

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: 2020 **QUARTER:** Q1: Jan-Mar Q2: Apr-Jun Q3: Jul-Sep Q4: Oct-Dec

Primary Operator Signature: _____ **Date:** _____

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	2020	306	0.77	0.65	Min# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	266
	February	2020	286	0.61			
	March	2020	309	0.58			
Q2	April	2020	299	0.59	0.62	Minimum # of distribution samples tested in any month:	286
	May	2020	305	0.61			
	June	2020	303	0.65			
Q3	July	2020	309	0.76	0.70	Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	August	2020	304	0.67			
	September	2020	301	0.66			
Q4	October	2019	312	0.67	0.73	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.67
	November	2019	297	0.67			
	December	2019	314	0.86			
						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	3/3/2020	46.8	6/3/2020	68.1	9/1/2020	62.3	12/3/2019	76.7	59.9	63.5
10082-1400 State St Vibra/PV Hospital	3/3/2020	38.9	6/3/2020	54.4	9/1/2020	53.3	12/3/2019	61.2	50.0	51.9
10074 - 833 Page Blvd	3/3/2020	37.8	6/3/2020	53.3	9/1/2020	52.5	12/3/2019	61.9	49.0	51.4
10087- 322 Main Street	3/3/2020	38.1	6/3/2020	55.5	9/1/2020	53.7	12/3/2019	56.9	50.2	51.0
10083- North Main Fire Station	3/3/2020	37.3	6/3/2020	55.7	9/1/2020	53.2	12/3/2019	61.2	49.8	51.8
10085 - Center Street Fire Station	3/3/2020	44.0	6/3/2020	62.7	9/1/2020	58.4	12/3/2019	68.7	55.8	58.4
10086 - 1043 Sumner Ave	3/3/2020	42.1	6/3/2020	58.5	9/1/2020	52.0	12/3/2019	64.2	51.1	54.2
10075- Catalina Pump Station	3/3/2020	42.7	6/3/2020	69.0	9/1/2020	57.4	12/3/2019	68.0	56.6	59.3
		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 Q3	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/3/2020	49.2	6/3/2020	76.4	9/1/2020	52.3	12/3/2019	56.6	57.5	58.6
10082-1400 State St Vibra/PV Hospital	3/3/2020	45.5	6/3/2020	73.2	9/1/2020	54.2	12/3/2019	68.6	56.8	60.4
10074 - 833 Page Blvd	3/3/2020	42.2	6/3/2020	62.9	9/1/2020	52.0	12/3/2019	70.0	52.3	56.8
10087- 322 Main Street	3/3/2020	42.4	6/3/2020	74.1	9/1/2020	55.6	12/3/2019	69.2	56.9	60.3
10083- North Main Fire Station	3/3/2020	42.7	6/3/2020	60.6	9/1/2020	53.3	12/3/2019	41.2	52.5	49.5
10085 - Center Street Fire Station	3/3/2020	44.1	6/3/2020	80.3	9/1/2020	58.6	12/3/2019	72.1	60.4	63.8
10086 - 1043 Sumner Ave	3/3/2020	41.9	6/3/2020	65.3	9/1/2020	56.1	12/3/2019	78.6	54.8	60.5
10075- Catalina Pump Station	3/3/2020	46.1	6/3/2020	57.0	9/1/2020	46.5	12/3/2019	77.9	49.0	56.9
		MCL = 60 (ppb)		Was OEL exceeded?'		NO		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.

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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.
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