## 2016 Drinking Water Consumer Confidence Report (Supplemental Data)

#### CITY OF ROCHESTER

#### Introduction

The Rochester Water Bureau has prepared the following report to provide information to you, the consumer, on the quality of our drinking water. Included within this report is general health information, water quality test results, and water system contacts.

This year, as in years past, your tap water met all USEPA and state drinking water health standards. Our system vigilantly safeguards its surface water supply, and we are able to report that the department had no violation of a contaminant level or of any other water quality standard in the previous year. This report summarizes the quality of water that we provided last year, including details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. We are committed to providing you with this information because informed customers are our best allies.

#### Source Water Information.

The City of Rochester Distribution System receives its drinking water from the Hemlock and Shoremont Water Filtration Plants located in Livingston and Monroe Counties.

## What are sources of contamination to drinking water?

As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

#### Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations
- (B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban Storm water runoff, and septic systems
- (E) Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, USEPA and State of New York prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. The presence of some contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

## About your drinking water and the data in this report.

The EPA requires regular sampling to ensure drinking water safety. The City of Rochester Water Bureau conducts sampling for bacteriological; inorganic; radiological; synthetic organic and volatile organic contaminants. Samples were collected in 2015 for almost 200 different contaminants most of which were not detected in the City of Rochester water supply. The EPA requires us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though accurate, is more than one year old.

### 2015 Lead and Copper Survey.

The lead and copper rule is one of the many federal and state regulations that exist to ensure the quality and safety of everyone's drinking water. The City of Rochester Public Water Supply is in compliance with these regulations. The City of Rochester is required by the EPA and the State of New York to sample for lead and copper every three years. This involved sampling 58 locations within the distribution system. Samples were collected from locations where the highest levels of these contaminants were likely to be found. The most recent survey was completed in 2015, and the next survey is scheduled for 2018. 3 out of 58 locations exceeded the lead action level of 15 ug/L and 0 out of 58 locations exceeded the copper action level of 1300 ug/L in the most recent survey.

Unregulated Contaminant Monitoring Rule 3 (UCMR3).

The 1996 Safe Drinking Water Act (SDWA) amendments require that once every five years EPA issue a new list of no more than 30 unregulated contaminants to be monitored by public water systems. UCMR3 was published on May 2, 2012 and required public water systems to participate in monitoring between 2013 and 2015. The monitoring results will provide the basis for future regulatory actions to protect public health. The City of Rochester participated in UCMR3 in 2015. The next rule (UCMR4) was published in 2016 and UCMR4 monitoring is expected to begin in January 2018.

#### Laboratory Accreditation.

The City of Rochester Water Quality Laboratory (New York State Department of Health Lab ID#10239) is approved as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (NELAC; 2003) for the Category ENVIRONMENTAL ANALYSIS POTABLE WATER. All tests results generated for this report were performed in accordance with approved methods by the City of Rochester Water Quality Laboratory or by a NELAC contract laboratory certified for drinking water analysis. Monroe County Water Authority data was provided courtesy of the MCWA Water Quality Laboratory.

### Sample Locations.

Samples analyzed for this report were collected at the Entry Point (Water leaving the filtration plant) or within the Distribution System (Network of pipes and storage facilities downstream of the filtration plant that are used to deliver potable water to the consumer).

Contact Information.

For more information on your drinking water contact:

Hemlock Filtration Plant at 585-428-6680 or 585-428-647
Laboratory Director/Water Quality Chemist at 585-428-6011
New York State Department of Health at 1-800-458-1158 (within New York State)
EPA Safe Drinking Water Hotline at 1-800-426-4791

# Definitions of some terms contained within this report.

Maximum Contaminant Level Goal (MCLG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. MCLG's are not enforceable.
Maximum Contaminant level (MCL):	The highest level of contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. MCLs are enforceable. Permissible contaminant levels identified in this report are either EPA (Federal) or New York State MCLs.
Secondary MCL:	A secondary standard is a non-enforceable guideline that may cause aesthetic effects such as changes to the taste, odor or color of drinking water.
Action Level (AL):	The concentrations of a contaminant, which, when exceeded triggers additional treatment, or other requirements, that a water system must follow.
LRAA:	The annual average contaminant concentration at a monitoring site. A.k.a. Locational Running Annual Average.
Maximum Residual Disinfectant Level (MRDL):	The highest level of disinfectant that is allowed in drinking water.
MFL:	Millions of fibers per liter. A units of measure for asbestos fibers longer than 10 micrometers.

