

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

1281000 <small>PWSID:</small>	Springfield Water & Sewer Commission <small>PWS Name:</small>	Springfield & Ludlow <small>City/Town:</small>
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<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
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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 best extent of my knowledge.	YEAR: 2020	QUARTER: <input type="radio"/> Q1: Jan-Mar <input type="radio"/> Q2: Apr-Jun <input type="radio"/> Q3: Jul-Sep <input checked="" type="radio"/> Q4: Oct-Dec	Primary Operator Signature: _____ Date: _____
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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	Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	286	
	May	2020	305	0.61				
	June	2020	303	0.65				
Q3	July	2020	309	0.76	0.70	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.64	
	August	2020	304	0.67				
	September	2020	301	0.66				
Q4	October	2020	308	0.60	0.61	Chlorine MRDL (ppm):	4.0	
	November	2020	298	0.61				
	December	2020	314	0.62				
						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	12/1/2020	68.2	66.7	61.3
10082 -1400 State St Vibra/PV Hospital	3/3/2020	38.9	6/3/2020	54.4	9/1/2020	53.3	12/1/2020	56.4	55.1	50.7
10074 - 833 Page Blvd	3/3/2020	37.8	6/3/2020	53.3	9/1/2020	52.5	12/1/2020	54.2	53.6	49.4
10087- 322 Main Street	3/3/2020	38.1	6/3/2020	55.5	9/1/2020	53.7	12/1/2020	52.1	53.4	49.8
10083- North Main Fire Station	3/3/2020	37.3	6/3/2020	55.7	9/1/2020	53.2	12/1/2020	54.2	54.3	50.1
10085 - Center Street Fire Station	3/3/2020	44.0	6/3/2020	62.7	9/1/2020	58.4	12/1/2020	62.9	61.7	57.0
10086 - 1043 Sumner Ave	3/3/2020	42.1	6/3/2020	58.5	9/1/2020	52.0	12/1/2020	59.5	57.4	53.0
10075- Catalina Pump Station	3/3/2020	42.7	6/3/2020	69.0	9/1/2020	57.4	12/1/2020	62.8	63.0	58.0
		MCL = 80 (ppb)		Was OEL exceeded? ¹		NO		Was MCL exceeded?:		NO

C. HAA5 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	49.2	6/3/2020	76.4	9/1/2020	52.3	12/1/2020	39.5	51.9	54.3
10082 -1400 State St Vibra/PV Hospital	3/3/2020	45.5	6/3/2020	73.2	9/1/2020	54.2	12/1/2020	53.7	58.7	56.7
10074 - 833 Page Blvd	3/3/2020	42.2	6/3/2020	62.9	9/1/2020	52.0	12/1/2020	54.2	55.8	52.8
10087- 322 Main Street	3/3/2020	42.4	6/3/2020	74.1	9/1/2020	55.6	12/1/2020	51.0	57.9	55.8
10083- North Main Fire Station	3/3/2020	42.7	6/3/2020	60.6	9/1/2020	53.3	12/1/2020	56.1	56.5	53.2
10085 - Center Street Fire Station	3/3/2020	44.1	6/3/2020	80.3	9/1/2020	58.6	12/1/2020	52.9	61.2	59.0
10086 - 1043 Sumner Ave	3/3/2020	41.9	6/3/2020	65.3	9/1/2020	56.1	12/1/2020	55.6	58.2	54.7
10075- Catalina Pump Station	3/3/2020	46.1	6/3/2020	57.0	9/1/2020	46.5	12/1/2020	45.0	48.4	48.6
		MCL = 60 (ppb)		Was OEL exceeded? ¹		YES		Was MCL exceeded?:		NO

D. IMPORTANT COMPLIANCE NOTES

- o 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)
- p 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).
- o PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)

¹OELs apply to systems sampling quarterly only.

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- o 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)

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 same 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:	
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