



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

DEVAL L. PATRICK
Governor

MAEVE VALLELY BARTLETT
Secretary

DAVID W. CASH
Commissioner

DATE: 12/9/2014

MWRA
100 First Avenue
Boston (MWRA), MA 02129-0000

Re: City/Town: Boston (MWRA)
PWS Name: MWRA
PWSID # 6000000
Program: LT2ESWTR (Second Round)
Schedule 1 system

Dear Public Water Supplier:

The Massachusetts Department of Environmental Protection, Drinking Water Program (MassDEP/DWP), is responsible for the implementation of the Federal Safe Drinking Water Act Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR). The regulations for this rule are Massachusetts Drinking Water Regulations 310 CMR 22.20G. The purpose of the LT2ESWTR is to improve control of microbial pathogens in drinking water, specifically the protozoan *Cryptosporidium*, and address risk trade-offs with disinfection byproducts. Under this rule, all surface water systems and groundwater under the direct influence of surface water (GWUDI) systems must provide additional treatment for the removal or deactivation of *Cryptosporidium* corresponding to the concentrations found in their source water.

MassDEP has determined that your system is required to comply with the LT2ESWTR and is classified as a Schedule 1 System (serves $\geq 100,000$). You have already completed the first round of the LT2ESWTR. This letter is to notify you of the upcoming second round of monitoring for *Cryptosporidium*, *E. Coli* and Turbidity.

1. **By January 1, 2015, as a Schedule 1 System, you must submit a hard copy of one of the following to your regional MassDEP office at the address noted below:**
 - a) A Cryptosporidium Source Water Monitoring Plan and Schedule For Cryptosporidium, E.Coli and Turbidity Sampling on the enclosed Form SWTR-LT2D that specifies the dates of sample collection for source water monitoring and the sampling location (please be specific and identify upstream and downstream system components at the sample location). Form SWTR LT2D is also located at: <http://www.mass.gov/eea/docs/dep/water/approvals/year-thru-alpha/e-thru-lt2d.pdf>
and
 - a) Also, submit your sampling location plan as a simple system-line-diagram describing your sampling point (See enclosed examples of a simple system-line-diagram in Figure 1-3);
or
 - b) Notify MassDEP of the system's intent to provide at least 5.5-log treatment for *Cryptosporidium* for filtered systems or 3-log treatment for unfiltered systems in lieu of conducting source water monitoring. ***Systems are strongly encouraged to contact their regional contact person, listed below, prior to submitting this notice.***
2. **By April 1, 2015, in accordance with 310 CMR 22.20G(2)(c) and the enclosed monitoring chart, Schedule 1 systems must begin *Cryptosporidium*, *E. Coli* and Turbidity source water monitoring.** (See enclosed Table A - LT2 Monitoring Schedule).
3. **By March 1, 2017, in accordance with 310 CMR 22.20G(11) Schedule 1 systems must submit a Bin Calculation Form.** The bin calculation form is an Excel spreadsheet that is available at <http://www.epa.gov/safewater/disinfection/lt2/compliance.html#pws>. See a sample hard copy of the form in Table B.

Monitoring Results

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

All monitoring results must be sent to your regional MassDEP office, to the attention of the LT2ESWTR contact staff, noted below no later than 10 days after the end of the first month following the month when the sample is collected. *In the first round of the LT2ESWTR, systems submitted information to EPA's Data Collection and Tracking System. This process has been discontinued.*

Note also that grandfathering of *Cryptosporidium* monitoring results was permitted during the first round of source water monitoring but is not allowed in the second round.

Analytical laboratories

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http://water.epa.gov/lawsregs/rulesregs/sdwa/lt2/upload/cryptolablist_LT2_11042014.pdf. A laboratory that is not on the USEPA's list may seek MassDEP approval by submitting an application to Mr. Frank Niles at the address noted below. MassDEP will only consider for approval laboratories that are already certified by a third party organization that is acceptable to MassDEP. A *Cryptosporidium* Application/Registration Form is available at <http://www.mass.gov/eea/agencies/massdep/water/approvals/lt2-swtrs.html>.

E.Coli, Turbidity and *Cryptosporidium* analyses must be conducted on the same sample.

If you are uncertain about the approval status of a laboratory, you may contact: Frank Niles at the contact information below.

Available Guidance

The following EPA website contains links to guide you through the regulatory process:

<http://www.epa.gov/safewater/disinfection/lt2/compliance.html#pws>. These links include:

- Rule Quick Reference Guide
- Recommended sample collection methods
- Bin Calculating Spread Sheets for tracking and reporting results (see enclosed **Table B** for a report example).
- *Cryptosporidium* treatment bin calculation spreadsheet
- Microbial laboratory guides

MassDEP Regional Address and Technical Assistance Contacts

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Southeast Regional Office (SERO) 20 Riverside Drive, Lakeville, MA 02347	Giliane Tardieu Scott Sayers	(508) 946-2789 (508) 946-2780	Giliane.Tardieu@state.ma.us Scott.Sayers@state.ma.us
Northeast Regional Office (NERO) 205B Lowell Ave, Wilmington, MA 01887	Hilary Jean	(978) 694-3229	Hilary.Jean@state.ma.us
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Sincerely,



Yvette DePeiza
Program Director
Drinking Water Program
cc: DEP Regional Offices-Chiefs, Kevin Reilly, EPA
Enclosures
letter/12-9-14

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MAEVE VALLELY BARTLETT
Secretary

DAVID W. CASH
Commissioner

DATE: 12/9/2014

Springfield Water and Sewer Commission
PO Box 995
Springfield, MA 01101-0000

Re: City/Town: Springfield
PWS Name: Springfield Water And Sewer Commission
PWSID # 1281000
Program: LT2ESWTR (Second Round)
Schedule 1 system

Dear Public Water Supplier:

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Sincerely,



Yvette DePeiza
Program Director
Drinking Water Program
cc: DEP Regional Offices-Chiefs, Kevin Reilly, EPA
Enclosures
letter/12-9-14

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DAVID W. CASH
Commissioner

DATE: 12/9/2014

Worcester DPW, Water Supply Division
18 East Worcester St
Worcester, MA 01604-0000

Re: City/Town: Worcester
PWS Name: Worcester DPW, Water Supply Division
PWSID # 2348000
Program: LT2ESWTR (Second Round)
Schedule 1 system

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cc: DEP Regional Offices-Chiefs, Kevin Reilly, EPA
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Commissioner

DATE: 12/9/2014

Lowell Regional Water Utility
815 Pawtucket Blvd
Lowell, MA 01854-0000

Re: City/Town: Lowell
PWS Name: Lowell Regional Water Utility
PWSID # 3160000
Program: LT2ESWTR (Second Round)
Schedule 1 system

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DATE: 12/9/2014

Cambridge Water Department
250 Fresh Pond Pkwy
Cambridge, MA 02138-0000

Re: City/Town: Cambridge
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PWSID # 3049000
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 - i) Also, submit your sampling location plan as a simple system-line-diagram describing your sampling point (See enclosed examples of a simple system-line-diagram in Figure 1-3);
or
 - j) Notify MassDEP of the system's intent to provide at least 5.5-log treatment for *Cryptosporidium* for filtered systems or 3-log treatment for unfiltered systems in lieu of conducting source water monitoring. ***Systems are strongly encouraged to contact their regional contact person, listed below, prior to submitting this notice.***
14. **By April 1, 2015, in accordance with 310 CMR 22.20G(2)(c) and the enclosed monitoring chart, Schedule 1 systems must begin *Cryptosporidium*, *E. Coli* and Turbidity source water monitoring.** (See enclosed Table A - LT2 Monitoring Schedule).
15. **By March 1, 2017, in accordance with 310 CMR 22.20G(11) Schedule 1 systems must submit a Bin Calculation Form.** The bin calculation form is an Excel spreadsheet that is available at <http://www.epa.gov/safewater/disinfection/lt2/compliance.html#pws>. See a sample hard copy of the form in Table B.

Monitoring Results

All monitoring results must be sent to your regional MassDEP office, to the attention of the LT2ESWTR contact staff, noted below no later than 10 days after the end of the first month following the month when the sample is collected. *In the first round of the LT2ESWTR, systems submitted information to EPA's Data Collection and Tracking System. This process has been discontinued.*

Note also that grandfathering of *Cryptosporidium* monitoring results was permitted during the first round of source water monitoring but is not allowed in the second round.

Analytical laboratories

All analyses must be conducted by an EPA or Massachusetts approved certified laboratory. For *Cryptosporidium* analyses public water systems must use a laboratory that is approved under EPA's Laboratory Quality Assurance Evaluation Program for Analysis of *Cryptosporidium* in water or a third party certified laboratory that has been approved for *Cryptosporidium* analysis by MassDEP. For a list of laboratories approved under EPA's Laboratory Quality Assurance Evaluation Program for Analysis of *Cryptosporidium* in water please see the EPA enclosed list or visit:

http://water.epa.gov/lawsregs/rulesregs/sdwa/lt2/upload/cryptolablist_LT2_11042014.pdf. A laboratory that is not on the USEPA's list may seek MassDEP approval by submitting an application to Mr. Frank Niles at the address noted below. MassDEP will only consider for approval laboratories that are already certified by a third party organization that is acceptable to MassDEP. A *Cryptosporidium* Application/Registration Form is available at <http://www.mass.gov/eea/agencies/massdep/water/approvals/lt2-swtrs.html>.

E.Coli, Turbidity and *Cryptosporidium* analyses must be conducted on the same sample.

If you are uncertain about the approval status of a laboratory, you may contact: Frank Niles at the contact information below.

Available Guidance

The following EPA website contains links to guide you through the regulatory process:

<http://www.epa.gov/safewater/disinfection/lt2/compliance.html#pws>. These links include:

- Rule Quick Reference Guide
- Recommended sample collection methods
- Bin Calculating Spread Sheets for tracking and reporting results (see enclosed **Table B** for a report example).
- *Cryptosporidium* treatment bin calculation spreadsheet
- Microbial laboratory guides

MassDEP Regional Address and Technical Assistance Contacts

If you have any general questions, or do not receive an approval letter for your source water monitoring plan by March 1, 2015, please contact your regional representative.

Regional Office Address	LT2ESWTR Contact	Phone #	Email Address
Western Regional Office (WERO) 436 Dwight St, Springfield, MA 01103	Michael McGrath	(413) 755-2202	Michael.McGrath@state.ma.us
Central Regional Office (CERO) 8 New Bond Street, Worcester, MA 01606	Nora Hanley	(508) 767-2720	Nora.Hanley@state.ma.us
Southeast Regional Office (SERO) 20 Riverside Drive, Lakeville, MA 02347	Giliane Tardieu Scott Sayers	(508) 946-2789 (508) 946-2780	Giliane.Tardieu@state.ma.us Scott.Sayers@state.ma.us
Northeast Regional Office (NERO) 205B Lowell Ave, Wilmington, MA 01887	Hilary Jean	(978) 694-3229	Hilary.Jean@state.ma.us
Boston Office, 1 Winter St, Boston, MA 02108	Frank Niles Also laboratory contact	(617) 574-6871	Frank.R.Niles@state.ma.us

Please mail all required information to the appropriate regional office, as shown above. **If after review, additional information is needed, MassDEP will contact you:** Thank you for cooperatively working with the MassDEP towards continued implementation of this important rule. You may also contact me at Program.Director-dwp@state.ma.us.

Sincerely,



Yvette DePeiza
Program Director
Drinking Water Program
cc: DEP Regional Offices-Chiefs, Kevin Reilly, EPA
Enclosures
letter/12-9-14

Y:\DWPArchive\BOSTON\LT2ESWTR (Second Round)