

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

PWSID: **2185000** City/Town: **Milford**
 PWSNAME: **Milford Water Company** Class: COM NTNC

REPORTING PERIOD: YEAR: **2012** QUARTER: (check one) Q1:Jan-Mar Q2:Apr-Jun Q3:Jul-Sep Q4:Oct-Dec
 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.
 Primary Operator Signature: *Bernard E. Madole* Date: 4-6-12

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

A. CHLORINE RESIDUAL COMPLIANCE	MONTH	YEAR	# Samples	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Min.# of Cl ₂ distribution samples required per Month: (Same location and frequency as TCR distribution sites).	39
	Q1	January	2012	52	0.30	0.29	Minimum # of distribution samples tested in any month:
February		2012	52	0.30			
March		2012	52	0.26			
Q2	April	2011	39	0.47	0.45	Collected < Min # of distribution samples? If Yes, then Failure to Monitor Violation for period.	NO
	May	2011	55	0.33			
	June	2011	58	0.54			
Q3	July	2011	68	0.56	0.42	Running Annual Average (RAA) (Avg of 4 Quarterly Avgs):	0.35
	August	2011	52	0.42			
	September	2011	52	0.27			
Q4	October	2011	52	0.20	0.26	Chlorine MRDL (ppm):	4.0
	November	2011	52	0.28			
	December	2011	52	0.29			
						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)		Stage 2 LRAA ¹
		DATE	ppb	DATE	ppb	DATE	ppb	DATE	ppb	
1	01 - 266 Purchase Street									
2	02 - 230 Main Street									
3	03 - 1 Countryside Drive									
4	04 - 22 Beaver Street									
5	06 - 159 South Main Street	SEE ATTACHED								
6										
7										
8										
9										
10										
11										
12										
Quarterly Avg.:										
Running Annual Avg.:				MCL = 80 (ppb)		Was MCL exceeded?:				

C. HAA5 COMPLIANCE	SAMPLE LOCATION	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		Stage 2 LRAA ¹
		DATE	ppb	DATE	ppb	DATE	ppb	DATE	ppb	
1	01 - 266 Purchase Street	2/23/2012	15.7	6/28/2011	8.1	9/22/2011	6.7	12/23/2011	10.4	10.2
2	02 - 230 Main Street	2/23/2012	29.2	6/28/2011	64.0	9/22/2011	72.2	12/23/2011	31.1	49.1
3	03 - 1 Countryside Drive	2/23/2012	32.6	6/28/2011	13.0	9/22/2011	24.0	12/23/2011	20.8	22.6
4	04 - 22 Beaver Street	2/23/2012	35.2	6/28/2011	31.0	9/22/2011	38.3	12/23/2011	37.2	35.4
5	06 - 159 South Main Street	2/23/2012	7.1	6/28/2011	8.5	9/22/2011	4.0	12/23/2011	2.2	5.5
6										
7										
8										
9										
10										
11										
12										
Quarterly Avg.:		24.0		24.9		29.0		20.3		
Running Annual Avg.:		25		MCL = 60 (ppb)		Was MCL exceeded?:		NO		

TYPE OF THM/HAA5 MONITORING If any marked YES below, then THM/HAA5 reduced monitoring criteria not met.

<input checked="" type="checkbox"/> Routine:	TTHM RAA > 40 ppb?	<input type="checkbox"/>	HAA5 RAA > 30 ppb?	<input type="checkbox"/> NO	TOC(raw) RAA > 4.0 ppm?	<input type="checkbox"/> YES
<input type="checkbox"/> Reduced:	TTHM RAA > 60 ppb?	<input type="checkbox"/>	HAA5 RAA > 45 ppb?	<input type="checkbox"/> NO	TOC(raw) RAA > 4.0 ppm?	<input type="checkbox"/> YES

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FOR SURFACE OR GWUDI SYSTEMS >499 SEEKING OR ON REDUCED THM/HAA5 MONITORING COMPLETE TABLE D

D. Plant Name:			Plant 1		Plant 2		Plant 3		Plant 4		
TOC (raw water)	MONTH	YEAR	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	
	Q1	January	2012	off	9.30	3.97	3.76	2.50	2.29		
		February	2012	off		3.80		2.59			
		March	2012	off		3.50		1.77			
	Q2	April	2011	7.10	9.30	2.80	2.60	3.80	3.40		
		May	2011	8.80		2.40		4.30			
		June	2011	12.00		2.60		2.10			
	Q3	July	2011	5.50	9.57	3.45	4.01	2.81	3.15		
		August	2011	10.50		4.08		2.89			
		September	2011	12.70		4.49		3.76			
Q4	October	2011	off	9.57	3.94	3.64	2.56	2.57			
	November	2011	off		2.93		1.59				
	December	2011	off		4.06		3.57				
Running Annual Avg.:			9.4		3.5		2.9				

FOR SYSTEMS USING OZONATION COMPLETE TABLE E

Bromide monitoring is only required for systems seeking or on reduced Bromate monitoring.

E. Plant Name:			Bromate (treated)		Bromide (raw)		Bromate (treated)		Bromide (raw)		
BROMATE/BROMIDE	MONTH	YEAR	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	Monthly Avg.(ppm)	Quarterly Avg.(ppm)	
	Q1	January									
		February									
		March									
	Q2	April									
		May									
		June									
	Q3	July									
		August									
		September									
Q4	October										
	November										
	December										
Running Annual Avg.:											
Bromate MCL = 0.010 ppm			Bromate RAA > 0.010 ppm?	Bromide RAA ≥ 0.05 ppm?	Bromate RAA > 0.010 ppm?	Bromide RAA ≥ 0.05 ppm?					
			If Yes, then MCL violation for period.	If Yes, then reduced Bromate monitoring criteria not met.	If Yes, then MCL violation for period.	If Yes, then reduced Bromate monitoring criteria not met.					

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):	Average of 4 quarters from the <u>same</u> sample location. <i>A future Stage 2 DBPR requirement - The LRAA for TTHM & HAA5 must meet MCL limits.</i>
Note: Record and calculate all ND or < MDL results as the number 0 (zero).	

COMMENTS:

TOTAL TRIHALOMETHANES: RAA MCL = 80 PPB

MILFORD WATER COMPANY

Location:	QA	RAA	DBP01 266 Purchase St.	DBP02 230 Main St.	DBP03 1 Countryside Dr.	DBP04 22 Beaver St.	DBP06 159 South Main St.
Q2-2010 (06/09/10):	86.80	75	92.0	79.0	96.0	87.0	80.0
Q3-2010 (09/29/10):	70.80	69	69.0	77.0	80.0	77.0	51.0
Q4-2010 (12/21/10):	106.60	81	96.0	110.0	97.0	130.0	100.0
Q1-2011 (03/08/11):	67.60	83	99.0	58.0	55.0	73.0	53.0
Q2-2011 (06/28/11):	83.80	82	90.0	61.0	100.0	92.0	76.0
Q3-2011 (08/04/11):	105.65	91	125.1	76.5	122.5	112.0	127.0
Q3-2011 (08/25/11):			121.4	87.2	122.5	110.0	114.1
Q3-2011 (09/22/11):			98.8	89.4	105.6	94.2	78.5
Q4-2011 (12/23/11):	61.68	80	68.2	53.4	72.5	59.1	55.2
Q1-2012 (02/23/12):	60.42	78	90.0	56.7	87.5	46.9	73.9
Q1-2012 (03/09/12):			64.3	43.2	61.9	36.4	43.4
Q2-2012 (##/##/12):	#DIV/0!						
Q3-2012 (##/##/12):	#DIV/0!						
Q4-2012 (##/##/12):	#DIV/0!						