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

1281000 PWSID:	S PWS Name:	pringfield Water	& Sewer Comm	ission	Springfield & Ludlow City/Town:
	Monitoring Frequ	ency: Quarterly	O Annual or le	Se Monitoring Type	e: Routine Reduced Increased
CERTIFICATION: I certify law that I am the person	authorized to fill out	YEAR: 2022		Q1: Jan-Mar 🔵 Q2: Ap	pr-Jun Q3: Jul-Sep Q4: Oct-Dec
this form and the inform herein is true, accurate a best extent of my knowle	nd complete to the	Primary Operator Sign	nature:		Date:

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

A. CHLORINE RESIDUAL COMPLIANCE

	Month	Year	# Samples	Monthly Avg (ppm)
	January	2022	304	0.72
Q1	February	2022	279	0.77
	March	2022	311	0.73
	April	2022	298	0.81
Q2	May	2022	302	0.75
	June	2022	315	0.69
	July	2022	307	0.75
Q3	August	2022	311	0.80
	September	2022	302	0.69
	October	2021	312	0.80
Q4	November	2021	301	0.66
	December	2021	311	0.65

0 7 4	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	Q3	LKAA
10081- Chapin St Pump Station	3/3/2022	87	6/2/2022	90	9/6/2022	89	12/2/2021	82	89	87
10082 -1400 State St Vibra/PV Hospital	3/3/2022	59	6/2/2022	83	9/6/2022	76	12/2/2021	81	74	75
10074 - 833 Page Blvd	3/3/2022	77	6/2/2022	76	9/6/2022	72	12/2/2021	76	74	75
10089- 292 Main Street	3/3/2022	73	6/2/2022	74	9/6/2022	73	12/2/2021	77	73	74
10083- North Main Fire Station	3/3/2022	77	6/2/2022	75	9/6/2022	70	12/2/2021	76	73	75
10085 - Center Street Fire Station	3/3/2022	83	6/2/2022	87	9/6/2022	87	12/2/2021	82	86	85
10086 - 1043 Sumner Ave	3/3/2022	86	6/2/2022	80	9/6/2022	78	12/2/2021	83	81	82
10075- Catalina Pump Station	3/3/2022	87	6/2/2022	87	9/6/2022	80	12/2/2021	87	84	85
	MCL = 80 (ppb) Was OEL e		exceeded? ²	YES		Was M	CL exceeded?1	YES		

C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹	LRAA
Cample Location	Date	ppb	Date	ppb	Date	ppb	Date	ppb	Q3	LNAA
10081- Chapin St Pump Station	3/3/2022	107	6/2/2022	72	9/6/2022	55	12/2/2021	73	73	78
10082 -1400 State St Vibra/PV Hospital	3/3/2022	109	6/2/2022	77	9/6/2022	81	12/2/2021	87	87	89
10074 - 833 Page Blvd	3/3/2022	107	6/2/2022	71	9/6/2022	63	12/2/2021	86	77	83
10089- 292 Main Street	3/3/2022	104	6/2/2022	82	9/6/2022	84	12/2/2021	84	88	88
10083- North Main Fire Station	3/3/2022	114	6/2/2022	79	9/6/2022	84	12/2/2021	84	89	89
10085 - Center Street Fire Station	3/3/2022	113	6/2/2022	79	9/6/2022	70	12/2/2021	80	82	85
10086 - 1043 Sumner Ave	3/3/2022	118	6/2/2022	78	9/6/2022	85	12/2/2021	93	92	94
10075- Catalina Pump Station	3/3/2022	114	6/2/2022	88	9/6/2022	70	12/2/2021	87	85	89
	MCL = 6	0 (ppb)	Was OEL exceeded?		exceeded? ²	YES		Was M	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).
- **D** 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 INCREASED monitoring (quarterly dual sample sets at each location) until further notice.

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

				Pla	ant 1	Pla	ant 2	Pla	ant 3	P	lant 4			
Ε.	Plant Name:													
		MONTH	YEAR	Monthly Avg (ppm)	Quarterly Avg (ppm)									
		January												
	Q1	February												
		March												
er)		April												
water)	Q2	May												
		June												
(raw		July												
U U	Q3	August												
TOC		September												
		October												
	Q4	November												
		December												
		Running Annu (Average of last 4 quart												

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					
Ĵ.	Q1	February					
water)		March					
≥		April					
Jed	Q2	Мау					
(finished		June					
fin		July					
	Q3	August					
BROMATE		September					
N		October					
L N N	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: