NEW HAMPSHIRE DEPARTMENT OF Environmental Services

D/DBP QUARTERLY REPORT

For surface water systems using chlorine or chloramine disinfection
Form to be submitted to DWGB by 10th day following each calendar quarter

Quarter (circle) **(1) 2 3 4** **YEAR 20 19**

System **Exeter Water Department** **PWSID:** **0801010**

Total Trihalomethane Monitoring TTHM - Refer top DBP Sample Plan/Water Quality Schedule for Sample Locations

Location→	321		322		323		324	
	Sample Date	ppb	Sample Date	ppb	Sample Date	ppb	Sample Date	ppb
1st Qtr	Jan 8, '19	40.5	Jan 8, '19	43.7	Jan 8, '19	51.9	Jan 8, '19	38.5
2nd Qtr	Apr 4, '18	53.9	Apr 4, '18	36.1	Apr 4, '18	54.1	Apr 4, '18	43.0
3rd Qtr	Jul 9, '18	143.9	Jul 9, '18	171.5	Jul 9, '18	88.4	Jul 9, '18	84.1
4 th Qtr	Oct 3, '18	135.0	Oct 3, '18	162.9	Oct 3, '18	115.8	Oct 3, '18	85.7
	Loc. Run Avg:	93.3	Loc. Run Avg:	103.6	Loc. Run Avg:	77.6	Loc. Run Avg:	62.8

Was MCL (0.080 mg/L or 80 ppb) for TTHM exceeded? **YES** NO

Haloacetic Acids Monitoring HAA5 - Refer top DBP Sample Plan/Water Quality Schedule for Sample Locations

Location→	321		322		323		324	
	Sample Date	ppb	Sample Date	ppb	Sample Date	ppb	Sample Date	ppb
1st Qtr	Jan 8, '19	34.6	Jan 8, '19	31.6	Jan 8, '19	46.4	Jan 8, '19	38.4
2nd Qtr	Apr 4, '18	40.5	Apr 4, '18	20.4	Apr 4, '18	33.7	Apr 4, '18	32.5
3rd Qtr	Jul 9, '18	47.4	Jul 9, '18	98.0	Jul 9, '18	24.5	Jul 9, '18	51.4
4 th Qtr	Oct 3, '18	37.4	Oct 3, '18	58.0	Oct 3, '18	30.1	Oct 3, '18	30.5
	Loc. Run Avg:	40.0	Loc. Run Avg:	52.0	Loc. Run Avg:	33.7	Loc. Run Avg:	38.2

Was MCL (0.060 mg/L or 60 ppb) for HAA5 exceeded? YES **NO**

B. CHLORINE OR CHLORAMINE RESIDUAL

Number of samples taken each of the last 3 months: 10 10 10
(Must be equal to number of TCR routine samples)

Monthly average chlorine residual last 12 months: 0.893 mg/L

	Month	Monthly avg. residual (mg/L)		Month	Monthly avg. residual (mg/L)
Month 1	APR 2018	0.869	Month 7	OCT 2018	0.730
Month 2	MAY 2018	0.902	Month 8	NOV 2018	0.904
Month 3	JUN 2018	1.048	Month 9	DEC 2018	0.939
Month 4	JUL 2018	0.763	Month 10	JAN 2019	0.904
Month 5	AUG 2018	1.016	Month 11	FEB 2019	0.956
Month 6	SEP 2018	0.768	Month 12	MAR 2019	0.920
				Ave. of last 12 months	0.893

Was the MDRL (4.0 mg/L) violated? (circle one) YES **NO**

C. DISINFECTION BYPRODUCT PRECURSORS (systems with conventional treatment only)

1. Which of the alternate compliance criteria does the system comply with this quarter, if any (check one)? Supply information in the blanks for the selected criterion and complete columns (1) through (5) in 2. below. If no alternate compliance criterion is selected, go to 2. and complete all columns.

❒ The system's source water TOC RAA level is less than 2.0 mg/L. Source water RAA TOC: _____

❒ The system's treated water TOC RAA level is less than 2.0 mg/L. Treated water RAA TOC: _____

❒ The system's source water TOC RAA level is less than 4.0 mg/L; the source water alkalinity RAA is greater than 60 mg/L (as CaCO3); and the TTHM and HAA5 RAAs are no greater than 40 / 30 ppb, respectively.
Source water RAA TOC: _____ mg/L. RAA source water alkalinity _____ mg/L.
TTHM RAA _____ppb HAA5 RAA _____ppb

❒ The TTHM and HAA5 RAAs are no greater than 40 / 30 ppb, respectively, and the system uses only chlorine for primary disinfection and maintenance of a residual in the distribution system.
TTHM RAA _____ppb HAA5 RAA _____ppb

❒ The system's source water SUVA RAA prior to any treatment is less than or equal to 2.0 L/mg-m. Source water SUVA RAA:_____

❑ The system's finished water SUVA RAA is less than or equal to 2.0 L/mg-m. Finished water SUVA RAA:_____

Is the system in compliance with the selected alternate compliance criterion? (circle one) **Yes** **No**

2. Number of paired samples this quarter ___3___

	Date (1)	Raw Alk. mg/L (2)	Raw TOC mg/L (3)	Filtered TOC mg/L (4)	% TOC Removal [a] (5)	% Req. TOC Removal [b] (6)	Ratio [c] (5) / (6) (7)
Month 1	Jan 8, '19	25.5	4.6	1.9	58.696	45	1.304
Month 2	Feb 6, '19	26.0	3.4	1.5	55.882	35	1.597
Month 3	Mar 6, '19	26.5	3.1	1.5	51.613	35	1.475

Notes:
a. Monthly TOC removal = 1 - (filtered TOC / Raw TOC)) X 100
b. From Step 1 TOC Removal Table or from step 2 determination
c. If this number is less than 1.00, the system is not in compliance with the TOC removal requirement

3. (Complete only if alternate criterion in 1 is not selected as means of compliance.) **Has the System been in compliance with the % removal requirement over the last 4 quarters?** (circle one) **YES** NO

Prepared by (primary operator): Paul A Roy, Date: _____