Milligrams per Liter (mg/L):	A unit of measure for concentration of a contaminant that is also referred to as parts per million. Analogy: A part per million corresponds to one second in a little over 11.5 days.
Micrograms per Liter (μg/L):	A unit of measure for concentration of a contaminant that is also referred to as parts per billion. Analogy: A part per billion corresponds to one second in 31.7 years.
Nanograms per Liter (ng/L):	A unit of measure for concentration of a contaminant that is also referred to as parts per trillion. Analogy: A part per trillion corresponds to one second in 32,000 years.
NTU:	Nephelometric turbidity units. A measure of water clarity. Turbidity in excess of 5 NTU is just noticeable to the average person.
Treatment Technique (TT):	A required process intended to reduce the level of a contaminant in drinking water.
The "<"symbol:	A symbol which means less than. A result of <5 means that the lowest level that could be detected was 5 and the contaminant in that sample was not detected.
NA	Not applicable.
ND	Not detected.

# The City of Rochester had no reporting violations in 2016.

This summary contains results for both detected and non-detected contaminants. Information on health effects is provided for detected contaminants only.

# **Monitoring Results**

		Her	nlock Water	Filtration Pla	ant			Monroe County Water Authority				
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	No. Tests	Minimum	Avg	Maximum
Alpha emitters (pCi/L)	2009	2		ND		0	15	N	1 (2012)		ND	
Uranium, Total (ug/L)	2009	2		ND		0	30	N	1 (2012)		ND	
Radium 226 & 228 (pCi/L)	2009	2		ND		0	5	Ν	1 (2012)		ND	

# Microbiological Contaminants (Entry Point)

		He	emlock Water	Filtration Pla	ant				Mo	Monroe County Water Authority			
Contaminant (units)	Sample Year	No. Tests		Total No. Positive	% Positive	MCLG	MCL	Violation	No. Tests		Total No. Positive	% Positive	
Finished Water Coliform, Total (P/A)	2016	360		1	0.3	N/A	TT	N	http://www.mcwa.com/				
E.Coli (P/A)	2016	360		0	0.0		0	N	http://www.mcwa.com/				

Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	No. Tests	Minimum	Avg	Maximum
Raw Water Cryptosporidium (Oocysts/L)	2016	12	0.00	0.00	0.00	0	TT	N	12	0.00	0.00	0.00
Raw Water Giardia (Oocysts/L)	2016	12	0.00	0.00	0.00	0	TT	N	12	0.00		0.05
Finished Water Turbidity (NTU)	2016	2,186	0.05	0.07	0.23		TT (mo. avg <0.3NTU for 95% of samples)	N (100%)	2,196	0.03	0.05	0.08

Health Effect:

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. Please pay special attention to the additional statement in this document regarding Cryptosporidium.

Microbiological Contan	ninants (I	Distribution	System)									
Contaminant (units)	Sample Year	No. Tests	Total No. Positive	Highest Month % Positive	% Positive Annual Avg	MCLG	MCL	Violation				
Coliform, Total (P/A)	2016	2,060	14	2.6 (6/2016)	0.7	N/A	ТТ	N				
Health Effect:	potentially-	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, totentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a varning of potential problems. Coliforms were NOT found in more samples than allowed.										
E. Coli (P/A)	2016	2,060	0	NA	0.0			N				

Cyptosporidium and Giardia samples collected from reservoir effluent PRIOR to chlorination

Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation
Highland Reservoir Cryptosporidium (Oocysts/L)	2016	25	0.00	0.00	0.00	0	П	N
Highland Reservoir Giardia (Oocysts/L)	2016	25	0.00	0.00	0.00	0	ТТ	N
Cobbs Hill Reservoir Cryptosporidium (Oocysts/L)	2016	26	0.00	0.00	0.02	0	П	N
Health Effect:	Gastrointe	stinal illness, C	Cryptosporidios	sis.				
Cobbs Hill Reservoir Giardia (Oocysts/L)	2016	26	0.00	0.00	0.00	0	П	N
Turbidity (NTU)	2016	2,086	0.04	0.14	4.00		TT (mo. avg <5NTU)	N

