

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

1281000	Springfield Water & Sewer Commission	Springfield & Ludlow
PWSID:	PWS Name:	City/Town:
<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 <input type="radio"/> Increased

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: <b>2022</b>	QUARTER: <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
Primary Operator Signature: _____	Date: _____	

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

### A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)
Q1	January	2022	304	0.72
	February	2022	279	0.77
	March	2022	311	0.73
Q2	April	2022	298	0.81
	May	2022	302	0.75
	June	2022		
Q3	July	2021	320	0.67
	August	2021	310	0.82
	September	2021	300	0.79
Q4	October	2021	312	0.80
	November	2021	301	0.66
	December	2021	311	0.65

Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)	<b>0.74</b>
Chlorine MRDL (ppm):	<b>4.0</b>
Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	<b>NO</b>

\*Note that you are required to notify MassDEP within 10 days of the end of the quarter of any DBPR MCL or MRDL violation. Tier 2 (30 day) Public Notification must also be conducted for all MCL and MRDL violations.

### B. TTHM 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	3/3/2022	87	6/2/2022	90	9/2/2021	95	12/2/2021	82	87	89	
10082 -1400 State St Vibra/PV Hospital	3/3/2022	59	6/2/2022	83	9/2/2021	90	12/2/2021	81	77	78	
10074 - 833 Page Blvd	3/3/2022	77	6/2/2022	76	9/2/2021	84	12/2/2021	76	76	78	
10089- 292 Main Street	3/3/2022	73	6/2/2022	74	9/2/2021	84	12/2/2021	77	75	77	
10083- North Main Fire Station	3/3/2022	77	6/2/2022	75	9/2/2021	80	12/2/2021	76	76	77	
10085 - Center Street Fire Station	3/3/2022	83	6/2/2022	87	9/2/2021	97	12/2/2021	82	85	87	
10086 - 1043 Sumner Ave	3/3/2022	86	6/2/2022	80	9/2/2021	90	12/2/2021	83	82	85	
10075- Catalina Pump Station	3/3/2022	87	6/2/2022	87	9/2/2021	95	12/2/2021	87	87	89	
<b>MCL = 80 (ppb)</b>		Was OEL exceeded? <sup>2</sup>				<b>YES</b>		Was MCL exceeded? <sup>1</sup>		<b>YES</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	3/3/2022	107	6/2/2022	72	9/2/2021	71	12/2/2021	73	82	82	
10082 -1400 State St Vibra/PV Hospital	3/3/2022	109	6/2/2022	77	9/2/2021	97	12/2/2021	87	88	93	
10074 - 833 Page Blvd	3/3/2022	107	6/2/2022	71	9/2/2021	98	12/2/2021	86	85	91	
10089- 292 Main Street	3/3/2022	104	6/2/2022	82	9/2/2021	97	12/2/2021	84	87	91	
10083- North Main Fire Station	3/3/2022	114	6/2/2022	79	9/2/2021	101	12/2/2021	84	88	93	
10085 - Center Street Fire Station	3/3/2022	113	6/2/2022	79	9/2/2021	95	12/2/2021	80	87	91	
10086 - 1043 Sumner Ave	3/3/2022	118	6/2/2022	78	9/2/2021	101	12/2/2021	93	92	98	
10075- Catalina Pump Station	3/3/2022	114	6/2/2022	88	9/2/2021	94	12/2/2021	87	93	95	
<b>MCL = 60 (ppb)</b>		Was OEL exceeded? <sup>2</sup>				<b>YES</b>		Was MCL exceeded? <sup>1</sup>		<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)
- PWS has exceeded the MCL for TTHM or HAA5 during ANNUAL monitoring and therefore will be subject to **INCREASED monitoring** (quarterly dual sample sets at each location) until further notice.

<sup>2</sup>OELs apply to systems sampling quarterly only.

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

1281000  
PWSID:

Springfield Water & Sewer Commission  
PWS Name:

Springfield & Ludlow  
City/Town:

**SURFACE OR GWUDI SYSTEMS >499 SEEKING OR ON REDUCED TTHM/HAA5 MONITORING - COMPLETE TABLE E**

E.	Plant Name:		Plant 1		Plant 2		Plant 3		Plant 4	
	MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)	Monthly Avg (ppm)	Quarterly Avg (ppm)	Monthly Avg (ppm)	Quarterly Avg (ppm)	Monthly Avg (ppm)	Quarterly Avg (ppm)
TOC (raw water)	Q1	January								
		February								
		March								
	Q2	April								
		May								
		June								
	Q3	July								
		August								
		September								
	Q4	October								
		November								
		December								
<b>Running Annual Average:</b> (Average of last 4 quarterly averages)										

**SYSTEMS USING OZONATION - COMPLETE TABLE F**

F.	Plant Name:		Plant 1	Plant 2	Plant 3	Plant 4
	MONTH	YEAR	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)
BROMATE (finished water)	Q1	January				
		February				
		March				
	Q2	April				
		May				
		June				
	Q3	July				
		August				
		September				
	Q4	October				
		November				
		December				
<b>Running Annual Average:</b> (Average of last 12 monthly averages)						
<b>Was Bromate MCL Exceeded? <sup>1</sup></b> (MCL = 0.010 ppm)						
<b>Quality for Reduced Bromate Monitoring?</b> (RAA < 0.0025 ppm)						

**DEFINITIONS**

<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 one year of consecutive compliance periods, including the current one. 4 quarters (THM/HAA5 and TOC) or 12 months (Cl and Bromate).
<b>Total # of Samples:</b>	Total number of samples collected during the monitoring period.
<b>Locational Running Annual Average (LRAA):</b>	RAA from the <u>same</u> sample location. Average of this quarter and three prior consecutive quarterly averages at the same location.
<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).**

**COMMENTS:**