

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
PWS Class: COM	Monitoring Frequency: Quarterly	Monitoring Type: Routine

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: **2025** **QUARTER:** **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	2025	309	0.76
	February	2025	279	0.74
	March	2025	295	0.74
Q2	April	2025	299	0.63
	May	2025	310	0.65
	June	2025	302	0.67
Q3	July	2025	309	0.68
	August	2025	304	0.82
	September	2025	302	0.78
Q4	October	2025	311	0.73
	November	2025	293	0.69
	December	2024	314	0.68

Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)	0.71
Chlorine MRDL (ppm):	4.0
Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO

¹ 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 ²	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	
10081- Chapin St Pump Station	3/4/2025	53	6/3/2025	68	9/2/2025	73	12/3/2025	85	78	70
10082 -1400 State St Vibra/PV Hospital	3/4/2025	46	6/3/2025	57	9/2/2025	61	12/3/2025	80	70	61
10074 - 833 Page Blvd	3/4/2025	46	6/3/2025	54	9/2/2025	63	12/3/2025	77	68	60
10089- 292 Main Street	3/4/2025	49	6/3/2025	55	9/2/2025	61	12/3/2025	75	67	60
10083- North Main Fire Station	3/4/2025	45	6/3/2025	56	9/2/2025	63	12/3/2025	74	67	60
10085 - Center Street Fire Station	3/4/2025	52	6/3/2025	62	9/2/2025	70	12/3/2025	82	74	67
10086 - 1043 Sumner Ave	3/4/2025	50	6/3/2025	58	9/2/2025	64	12/3/2025	73	67	61
10075- Catalina Pump Station	3/4/2025	51	6/3/2025	60	9/2/2025	66	12/3/2025	78	71	64
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 ²	LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	
10081- Chapin St Pump Station	3/4/2025	51	6/3/2025	74	9/2/2025	65	12/3/2025	55	62	61
10082 -1400 State St Vibra/PV Hospital	3/4/2025	49	6/3/2025	66	9/2/2025	70	12/3/2025	74	71	65
10074 - 833 Page Blvd	3/4/2025	46	6/3/2025	63	9/2/2025	68	12/3/2025	75	70	63
10089- 292 Main Street	3/4/2025	50	6/3/2025	60	9/2/2025	62	12/3/2025	62	62	59
10083- North Main Fire Station	3/4/2025	47	6/3/2025	64	9/2/2025	67	12/3/2025	80	73	65
10085 - Center Street Fire Station	3/4/2025	48	6/3/2025	71	9/2/2025	70	12/3/2025	78	74	67
10086 - 1043 Sumner Ave	3/4/2025	49	6/3/2025	64	9/2/2025	68	12/3/2025	69	68	63
10075- Catalina Pump Station	3/4/2025	50	6/3/2025	65	9/2/2025	73	12/3/2025	70	70	65
MCL = 60 (ppb)		Was OEL exceeded?²		YES		Was MCL exceeded?¹		YES		

D. IMPORTANT COMPLIANCE NOTES

- a** 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)
- b** 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).
- c** PWS continues to qualify for reduced monitoring based on LRAAs of TTHM and HAA5 (and TOC if applicable)
- d** 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)
- e** 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.

² 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

F. Plant Name:			Plant 1	Plant 2	Plant 3	Plant 4					
TOC (raw water)	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)	
	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	
BROMATE (finished water)	MONTH	YEAR	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	
	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)							
Qualify 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. Average of this quarter and three prior consecutive quarterly averages at the same location.
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: