

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 type="radio"/> Q3: Jul-Sep <input checked="" 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		Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	June	2021	303	0.56			
Q3	July	2021	320	0.67	0.76	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.67
	August	2021	310	0.82			
	September	2021	300	0.79			
Q4	October	2021	312	0.80	0.70	Chlorine MRDL (ppm):	4.0
	November	2021	301	0.66		Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO
	December	2021	311	0.65			

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	12/2/2021	81.9	84	75
10082-1400 State St Vibra/PV Hospital	3/2/2021	37.6	6/3/2021	62.6	9/2/2021	89.7	12/2/2021	81.1	79	68
10074 - 833 Page Blvd	3/2/2021	36.5	6/3/2021	62.1	9/2/2021	83.5	12/2/2021	75.9	74	64
10089- 292 Main Street	3/2/2021	35.6	6/3/2021	62.3	9/2/2021	84.3	12/2/2021	77.2	75	65
10083- North Main Fire Station	3/2/2021	35.5	6/3/2021	62.6	9/2/2021	80.2	12/2/2021	76.0	74	64
10085 - Center Street Fire Station	3/2/2021	41.8	6/3/2021	68.9	9/2/2021	96.9	12/2/2021	82.2	83	72
10086 - 1043 Sumner Ave	3/2/2021	38.7	6/3/2021	68.3	9/2/2021	90.1	12/2/2021	83.3	81	70
10075- Catalina Pump Station	3/2/2021	42.9	6/3/2021	70.1	9/2/2021	95.0	12/2/2021	87.1	85	74
MCL = 80 (ppb)		Was OEL exceeded?¹				YES	Was MCL exceeded?:			NO

C. HAA5 COMPLIANCE

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		OEL ¹ Q4	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	12/2/2021	73.4	71	65
10082-1400 State St Vibra/PV Hospital	3/2/2021	51.2	6/3/2021	66.5	9/2/2021	96.9	12/2/2021	87.4	85	76
10074 - 833 Page Blvd	3/2/2021	53.9	6/3/2021	63.6	9/2/2021	98.0	12/2/2021	86.0	83	75
10089- 292 Main Street	3/2/2021	50.9	6/3/2021	62.8	9/2/2021	96.6	12/2/2021	84.0	82	74
10083- North Main Fire Station	3/2/2021	55.1	6/3/2021	64.0	9/2/2021	101.0	12/2/2021	83.8	83	76
10085 - Center Street Fire Station	3/2/2021	58.9	6/3/2021	69.2	9/2/2021	94.8	12/2/2021	79.5	81	76
10086 - 1043 Sumner Ave	3/2/2021	53.7	6/3/2021	66.2	9/2/2021	101.3	12/2/2021	92.8	88	78
10075- Catalina Pump Station	3/2/2021	53.9	6/3/2021	68.5	9/2/2021	93.9	12/2/2021	86.5	84	76
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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