

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: 2024	QUARTER: <input type="radio"/> Q1: Jan-Mar <input type="radio"/> Q2: Apr-Jun <input checked="" 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	2024	309	0.71
	February	2024	290	0.63
	March	2024	311	0.67
Q2	April	2024	301	0.66
	May	2024	311	0.61
	June	2024	297	0.64
Q3	July	2024	312	0.72
	August	2024	309	0.74
	September	2024		
Q4	October	2023	305	0.79
	November	2023	300	0.82
	December	2023	300	0.73

Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)	0.70
Chlorine MRDL (ppm):	4.0
Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO

*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 ¹ Q3	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb		
10081- Chapin St Pump Station	3/5/2024	63	6/4/2024	65	9/3/2024	62	12/5/2023	74	63	66
10082 -1400 State St Vibra/PV Hospital	3/5/2024	54	6/4/2024	55	9/3/2024	55	12/5/2023	63	55	57
10074 - 833 Page Blvd	3/5/2024	51	6/4/2024	55	9/3/2024	55	12/5/2023	58	54	55
10089- 292 Main Street	3/5/2024	49	6/4/2024	51	9/3/2024	54	12/5/2023	61	52	54
10083- North Main Fire Station	3/5/2024	49	6/4/2024	53	9/3/2024	53	12/5/2023	58	52	53
10085 - Center Street Fire Station	3/5/2024	57	6/4/2024	61	9/3/2024	57	12/5/2023	71	58	62
10086 - 1043 Sumner Ave	3/5/2024	56	6/4/2024	57	9/3/2024	55	12/5/2023	67	56	59
10075- Catalina Pump Station	3/5/2024	57	6/4/2024	60	9/3/2024	57	12/5/2023	67	58	60
		MCL = 80 (ppb)		Was OEL exceeded? ²		NO		Was MCL exceeded? ¹		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	3/5/2024	47	6/4/2024	49	9/3/2024	51	12/5/2023	41	50	47
10082 -1400 State St Vibra/PV Hospital	3/5/2024	59	6/4/2024	68	9/3/2024	58	12/5/2023	74	61	65
10074 - 833 Page Blvd	3/5/2024	58	6/4/2024	62	9/3/2024	59	12/5/2023	71	60	63
10089- 292 Main Street	3/5/2024	61	6/4/2024	61	9/3/2024	54	12/5/2023	71	58	62
10083- North Main Fire Station	3/5/2024	58	6/4/2024	71	9/3/2024	59	12/5/2023	87	62	69
10085 - Center Street Fire Station	3/5/2024	58	6/4/2024	65	9/3/2024	64	12/5/2023	56	63	61
10086 - 1043 Sumner Ave	3/5/2024	61	6/4/2024	64	9/3/2024	55	12/5/2023	80	59	65
10075- Catalina Pump Station	3/5/2024	61	6/4/2024	63	9/3/2024	58	12/5/2023	78	60	65
		MCL = 60 (ppb)		Was OEL exceeded? ²		YES		Was MCL exceeded? ¹		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)
- 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.

²OELs 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)						
TOC (raw water)	Q1	January									
		February									
		March									
	Q2	April									
		May									
		June									
	Q3	July									
		August									
		September									
	Q4	October									
		November									
		December									
		Running Annual Average: (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					
		Running Annual Average: (Average of last 12 monthly averages)					
		Was Bromate MCL Exceeded? ¹ (MCL = 0.010 ppm)					
		Quality for Reduced Bromate Monitoring? (RAA < 0.0025 ppm)					

DEFINITIONS

Monthly Average:	Average of all results within the current month.
Quarterly Average:	Average of three monthly averages.
Running Annual Average (RAA):	Average of one year of consecutive compliance periods, including the current one. 4 quarters (THM/HAA5 and TOC) or 12 months (Cl and Bromate).
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: