ENVIRONMENTAL PROTECTION (DEP)
AND COUNTY HEALTH DEPARTMENT (CHD) OFFICES CONTACT LIST-Revised 2015,**
continued

County	Address		Telephone #
Erie	<i>For Community & Nontransient PWS:</i>	<i>For Transient PWS:</i>	Warren: 814-723-3273
Note: address differs depending on system type	Warren District Office 321 N. State St. North Warren, PA 16365	Erie County Health Dept. Drinking Water Program 606 W. Second St., Erie, PA 16507	Erie CHD: 814-451-6700
Fayette	California District Office 25 Technology Dr., Coal Center, PA 15423		724-769-1100
Forest	Warren District Office 321 N. State St., North Warren, PA 16365		814-723-3273
Franklin	York District Office 150 Roosevelt Ave., Ste. 200, York, PA 17401		717-771-4481
Fulton	York District Office 150 Roosevelt Ave., Ste. 200, York, PA 17401		717-771-4481
Greene	California District Office 25 Technology Dr., Coal Center, PA 15423		724-769-1100
Huntingdon	Altoona District Office 3001 Fairway Dr., Altoona, PA 16602-4473		814-946-7292
Indiana	Cambria District Office 286 Industrial Park Rd., Ebensburg, PA 15931-4119		814-472-1900
Jefferson	Knox District Office P.O. Box 669, Knox, PA 16232		814-797-1191
Juniata	Southcentral Regional Office 909 Elmerton Ave., Harrisburg, PA 17110		717-705-4708
Lackawanna	Scranton District Office 321 Spruce St., Ste. 300, Scranton, PA 18503		570-963-4521
Lancaster	Lancaster District Office 1661 Old Philadelphia Pike, Lancaster, PA 17602		717-299-7601
Lawrence	New Castle District Office 121 N. Mill St., New Castle, PA 16101		724-656-3160
Lebanon	Lancaster District Office 1661 Old Philadelphia Pike, Lancaster, PA 17602		717-299-7601
Lehigh	Bethlehem District Office 4530 Bath Pike, Bethlehem, PA 18017		610-861-2070
Luzerne	Northeast Regional Office 2 Public Square, Wilkes-Barre, PA 18701-1915		570-826-2511
Lycoming	Northcentral Regional Office 208 W. Third St., Ste. 101, Williamsport, PA 17701		570-327-0540
McKean	Warren District Office 321 N. State St., North Warren, PA 16365		814-723-3273
Mercer	<i>Southern Mercer County:</i>	<i>Northern Mercer County:</i>	New Castle: 724-656-3160
	New Castle District Office 121 N. Mill St. New Castle, PA 16101	Northwest Regional Office 230 Chestnut St., Meadville, PA 16335	Meadville: 814 -332-6899
Mifflin	Altoona District Office 3001 Fairway Dr., Altoona, PA 16602-4473		814-946-7292
Monroe	Pocono District Office 2174B Route 611, Swiftwater, PA 18370		570-895-4040
Montgomery	Southeast Regional Office 2 E. Main St., Norristown, PA 19401		484-250-5980

**APPENDIX I: DEPARTMENT AND ENVIRONMENTAL PROTECTION (DEP)
AND COUNTY HEALTH DEPARTMENT (CHD) OFFICES CONTACT LIST-Revised 2015,**
continued

County	Address	Telephone #
Montour	Sunbury District Office 309 N. 5 th St., Ste. D, Sunbury, PA 17801	570-988-5500
Northampton	Bethlehem District Office 4530 Bath Pike, Bethlehem, PA 18017	610-861-2070
Northumberland	Sunbury District Office 309 N. 5 th St., Ste. D, Sunbury, PA 17801	570-988-5500
Perry	Southcentral Regional Office 909 Elmerton Ave., Harrisburg, PA 17110	717-705-4708
Philadelphia	Southeast Regional Office 2 E. Main St., Norristown, PA 19401	484-250-5980
Pike	Pocono District Office 2174B Route 611, Swiftwater, PA 18370	570-895-4040
Potter	Mansfield District Office 600 Gateway Dr., Mansfield, PA 16933	570-662-0830
Schuylkill	Pottsville District Office 5 W. Laurel Blvd., Pottsville, PA 17901-2454	570-621-3118
Snyder	Sunbury District Office 309 N. 5 th St., Ste. D, Sunbury, PA 17801	570-988-5500
Somerset	Cambria District Office 286 Industrial Park Rd., Ebensburg, PA 15931-4119	814-472-1900
Sullivan	Northcentral Regional Office 208 W. Third St., Ste. 101, Williamsport, PA 17701	570-327-0540
Susquehanna	Scranton District Office 321 Spruce St., Ste. 300, Scranton, PA 18503	570-963-4521
Tioga	Mansfield District Office 600 Gateway Dr., Mansfield, PA 16933	570-662-0830
Union	Sunbury District Office 309 N. 5 th St., Ste. D, Sunbury, PA 17801	570-988-5500
Venango	Northwest Regional Office 230 Chestnut St., Meadville, PA 16335	814 -332-6899
Warren	Warren District Office 321 N. State St., North Warren, PA 16365	814-723-3273
Washington	Beaver Falls District Office 715 15 th St., Beaver Falls, PA 15010	724-847-5271
Wayne	Scranton District Office 321 Spruce St., Ste. 300, Scranton, PA 18503	570-963-4521
Westmoreland	New Stanton District Office 131 Broadview Rd., New Stanton, PA 15672	724-925-5500
Wyoming	Northeast Regional Office 2 Public Square, Wilkes-Barre, PA 18701-1915	570-826-2511
York	York District Office 150 Roosevelt Ave., Ste. 200 York, PA 17401	717-771-4481

