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

1281000	S	pringfield Wa	ater & Sewer Co	mmission	Springfield & Ludlow
PWSID:	PWS Name:				City/Town:
● COM ○ NTNC	Monitoring Frequ	ency: 🖲 Quarter	rly O Annual o	or less Monitoring	Type: Routine O Reduced O Increased
CERTIFICATION: I certify law that I am the person		YEAR: 2	023 QUARTER	🔾 Q1: Jan-Mar 🔾 Q	2: Apr-Jun O Q3: Jul-Sep Q4: Oct-Dec
this form and the inform					
herein is true, accurate a					
best extent of my knowl		Primary Operator	r Signaturo:		Date:
Sest extent of my known	cuge.	Finally Operator	Signature:		Dale.

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

A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)
	January	2023	308	0.71
Q1	February	2023	277	0.61
	March	2023	314	0.61
	April	2023	298	0.56
Q2	May	2023	309	0.65
	June	2023	306	0.59
	July	2023	308	0.71
Q3	August	2023	311	0.64
	September	2023	303	0.78
	October	2023	305	0.79
Q4	November	2023	300	0.82
	December	2023		

1168	Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)
4.0	Chlorine MRDL (ppm):
	Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.

¹Note 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	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	LKAA
10081- Chapin St Pump Station	3/1/2023	49	6/5/2023	69	9/5/2023	71	12/5/2023	74	72	66
10082 -1400 State St Vibra/PV Hospital	3/1/2023	37	6/5/2023	57	9/5/2023	61	12/5/2023	63	61	55
10074 - 833 Page Blvd	3/1/2023	36	6/5/2023	53	9/5/2023	62	12/5/2023	58	58	52
10089- 292 Main Street	3/1/2023	37	6/5/2023	55	9/5/2023	59	12/5/2023	61	59	53
10083- North Main Fire Station	3/1/2023	35	6/5/2023	53	9/5/2023	56	12/5/2023	58	56	51
10085 - Center Street Fire Station	3/1/2023	44	6/5/2023	64	9/5/2023	67	12/5/2023	71	68	62
10086 - 1043 Sumner Ave	3/1/2023	41	6/5/2023	57	9/5/2023	63	12/5/2023	67	64	57
10075- Catalina Pump Station	3/1/2023	42	6/5/2023	59	9/5/2023	68	12/5/2023	67	65	59
	MCL = 8	0 (ppb)) Was OEL e		exceeded? ²	NO		Was M	CL exceeded?'	NO

C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹	LRAA
Sample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q4	LNAA
10081- Chapin St Pump Station	3/1/2023	47	6/5/2023	39	9/5/2023	40	12/5/2023	41	40	42
10082 -1400 State St Vibra/PV Hospital	3/1/2023	45	6/5/2023	54	9/5/2023	60	12/5/2023	74	66	58
10074 - 833 Page Blvd	3/1/2023	45	6/5/2023	51	9/5/2023	65	12/5/2023	71	65	58
10089- 292 Main Street	3/1/2023	46	6/5/2023	52	9/5/2023	59	12/5/2023	71	63	57
10083- North Main Fire Station	3/1/2023	45	6/5/2023	54	9/5/2023	60	12/5/2023	87	72	62
10085 - Center Street Fire Station	3/1/2023	51	6/5/2023	55	9/5/2023	62	12/5/2023	56	57	56
10086 - 1043 Sumner Ave	3/1/2023	54	6/5/2023	54	9/5/2023	65	12/5/2023	80	70	63
10075- Catalina Pump Station	3/1/2023	51	6/5/2023	59	9/5/2023	74	12/5/2023	78	72	66
	MCL = 6	0 (ppb)	Was OEL exceeded		exceeded? ² YES Was MCL ex		CL 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)
- ²OELs apply to systems sampling quarterly only.
- PWS has exceeded the OEL for TTHM and/OR HAA5 and must <u>complete and submit an Operational Evaluation</u>
- **<u>Report</u>** 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 <u>NO LONGER QUALIFIES</u> for reduced monitoring based on average concentrations of TTHM, HAA5 and/or TOC. (*Refer to quarterly monitoring criteria on "Instructions" Tab*)
- PWS has exdeeded the MCL for TTHM or HAA5 during ANNUAL monitoring and therefore will be subject to <u>INCREASED</u> <u>monitoring</u> (quarterly dual sample sets at each location) until further notice.

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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

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

SYSTEMS USING OZONATION - COMPLETE TABLE F

				Plant 1	Plant 2	Plant 3	Plant 4
F.		Pla	ant Name:				
		MONTH YEAR		Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)
		January					
Ĺ.	Q1	February					
water)		March					
		April					
per	Q2	Мау					
(finished		June					
(fin		July					
	Q3	August					
AT		September					
BROMATE		October					
3R(Q4	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 (CI 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: