

Massachusetts Department of Environmental Protection - Drinking Water Program Stage 2 Disinfection By-Products Rule (DBPR) Quarterly Compliance Worksheet

PWSID: 1281000	PWS Name: Springfield Water & Sewer Commission	City/Town: Springfield & Ludlow
<input checked="" type="radio"/> COM <input type="radio"/> NTNC	Monitoring Frequency: <input checked="" type="radio"/> Quarterly <input type="radio"/> Annual or less	Monitoring Type: <input checked="" type="radio"/> Routine <input type="radio"/> Reduced
CERTIFICATION: I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the		
YEAR: 2019 QUARTER: <input checked="" type="radio"/> Q1: Jan-Mar <input type="radio"/> Q2: Apr-Jun <input type="radio"/> Q3: Jul-Sep <input type="radio"/> Q4: Oct-Dec		Date: 4/5/2019
Primary Operator Signature: _____		Date: 4/5/2019

SYSTEMS USING CHLORINATION or CHLORAMINATION - COMPLETE TABLES A, B & C

A. CHLORINE RESIDUAL COMPLIANCE

Month	Year	# Samples	Monthly Avg (ppm)	Quarterly Avg (ppm)			
Q1	January	2019	308	0.74	0.64	Min# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	120
	February	2019	279	0.67			
	March	2019	303	0.50			
Q2	April	2018	237	0.49	0.53	Minimum # of distribution samples tested in any month:	237
	May	2018	254	0.55			
	June	2018	264	0.56			
Q3	July	2018	302	0.66	0.66	Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	August	2018	310	0.62			
	September	2018	294	0.70			
Q4	October	2018	312	0.68	0.74	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.64
	November	2018	301	0.76			
	December	2018	305	0.78			
						Chlorine MRDL (ppm):	4.0
						Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO

B. TTHM COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹ Q4	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/6/2019	52.7	6/5/2018	59.0	9/4/2018	74.0	12/6/2018	71.0	62.6	64.2
10082 -1400 State St Vibra/PV Hospital	3/6/2019	43.6	6/5/2018	46.0	9/4/2018	56.0	12/6/2018	52.0	48.8	49.4
10074 - 833 Page Blvd	3/6/2019	43.9	6/5/2018	46.0	9/4/2018	52.0	12/6/2018	50.0	47.4	48.0
10087- 322 Main Street	3/6/2019	43.2	6/5/2018	46.0	9/4/2018	54.0	12/6/2018	53.0	48.4	49.1
10083- North Main Fire Station	3/6/2019	42.4	6/5/2018	45.0	9/4/2018	56.0	12/6/2018	49.0	47.4	48.1
10085 - Center Street Fire Station	3/6/2019	49.4	6/5/2018	52.0	9/4/2018	65.0	12/6/2018	64.0	57.0	57.6
10086 - 1043 Sumner Ave	3/6/2019	46.6	6/5/2018	49.0	9/4/2018	58.0	12/6/2018	61.0	53.1	53.7
10075- Catalina Pump Station	3/6/2019	47.7	6/5/2018	54.0	9/4/2018	64.0	12/6/2018	67.0	56.6	58.2
		MCL = 80 (ppb)		Was OEL exceeded?'		NO		Was MCL exceeded?'		NO

C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹ Q1	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/6/2019	57.3	6/5/2018	36.0	9/4/2018	63.0	12/6/2018	82.0	64.9	59.6
10082 -1400 State St Vibra/PV Hospital	3/6/2019	54.9	6/5/2018	50.0	9/4/2018	65.0	12/6/2018	93.0	67.0	65.7
10074 - 833 Page Blvd	3/6/2019	55.4	6/5/2018	50.0	9/4/2018	60.0	12/6/2018	89.0	65.0	63.6
10087- 322 Main Street	3/6/2019	64.7	6/5/2018	46.0	9/4/2018	57.0	12/6/2018	84.0	67.6	62.9
10083- North Main Fire Station	3/6/2019	68.2	6/5/2018	45.0	9/4/2018	60.0	12/6/2018	90.0	71.6	65.8
10085 - Center Street Fire Station	3/6/2019	70.0	6/5/2018	47.0	9/4/2018	49.0	12/31/2018	68.0	64.3	58.5
10086 - 1043 Sumner Ave	3/6/2019	66.6	6/5/2018	49.0	9/4/2018	57.0	12/6/2018	80.0	67.6	63.2
10075- Catalina Pump Station	3/6/2019	67.1	6/5/2018	50.0	9/4/2018	51.0	12/31/2018	68.0	63.3	59.0
		MCL = 60 (ppb)		Was OEL exceeded?'		YES		Was MCL exceeded?'		YES

D. IMPORTANT COMPLIANCE NOTES

- PWS has exceeded the OEL for TTHM and/OR HAA5 but is authorized to limit the scope of the OEL evaluation to reporting only. (Refer to letter regarding seasonal OEL exceedances)
- PWS has exceeded the OEL for TTHM and/OR HAA5 and must **complete and submit an Operational Evaluation Report** within 90 days of receipt of the analytical results (systems sampling quarterly only).
- PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)
- PWS **NO LONGER QUALIFIES** for reduced monitoring based on average concentrations of TTHM, HAA5 and/or TOC. (Refer to quarterly monitoring criteria on "Instructions" Tab)

¹OELs apply to systems sampling quarterly only.

**Massachusetts Department of Environmental Protection - Drinking Water Program
 Stage 2 Disinfection By-Products Rule (DBPR) Quarterly Compliance Worksheet**

DEFINITIONS	
Monthly Average:	Average of all results within the current month.
Quarterly Average:	Average of three monthly averages.
Running Annual Average (RAA):	Average of 4 quarters (12 consecutive months). <i>Average of this quarter and three prior consecutive quarterly averages.</i>
Total # of Samples:	Total number of samples collected during the monitoring period.
Locational Running Annual Average (LRAA):	RAA from the <u>same</u> sample location. <i>Average of this quarter and three prior consecutive quarterly averages at the same location.</i>
Operational Evaluation Level (OEL):	Average of the two previous quarter's results and twice the current quarter's results

Note: Record and calculate all ND or < MDL results as the number 0 (zero).

COMMENTS:	Center St. Fire Station and Catalina Pump Station were resampled because original samples were not valid due to quality control surrogate samples outside of control limits at testing laboratory.
------------------	--