

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: 2018 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: 1/10/2019

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	2018	246	0.55	0.54	Min# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	120
	February	2018	224	0.57			
	March	2018	247	0.51			
Q2	April	2018	237	0.49	0.53	Minimum # of distribution samples tested in any month:	224
	May	2018	254	0.55		Collected < Minimum # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	June	2018	264	0.56			
Q3	July	2018	302	0.66	0.66	Running Annual Average (RAA) (Average of 4 Quarterly Averages):	0.62
	August	2018	310	0.62			
	September	2018	294	0.70			
Q4	October	2018	312	0.68	0.74	Chlorine MRDL (ppm):	4.0
	November	2018	301	0.76		Was Chlorine MRDL exceeded? If Yes, then MRDL violation for period.	NO
	December	2018	305	0.78			

B. TTHM 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			
Chapin St Pump Station	3/6/2018	44.0	6/5/2018	59.0	9/4/2018	74.0	12/6/2018	71.0	68.8	62.0	
Parkview Specialty Hospital	3/6/2018	36.0	6/5/2018	46.0	9/4/2018	56.0	12/6/2018	52.0	51.5	47.5	
833 Page Blvd	3/6/2018	35.0	6/5/2018	46.0	9/4/2018	52.0	12/6/2018	50.0	49.5	45.8	
322 Main Street	3/6/2018	36.0	6/5/2018	46.0	9/4/2018	54.0	12/6/2018	53.0	51.5	47.3	
North Main Fire Station	3/6/2018	34.0	6/5/2018	45.0	9/4/2018	56.0	12/6/2018	49.0	49.8	46.0	
Center Street Fire Station	3/6/2018	40.0	6/5/2018	52.0	9/4/2018	65.0	12/6/2018	64.0	61.3	55.3	
Sumner Ave Fire Station	3/6/2018	37.0	6/5/2018	49.0	9/4/2018	58.0	12/6/2018	61.0	57.3	51.3	
Catalina Pump Station	3/6/2018	43.0	6/5/2018	54.0	9/4/2018	64.0	12/6/2018	67.0	63.0	57.0	
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 Q4	LRAA	
	Date	ppb	Date	ppb	Date	ppb	Date	ppb			
Chapin St Pump Station	3/6/2018	55.0	6/5/2018	36.0	9/4/2018	63.0	12/6/2018	82.0	65.8	59.0	
Parkview Specialty Hospital	3/6/2018	59.0	6/5/2018	50.0	9/4/2018	65.0	12/6/2018	93.0	75.3	66.8	
833 Page Blvd	3/6/2018	56.0	6/5/2018	50.0	9/4/2018	60.0	12/6/2018	89.0	72.0	63.8	
322 Main Street	3/6/2018	45.0	6/5/2018	46.0	9/4/2018	57.0	12/6/2018	84.0	67.8	58.0	
North Main Fire Station	3/6/2018	59.0	6/5/2018	45.0	9/4/2018	60.0	12/6/2018	90.0	71.3	63.5	
Center Street Fire Station	3/6/2018	60.0	6/5/2018	47.0	9/4/2018	49.0	12/31/2018	68.0	58.0	56.0	
Sumner Ave Fire Station	3/6/2018	50.0	6/5/2018	49.0	9/4/2018	57.0	12/6/2018	80.0	66.5	59.0	
Catalina Pump Station	3/6/2018	58.0	6/5/2018	50.0	9/4/2018	51.0	12/31/2018	68.0	59.3	56.8	
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:	Center St. Fire Station and Catalina Pump Station were resampled because original samples were not valid due to quality control surrogate samples outside of control limits at testing laboratory.
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