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

1281000	S	pringfield Water &	Sewer Commis	ssion		Springfield & Ludlow
PWSID:	PWS Name:				-	City/Town:
● COM ○ NTNC	Monitoring Frequ	ency: Quarterly	O Annual or les	Monitoring	Type: Ro	outine Reduced Increased
CERTIFICATION: I certify law that I am the person	authorized to fill out	YEAR: 2023	QUARTER: 0	1: Jan-Mar 🔘 (2: Apr-Jun	● Q3: Jul-Sep ○ Q4: Oct-Dec
this form and the inform herein is true, accurate a	and complete to the					
best extent of my knowl	edge.	Primary Operator Signat	ture:			Date:

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

A. CHLORINE RESIDUAL COMPLIANCE

	A. CHEOKINE REGIDORE COMI LIANCE							
	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						
	October	2022	305	0.69				
Q4	November	2022	299	0.73				
	December	2022	308	0.75				

0 66	Chlorine Running Annual Average (RAA): (Average of 12 Monthly Averages)
4.0	Chlorine MRDL (ppm):
N()	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	Q3	LKAA
10081- Chapin St Pump Station	3/1/2023	49	6/5/2023	69	9/5/2023	71	12/1/2022	85	65	69
10082 -1400 State St Vibra/PV Hospital	3/1/2023	37	6/5/2023	57	9/5/2023	61	12/1/2022	72	54	57
10074 - 833 Page Blvd	3/1/2023	36	6/5/2023	53	9/5/2023	62	12/1/2022	72	53	56
10089- 292 Main Street	3/1/2023	37	6/5/2023	55	9/5/2023	59	12/1/2022	71	53	56
10083- North Main Fire Station	3/1/2023	35	6/5/2023	53	9/5/2023	56	12/1/2022	70	50	54
10085 - Center Street Fire Station	3/1/2023	44	6/5/2023	64	9/5/2023	67	12/1/2022	78	61	63
10086 - 1043 Sumner Ave	3/1/2023	41	6/5/2023	57	9/5/2023	63	12/1/2022	74	56	59
10075- Catalina Pump Station	3/1/2023	42	6/5/2023	59	9/5/2023	68	12/1/2022	77	59	62
	MCL = 8	0 (ppb)	Was OEL exceeded? ²			NO		Was M	CL exceeded?1	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	Q3	LNAA
10081- Chapin St Pump Station	3/1/2023	47	6/5/2023	39	9/5/2023	40	12/1/2022	38	42	41
10082 -1400 State St Vibra/PV Hospital	3/1/2023	45	6/5/2023	54	9/5/2023	60	12/1/2022	66	55	56
10074 - 833 Page Blvd	3/1/2023	45	6/5/2023	51	9/5/2023	65	12/1/2022	65	57	57
10089- 292 Main Street	3/1/2023	46	6/5/2023	52	9/5/2023	59	12/1/2022	70	54	57
10083- North Main Fire Station	3/1/2023	45	6/5/2023	54	9/5/2023	60	12/1/2022	67	55	57
10085 - Center Street Fire Station	3/1/2023	51	6/5/2023	55	9/5/2023	62	12/1/2022	57	58	56
10086 - 1043 Sumner Ave	3/1/2023	54	6/5/2023	54	9/5/2023	65	12/1/2022	77	60	63
10075- Catalina Pump Station	3/1/2023	51	6/5/2023	59	9/5/2023	74	12/1/2022	71	65	64
	MCL = 6	(daa) 0	ĺ	Was OEL	exceeded?2	YES		Was Mo	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.

- WS has exceeded the OEL for TTHM and/OR HAA5 and must <u>complete and submit an Operational Evaluation</u>

 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 exdeeded 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.

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1001000		
1281000	Springfield Water & Sewer Commissio	n Springfield & Ludlow
PWSID:	PWS Name:	Citv/Town:

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

		Plant 1		Plant 2		Plant 3		Plant 4			
E.	Plant Name:										
		MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)						
		January									
	Q1	February									
		March									
water)		April									
/at	Q2	May									
>		June									
(raw		July									
ပ	Q3	August									
T0C		September									
l'		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	ınt Name:				
		MONTH	YEAR	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)	Monthly Avg (ppm)
		January					
Ē	Q1	February					
water)		March					
		April					
ed	Q2	May					
<u>is</u>		June					
(finished		July					
	Q3	August					
Α		September					
BROMATE		October					
188	Q4	November					
<u> </u>		December					
		Running Annu (Average of last 12 mon					
	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:	