

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

<b>1281000</b>	<b>Springfield Water &amp; Sewer Commission</b>	<b>Springfield &amp; Ludlow</b>
<b>PWSID:</b>	<b>PWS Name:</b>	<b>City/Town:</b>
<input checked="" type="radio"/> <b>COM</b> <input type="radio"/> <b>NTNC</b>	<b>Monitoring Frequency:</b> <input checked="" type="radio"/> <b>Quarterly</b> <input type="radio"/> <b>Annual or less</b>	<b>Monitoring Type:</b> <input checked="" type="radio"/> <b>Routine</b> <input type="radio"/> <b>Reduced</b>
<b>CERTIFICATION:</b> 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.		
<b>YEAR:</b> <b>2022</b>	<b>QUARTER:</b> <input checked="" type="radio"/> <b>Q1: Jan-Mar</b> <input type="radio"/> <b>Q2: Apr-Jun</b> <input type="radio"/> <b>Q3: Jul-Sep</b> <input type="radio"/> <b>Q4: Oct-Dec</b>	
<b>Primary Operator Signature:</b>		<b>Date:</b>

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

### A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)	Quarterly Avg (ppm)		
<b>Q1</b>	January	2022	304	0.72	0.75	Min# of Cl <sub>2</sub> distribution samples required per Month: (Same location and frequency as TCR distribution sites).	266
	February	2022	279	0.77			
	March	2022	311	0.73			
<b>Q2</b>	April	2021	302	0.54	0.58	Minimum # of distribution samples tested in any month:	279
	May	2021	301	0.64			
	June	2021	303	0.56			
<b>Q3</b>	July	2021	320	0.67	0.76	Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	August	2021	310	0.82			
	September	2021	300	0.79			
<b>Q4</b>	October	2021	312	0.80	0.70	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.70
	November	2021	301	0.66			
	December	2021	311	0.65			
						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 <sup>1</sup> Q1	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/3/2022	87.3	6/3/2021	75.8	9/2/2021	95.4	12/2/2021	81.9	88	85
10082-1400 State St Vibra/PV Hospital	3/3/2022	59	6/3/2021	62.6	9/2/2021	89.7	12/2/2021	81.1	72	73
10074 - 833 Page Blvd	3/3/2022	76.9	6/3/2021	62.1	9/2/2021	83.5	12/2/2021	75.9	78	75
10089- 292 Main Street	3/3/2022	73.4	6/3/2021	62.3	9/2/2021	84.3	12/2/2021	77.2	77	74
10083- North Main Fire Station	3/3/2022	76.5	6/3/2021	62.6	9/2/2021	80.2	12/2/2021	76.0	77	74
10085 - Center Street Fire Station	3/3/2022	82.7	6/3/2021	68.9	9/2/2021	96.9	12/2/2021	82.2	86	83
10086 - 1043 Sumner Ave	3/3/2022	86.4	6/3/2021	68.3	9/2/2021	90.1	12/2/2021	83.3	87	82
10075- Catalina Pump Station	3/3/2022	87.4	6/3/2021	70.1	9/2/2021	95.0	12/2/2021	87.1	89	85
<b>MCL = 80 (ppb)</b>		Was OEL exceeded? <sup>1</sup>				<b>YES</b>	Was MCL exceeded?:			<b>YES</b>

### C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL <sup>1</sup> Q1	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/3/2022	107.2	6/3/2021	65.1	9/2/2021	71.1	12/2/2021	73.4	90	79
10082-1400 State St Vibra/PV Hospital	3/3/2022	109.2	6/3/2021	66.5	9/2/2021	96.9	12/2/2021	87.4	101	90
10074 - 833 Page Blvd	3/3/2022	107.1	6/3/2021	63.6	9/2/2021	98.0	12/2/2021	86.0	100	89
10089- 292 Main Street	3/3/2022	103.9	6/3/2021	62.8	9/2/2021	96.6	12/2/2021	84.0	97	87
10083- North Main Fire Station	3/3/2022	113.6	6/3/2021	64.0	9/2/2021	101.0	12/2/2021	83.8	103	91
10085 - Center Street Fire Station	3/3/2022	112.8	6/3/2021	69.2	9/2/2021	94.8	12/2/2021	79.5	100	89
10086 - 1043 Sumner Ave	3/3/2022	117.6	6/3/2021	66.2	9/2/2021	101.3	12/2/2021	92.8	107	94
10075- Catalina Pump Station	3/3/2022	114.3	6/3/2021	68.5	9/2/2021	93.9	12/2/2021	86.5	102	91
<b>MCL = 60 (ppb)</b>		Was OEL exceeded? <sup>1</sup>				<b>YES</b>	Was MCL exceeded?:			<b>YES</b>

### 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)

<sup>1</sup>OELs apply to systems sampling quarterly only.

**Massachusetts Department of Environmental Protection - Drinking Water Program  
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<b>DEFINITIONS</b>	
<b>Monthly Average:</b>	Average of all results within the current month.
<b>Quarterly Average:</b>	Average of three monthly averages.
<b>Running Annual Average (RAA):</b>	Average of 4 quarters (12 consecutive months). <i>Average of this quarter and three prior consecutive quarterly averages.</i>
<b>Total # of Samples:</b>	Total number of samples collected during the monitoring period.
<b>Locational Running Annual Average (LRAA):</b>	RAA from the same sample location. <i>Average of this quarter and three prior consecutive quarterly averages at the same location.</i>
<b>Operational Evaluation Level (OEL):</b>	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).**

<b>COMMENTS:</b>	
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