

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
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: 2021	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)	Quarterly Avg (ppm)		
Q1	January	2021	299	0.71	0.65	Min# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	266
	February	2021	280	0.58			
	March	2021	311	0.60			
Q2	April	2021	302	0.54	0.58	Minimum # of distribution samples tested in any month:	280
	May	2021	301	0.64			
	June	2021	303	0.56			
Q3	July	2021	320	0.67	0.76	Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	August	2021	310	0.82			
	September	2021	300	0.79			
Q4	October	2020	308	0.60	0.61	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.65
	November	2020	298	0.61			
	December	2020	314	0.62			
						Chlorine MRDL (ppm):	4.0
						Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO

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	3/2/2021	46.2	6/3/2021	75.8	9/2/2021	95.4	12/1/2020	68.2	78	71	
10082-1400 State St Vibra/PV Hospital	3/2/2021	37.6	6/3/2021	62.6	9/2/2021	89.7	12/1/2020	56.4	70	62	
10074 - 833 Page Blvd	3/2/2021	36.5	6/3/2021	62.1	9/2/2021	83.5	12/1/2020	54.2	66	59	
10089- 292 Main Street	3/2/2021	35.6	6/3/2021	62.3	9/2/2021	84.3	12/1/2020	52.1	67	59	
10083- North Main Fire Station	3/2/2021	35.5	6/3/2021	62.6	9/2/2021	80.2	12/1/2020	54.2	65	58	
10085 - Center Street Fire Station	3/2/2021	41.8	6/3/2021	68.9	9/2/2021	96.9	12/1/2020	62.9	76	68	
10086 - 1043 Sumner Ave	3/2/2021	38.7	6/3/2021	68.3	9/2/2021	90.1	12/1/2020	59.5	72	64	
10075- Catalina Pump Station	3/2/2021	42.9	6/3/2021	70.1	9/2/2021	95.0	12/1/2020	62.8	76	68	
MCL = 80 (ppb)		Was OEL exceeded? ¹				NO		Was MCL exceeded?:		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	3/2/2021	51.6	6/3/2021	65.1	9/2/2021	71.1	12/1/2020	39.5	65	57	
10082-1400 State St Vibra/PV Hospital	3/2/2021	51.2	6/3/2021	66.5	9/2/2021	96.9	12/1/2020	53.7	78	67	
10074 - 833 Page Blvd	3/2/2021	53.9	6/3/2021	63.6	9/2/2021	98.0	12/1/2020	54.2	78	67	
10089- 292 Main Street	3/2/2021	50.9	6/3/2021	62.8	9/2/2021	96.6	12/1/2020	51.0	77	65	
10083- North Main Fire Station	3/2/2021	55.1	6/3/2021	64.0	9/2/2021	101.0	12/1/2020	56.1	80	69	
10085 - Center Street Fire Station	3/2/2021	58.9	6/3/2021	69.2	9/2/2021	94.8	12/1/2020	52.9	79	69	
10086 - 1043 Sumner Ave	3/2/2021	53.7	6/3/2021	66.2	9/2/2021	101.3	12/1/2020	55.6	81	69	
10075- Catalina Pump Station	3/2/2021	53.9	6/3/2021	68.5	9/2/2021	93.9	12/1/2020	45.0	78	65	
MCL = 60 (ppb)		Was OEL exceeded? ¹				YES		Was MCL exceeded?:		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)

¹OELs apply to systems sampling quarterly only.

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DEFINITIONS	
Monthly Average:	Average of all results within the current month.
Quarterly Average:	Average of three monthly averages.
Running Annual Average (RAA):	Average of 4 quarters (12 consecutive months). <i>Average of this quarter and three prior consecutive quarterly averages.</i>
Total # of Samples:	Total number of samples collected during the monitoring period.
Locational Running Annual Average (LRAA):	RAA from the same 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:	
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