# Inorganic Contaminants (Entry Point)

		H	emlock Water	Filtration Pl	ant				Monroe County Water Authority			
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	No. Tests	Minimum	Avg	Maximum
Alkalinity (CaCO3) (mg/L)	2016	10	67	72	78			N	4	85	88	92
Health Effect:	Alkalinity h	as no health	effect. It is a n	neasure of a	waters ability t	o neutraliz	e acid.					
Calcium (mg/L)	2016	12	24	25	27			N	4	33	34	36
Health Effect:			concentration bation on plumb		ts the result to	a value ex	pressed as mg/L of	calcium hardn	ess (as C	aCO3). Calci	um hardnes	s can
Chloride (mg/L)	2016	11	35	37	41			N	4	25	26	26
Health Effect:	chloride co	ncentration le		ter contribute	to the deterio		water may become omestic plumbing and					
Sulfate (mg/L)	2016	9	11	12	13			N	4	26	27	28
Health Effect:	and heat ear usually not	xchangers; (2 ed in transier	2) sulfates cause nt users of a wa	se taste effect ater supply b	ts; and (3) sul ecause people	fates can c who are a	containing apprecial ause laxative effects ccustomed to high s near 750 mg/l.	with excessiv	e intake.	The laxative e	ffect of sulfa	ates is
Color (Apparent) (Color Unit)	2016	5	<5	<5	<5	, ,	15	N	4		ND	
Fluoride (mg/L)	2016	897	0.09	0.71	0.82			N	2,095	0.20	0.70	2.10
Health Effect:	MCL. The and tender than nine y	EPA MCL is ness of the b	4 mg/L. Some ones. Fluoride ottling also kno	people who in drinking w	drink water co ater at concer	ntaining flu ntrations of	e fluoride concentrate oride in excess of 4 and 2 mg/L or more may own staining and/or	mg/L over mai cause mottlin	ny years o	ould get bone en's teeth, us	e disease, in sually in chil	cluding pain dren less
Nitrate/Nitrite (mg/L)	2016	8	0.01	0.06	0.19	10	10	N			NA	
Health Effect:			six months wheath and blue-b			trate in exc	ess of the MCL coul	d become ser	iously ill a	nd, if untreate	d, may die.	Symptoms

# **Inorganic Contaminants (Entry Point)**

		Н	lemlock Water	r Filtration P	lant				Monroe County Water Authority			
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	No. Tests	Minimum	Avg	Maximum
Sodium (mg/L)	2016	1		20			50	N	4	14	15	15
Health Effect:							ing by people on s y restricted sodiun		cted sodiu	n diets. Water	containing r	more than
Aluminum (ug/L)	2016	1		6.2			200	N	4	32	84	180
Health Effect:	High levels of (=200 ug/L)			lored water.	The EPA Seco	ondary Dri	nking Water Regu	lations recon	nmend a m	aximum conce	ntration of 0	.2 mg/L
Antimony (ug/L)	2016	1		ND		6	6	N	4		ND	
Arsenic (ug/L)	2016	1		ND		0	10	N	4		ND	
Barium (ug/L)	2016	1		17		2000	2000	N	4	20	23	27
Health Effect:	Some people	e who drink	water containii	ng barium in	excess of the	MCL over	many years could	experience	an increase	in their blood	pressure.	I.
Beryllium (ug/L)	2016	1		ND		4	4	N	4		ND	
Cadmium (ug/L)	2016	1		ND		5	5	N	4		ND	
Chromium, Total (ug/L)	2016	1		ND		100	100	N	4		ND	
Health Effect:	Some people point was als	e who use w so tested in	vater containing the UCMR3 su	g chromium v ırvey. Those	vell in excess results for tot	of the MC al chromic	L over many years im are reported se	could exper parately in th	ience allero ne UCMR3	gic dermatitis. Table below.	Total chrom	ium for entry
Copper (ug/L)	2016	1		4		1300	1300	N	4		ND	
Health Effect:	experience of	gastrointesti	utrient, but sor nal distress. So with Wilson's	ome people v	ho drink wate	er containii	g copper in excessing copper in excession doctor.	of the action ss of the action	n level over on level ove	a relatively sher many years	ort amount o	of time could liver or
Cyanide (mg/L)	2016	1		ND		0.2	0.2	N	4		ND	
Lead (ug/L)	2016	1		ND		0	15	N	4		ND	