**APPENDIX II: DEPARTMENT OF ENVIRONMENTAL PROTECTION
FIELD OPERATIONS REGIONAL OFFICES AND EMERGENCY PHONE NUMBERS**



DEP Regional Offices

Northwest Region

230 Chestnut St.
Meadville, PA 16335-3481
Main Telephone: 814-332-6945
24-Hour Emergency: 800-373-3398

Counties: Butler, Clarion, Crawford, Elk, Erie, Forest, Jefferson, Lawrence, McKean, Mercer, Venango and Warren

Southwest Region

400 Waterfront Drive
Pittsburgh, PA 15222-4745
Main Telephone: 412-442-4000
24-Hour Emergency: 412-442-4000

Counties: Allegheny, Armstrong, Beaver, Cambria, Fayette, Greene, Indiana, Somerset, Washington and Westmoreland

North-central Region

208 W. Third St., Suite 101
Williamsport, PA 17701-6448
Main Telephone: 570-327-3636
24-Hour Emergency: 570-327-3636

Counties: Bradford, Cameron, Clearfield, Centre, Clinton, Columbia, Lycoming, Montour, Northumberland, Potter, Snyder, Sullivan, Tioga and Union

South-central Region

909 Elmerton Ave.
Harrisburg, PA 17110-8200
Main Telephone: 717-705-4700
24-Hour Emergency: 866-825-0208

Counties: Adams, Bedford, Berks, Blair, Cumberland, Dauphin, Franklin, Fulton, Huntingdon, Juniata, Lancaster, Lebanon, Mifflin, Perry and York

Northeast Region

2 Public Square
Wilkes-Barre, PA 18701-1915
Main Telephone: 570-826-2511
24-Hour Emergency: 570-826-2511

Counties: Carbon, Lackawanna, Lehigh, Luzerne, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne and Wyoming

Southeast Region

2 E. Main St.
Norristown, PA 19401-4915
Main Telephone: 484-250-5900
24-Hour Emergency: 484-250-5900

Counties: Bucks, Chester, Delaware, Montgomery and Philadelphia

For the most recent emergency numbers, see the DEP webpages: www.dep.state.pa.us.

APPENDIX III: SDWA-1 DATA CORRECTION FORM

Click on the form number to download [3900-FM-BSDW0143](#).

3900-FM-BSDW0143 3/2013



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

**BACTERIOLOGICAL / RESIDUAL DISINFECTANT /
TURBIDITY / DBP ANALYSIS**

**SDWA-1
CORRECTION**

Reason for Correction: _____

White Areas: Enter the complete information with the correct information. **Shaded Areas:** Enter the information which was reported incorrectly. Enter only the data which needs to be changed.

PWS Name:	Reported PWS Name:	CONTAMINANT NAME	
Address: _____	Address: _____		
Phone:	Phone:		
PWS ID:	PWS ID:	CONTAM ID:	CONTAM ID:

	ANALYSIS			LOCATION ID 1	LOCATION ID 2	SAMPLE			
	METHOD	RESULT (Incl. Decimal)	MMDDYY	(Loc, EP or Plant)	(Individual Filter)	MMDDYY	TYPE	TIME	SAMPLE ID
CORRECT DATA									
SUBMITTED DATA									
CORRECT DATA									
SUBMITTED DATA									
CORRECT DATA									
SUBMITTED DATA									
CORRECT DATA									
SUBMITTED DATA									

LAB. NAME: _____	PHONE: _____	LAB ID
APPROVED BY: _____	DATE: _____	

APPENDIX IV: CRYPTOSPORIDIUM OOCYST DWELR FORM FOR CORRECTIONS

Example of printer-friendly version of an original submitted form with corrections:

From Lab ID 30223, changes for the *Cryptosporidium* oocyst analysis performed for PWSID 1234567 on February 1, 2015 are enclosed.

The *reason for the changes* were noted on the *printed version of the original submitted DWLR form*.

The *form was signed, dated, and faxed* to the DEP office.

DEP office, please correct the following changes as *handwritten on the original form* below:

1234567:																					
CRYPTO																					
PWSID	Source ID	Contam ID	Contam	Analysis Meth	Analysis Date	Sample Date	Sample Type	Concentration Oocysts / Liter	Sample Volume Filtered	Num of Crypto Oocysts Counted	Was 100 per of filtered vol examined	Num of Filters Used	Packed Pellet Vol	Resuspended Concentrate		Matrix Spike Samples			Lab ID	Sample ID	Record ID
														Total Vol	Vol Processed Through Immunomagnetic Separation	Sample Volume Spiked	Estimated Num of Oocysts Spiked	Percent Recovered			
1234567	001	3015	CRYPTOSPORIDIUM	320	020115	012015	R	0.2	10.0	2	Y								30223		

Reason for Correction: Data entry error
 John Q. HabTech - February 15, 2015
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