

# 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>2020</b>	<b>QUARTER:</b> <input type="radio"/> Q1: Jan-Mar <input checked="" type="radio"/> Q2: Apr-Jun <input type="radio"/> Q3: Jul-Sep <input type="radio"/> Q4: Oct-Dec	
<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)			
Q1	January	2020	306	0.77	0.65	Min# of Cl <sub>2</sub> distribution samples required per Month: (Same location and frequency as TCR distribution sites).	120
	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		Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	June	2020	303	0.65			
Q3	July	2019	312	0.64	0.70	<b>Running Annual Average (RAA)</b> <b>(Average of 4 Quarterly Averages):</b>	0.68
	August	2019	307	0.71			
	September	2019	302	0.74			
Q4	October	2019	312	0.67	0.73	Chlorine MRDL (ppm):	4.0
	November	2019	297	0.67		Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO
	December	2019	314	0.86			

### B. TTHM COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL <sup>1</sup> 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	9/3/2019	69.2	12/3/2019	76.7	64.9	65.2
10082 -1400 State St Vibra/PV Hospital	3/3/2020	38.9	6/3/2020	54.4	9/3/2019	57.3	12/3/2019	61.2	52.2	53.0
10074 - 833 Page Blvd	3/3/2020	37.8	6/3/2020	53.3	9/3/2019	54.8	12/3/2019	61.9	51.6	51.9
10087- 322 Main Street	3/3/2020	38.1	6/3/2020	55.5	9/3/2019	54.9	12/3/2019	56.9	51.5	51.3
10083- North Main Fire Station	3/3/2020	37.3	6/3/2020	55.7	9/3/2019	56.7	12/3/2019	61.2	52.5	52.7
10085 - Center Street Fire Station	3/3/2020	44.0	6/3/2020	62.7	9/3/2019	66.5	12/3/2019	68.7	59.5	60.5
10086 - 1043 Sumner Ave	3/3/2020	42.1	6/3/2020	58.5	9/3/2019	62.8	12/3/2019	64.2	55.8	56.9
10075- Catalina Pump Station	3/3/2020	42.7	6/3/2020	69.0	9/3/2019	61.1	12/3/2019	68.0	62.2	60.2
<b>MCL = 80 (ppb)</b>		<b>Was OEL exceeded?<sup>1</sup></b>				<b>NO</b>		<b>Was MCL exceeded?:</b>		<b>NO</b>

### C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL <sup>1</sup> Q2	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/3/2020	49.2	6/3/2020	76.4	9/3/2019	49.6	12/3/2019	56.6	64.6	57.9
10082 -1400 State St Vibra/PV Hospital	3/3/2020	45.5	6/3/2020	73.2	9/3/2019	81.8	12/3/2019	68.6	65.1	67.3
10074 - 833 Page Blvd	3/3/2020	42.2	6/3/2020	62.9	9/3/2019	68.7	12/3/2019	70.0	59.5	60.9
10087- 322 Main Street	3/3/2020	42.4	6/3/2020	74.1	9/3/2019	66.9	12/3/2019	69.2	64.9	63.1
10083- North Main Fire Station	3/3/2020	42.7	6/3/2020	60.6	9/3/2019	79.2	12/3/2019	41.2	51.3	55.9
10085 - Center Street Fire Station	3/3/2020	44.1	6/3/2020	80.3	9/3/2019	76.1	12/3/2019	72.1	69.2	68.1
10086 - 1043 Sumner Ave	3/3/2020	41.9	6/3/2020	65.3	9/3/2019	72.3	12/3/2019	78.6	62.8	64.5
10075- Catalina Pump Station	3/3/2020	46.1	6/3/2020	57.0	9/3/2019	71.7	12/3/2019	77.9	59.5	63.2
<b>MCL = 60 (ppb)</b>		<b>Was OEL exceeded?<sup>1</sup></b>				<b>YES</b>		<b>Was MCL exceeded?:</b>		<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.