		Hemlock Water Filtration Plant							Monroe County Water Authority			
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	No. Tests	Minimum	Avg	Maximum
Manganese (ug/L)	2016	1		ND			50	N	4		ND	
Nickel (ug/L)	2016	1		ND			100	N	4		ND	
Selenium (ug/L)	2016	1		ND		50	50	N	4		ND	
Silver (ug/L)	2016	1		ND			100	N	4		ND	
Thallium (ug/L)	2016	1		ND		0.5	2	N	4		ND	
Zinc (ug/L)	2016	1		ND			5000	N	4		ND	
Mercury (ug/L)	2016	1		ND		2	2	N	4		ND	

Inorganic Contaminants (D	istribution	System)							
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	
Fluoride (mg/L)	2016	322	0.13	0.67	0.87			N	
1776 Dewey Ave Asbestos (MFL)	2014	1		ND		7	7	N	
Lead and Copper Survey (I	Distribution	System)				<u>I</u>	l	<u> </u>	
Contaminant (units)	Sample Year	No. Locations	Minimum	Avg	Maximum	90th Percentile	MCLG	AL	Violation
Copper (ug/L)	2015	58	3	125	860	206	1300	1300	N
Health Effect:	relatively sho in excess of	essential nutrient ort amount of time the action level of personal doctor.	could experien	ce gastroir	ntestinal distress.	Some people	who drink	water contain	ing copper
Lead (ug/L)	2015	58	<1	3.8	19.0	9.7	0	15	N
Health Effect:	or mental de	hildren who drink velopment. Childr any years could o	en could show s	slight defic	its in attention sp	an and learnir			

Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation
							(MRDL for Chlorine)	
Total Organic Carbon (TOC) (mg/L)	2016	1	2.43	2.43	2.43	N/A	TT	N
Health Effect:	disinfection containing	n byproducts. T these byprodu	hese byproducts in	nclude trihalon e MCL may lea	nethanes (THMs) and to adverse heal	and haloace	es a medium for the formatio stic acids (HAAs). Drinking wa ver, or kidney problems, or n	ater
UV254 (abs/cm)	2016	10	0.025	0.031	0.035		NA	N
Health Effect:	There is no	health hazard	associated with U	V-254.	•			
Free Chlorine Residual (mg/L)	2016	2,178	0.72	0.88	1.76	4	4	N
Health Effect:							rience irritating effects to the uld experience stomach disco	
Bromodichloromethane (ug/L)	2016	1		2.6			NA	N
Bromoform (ug/L)	2016	1		ND			NA	N
Chloroform (ug/L)	2016	1		5.4			NA	N
Dibromochloromethane (ug/L)	2016	1		0.7			NA	N
Total Trihalomethanes (ug/L)	2016	1		9			80	N
Health Effect:	Increased	risk of cancer a	associated with lon	g-term exposu	re above the MCL			
Dibromoacetic Acid (ug/L)	2016	1		ND			NA	N
Dichloroacetic Acid (ug/L)	2016	1		3.4			NA	N
Monobromoacetic Acid (ug/L)	2016	1		ND			NA	N
Monochloroacetic Acid (ug/L)	2016	1		ND			NA	N
Trichloroacetic Acid (ug/L)	2016	1		2.3			NA	N
Themereacette Hera (ag/2)								

Contaminant (units)	Sample	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation	Maximum
	Year						(MRDL for Chlorine)		LRAA
UV254 Reservoirs (abs/cm)	2016	23	0.017	0.024	0.032		NA	N	
Health Effect:	There is no	health hazar	d associated	with UV-2	<u> </u>	<u> </u>			
Free Chlorine Residual (mg/L)	2016	3,129	0.10	0.77	2.20	4	4	N	
Health Effect:		Some people					IRDL could experience irritates of the MRDL could exp		
Bromodichloromethane (ug/L)	2016	32	6	9	14		NA	N	
Bromoform (ug/L)	2016	32	0	0	1		NA	N	
Chloroform (ug/L)	2016	32	9	29	67		NA	N	
Dibromochloromethane (ug/L)	2016	32	2	3	6		NA	N	
Total Trihalomethanes (ug/L)	2016	32	21	42	85		80	N	50
Health Effect:	Increased	risk of cancer	associated w	ith long-t	erm exposure	above the	MCL.	<u> </u>	
Dibromoacetic Acid (ug/L)	2016	32	0	0	0		NA	N	
Dichloroacetic Acid (ug/L)	2016	32	2	11	21		NA	N	
Monobromoacetic Acid (ug/L)	2016	32	0	0	0		NA	N	
Monochloroacetic Acid (ug/L)	2016	32	0	0	4		NA	N	
Trichloroacetic Acid (ug/L)	2016	32	2	13	18		NA	N	
Haloacetic Acids (5) (ug/L)	2016	32	4	24	40		60	N	34

Semi-Volatile Organic C	ontamina	nts (Entr	y Point)									
			Hemlock Wa	ter Filtration Pl	ant				Mon	roe County W	ater Aut	hority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
1,2-Dibromo-3-Chloropropane (DBCP) (ug/L)	2016	1		ND		0	0.2	N	1		ND	
1,2-Dibromoethane (EDB) (ug/L)	2016	1		ND		0	0.05	N	1		ND	
Aroclor 1016 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1221 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1232 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1242 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1248 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1254 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Aroclor 1260 (PCB's) (ug/L)	2016	1		ND			NA	N	0			
Total PCB's (ug/L)	2016		All Aroclor we	re ND		0	0.5	N	4		ND	
Chlordane (ug/L)	2016	1		ND		0	2	N	4		ND	
Toxaphene (ug/L)	2016	1		ND		0	3	N	4		ND	
2,4-D (ug/L)	2016	1		ND			50	N	1		ND	
Dalapon (ug/L)	2016	1		ND		200	200	N	4		ND	
Dacthal, mono & di acid, DCPA (ug/L)	2016	1		ND			50	N	4		ND	
Dicamba (ug/L)	2016	1		ND			50	N	1		ND	
Dinoseb (ug/L)	2016	1		ND		7	7	N	1		ND	
Pentachlorophenol (ug/L)	2016	1		ND		0	1	N	4		ND	

# **Semi-Volatile Organic Contaminants (Entry Point)**

			Hemlock Wa	ter Filtration Pla	ant				Mon	roe County W	Vater Aut	hority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
Picloram (ug/L)	2016	1		ND		500	500	N	1		ND	
2,4,5-TP (Silvex) (ug/L)	2016	1		ND		50	50	N	1		ND	
Alachlor (ug/L)	2016	1		ND		0	2	N	4		ND	
Aldrin (ug/L)	2016	1		ND			50	N	4		ND	
Atrazine (ug/L)	2016	1		ND		3	3	N	4		ND	
Benzo(a)pyrene (ug/L)	2016	1		ND		0	0.2	N	4		ND	
gama-BHC (Lindane) (ug/L)	2016	1		ND		0.2	0.2	N	4		ND	
Butachlor (ug/L)	2016	1		ND			50	N	4		ND	
Dieldrin (ug/L)	2016	1		ND			50	N	4		ND	
Di(2-ethylhexyl) adipate (ug/L)	2016	1		ND		400	400	N	4		ND	
Di(2-ethylhexyl) phthalate (ug/L)	2016	1		ND		0	6	N	4		ND	
Endrin (ug/L)	2016	1		ND		2	2	N	4		ND	
Heptachlor (ug/L)	2016	1		ND		0	0.4	N	4		ND	
Heptachlor epoxide (ug/L)	2016	1		ND		0	0.2	N	4		ND	
Hexachlorobenzene (ug/L)	2016	1		ND		0	1	N	4		ND	
Hexachlorocyclopentadiene (ug/L)	2016	1		ND		50	50	N	4		ND	
Methoxychlor (ug/L)	2016	1		ND		40	40	N	4		ND	

			Hemlock Wate	er Filtration Pl	ant				Mon	roe County W	ater Autl	hority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
Metolachlor (ug/L)	2016	1		ND			50	N	4		ND	
Metribuzin (ug/L)	2016	1		ND			50	N	4		ND	
Propachlor (ug/L)	2016	1		ND			50	N	4		ND	
Simazine (ug/L)	2016	1		ND		4	4	N	4		ND	
Aldicarb (ug/L)	2016	1		ND			50	N	1		ND	
Aldicarb sulfone (ug/L)	2016	1		ND			50	N	1		ND	
Aldicarb sulfoxide (ug/L)	2016	1		ND			50	N	1		ND	
Carbaryl (ug/L)	2016	1		ND			50	N	4		ND	
Carbofuran (ug/L)	2016	1		ND		40	40	N	4		ND	
3-Hydroxycarbofuran (ug/L)	2016	1		ND			50	N	1		ND	
Methomyl (ug/L)	2016	1		ND			50	N	1		ND	
1-Naphthol (ug/L)	2016	1		ND			50	N	4		ND	
Oxamyl (ug/L)	2016	1		ND		200	200	N	1		ND	
Glyphosate (ug/L)	2016	1		ND		700	700	N	1		ND	
Endothall (ug/L)	2016	1		ND		100	100	N	1		ND	
Diquat (ug/L)	2016	1		ND		20	20	N	1		ND	
2,3,7,8-TCDD (Dioxin) (pg/L)	2016	2		ND		0	30	N	1		ND	

	,	He	emlock Water	Filtration P	lant	·			Me	onroe County	Water Aut	hority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
Benzene (ug/L)	2016	1		ND		0	5	N	4		ND	
Bromobenzene (ug/L)	2016	1		ND			5	N	4		ND	
Bromochloromethane (ug/L)	2016	1		ND			5	N	4		ND	
Bromomethane (ug/L)	2016	1		ND			5	N	4		ND	
n-Butylbenzene (ug/L)	2016	1		ND			5	N	4		ND	
sec-Butylbenzene (ug/L)	2016	1		ND			5	N	4		ND	
tert-Butylbenzene (ug/L)	2016	1		ND			5	N	4		ND	
Carbon tetrachloride (ug/L)	2016	1		ND		0	5	N	4		ND	
Chlorobenzene (ug/L)	2016	1		ND			5	N	4		ND	
Chloroethane (ug/L)	2016	1		ND			5	N	4		ND	
Chloromethane (ug/L)	2016	1		ND			5	N	4		ND	
2-Chlorotoluene (ug/L)	2016	1		ND			5	N	4		ND	
4-Chlorotoluene (ug/L)	2016	1		ND			5	N	4		ND	
Dibromomethane (ug/L)	2016	1		ND			5	N	4		ND	
1,2-Dichlorobenzene (ug/L)	2016	1		ND			5	N	4		ND	
1,3-Dichlorobenzene (ug/L)	2016	1		ND			5	N	4		ND	
1,4-Dichlorobenzene (ug/L)	2016	1		ND			5	N	4		ND	
Dichlorodifluoromethane (ug/L)	2016	1		ND			5	N	4		ND	

		He	emlock Water	Filtration P	lant				Me	onroe County	/ Water Aut	hority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
1,1-Dichloroethane (ug/L)	2016	1		ND		0	5	N	4		ND	
1,2-Dichloroethane (ug/L)	2016	1		ND		0	5	N	4		ND	
1,1-Dichloroethylene (ug/L)	2016	1		ND		5	5	N	4		ND	
cis-1,2-Dichloroethylene (ug/L)	2016	1		ND		5	5	N	4		ND	
trans-1,2-Dichloroethylene (ug/L)	2016	1		ND		5	5	N	4		ND	
Dichloromethane (ug/L)	2016	1		ND		0	5	N	4		ND	
1,2-Dichloropropane (ug/L)	2016	1		ND		0	5	N	4		ND	
1,3-Dichloropropane (ug/L)	2016	1		ND			5	N	4		ND	
2,2-Dichloropropane (ug/L)	2016	1		ND			5	N	4		ND	
1,1-Dichloropropylene (ug/L)	2016	1		ND			5	N	4		ND	
cis-1,3-Dichloropropylene (ug/L)	2016	1		ND			5	N	4		ND	
trans-1,3-Dichloropropylene (ug/L)	2016	1		ND			5	N	4		ND	
1,3-Dichloropropylene, cis & trans (ug/L)	2016	1		ND			5	N	4		ND	
Ethyl benzene (ug/L)	2016	1		ND		5	5	N	4		ND	
Hexachlorobutadiene (ug/L)	2016	1		ND			5	N	4		ND	
Isopropylbenzene (ug/L)	2016	1		ND			5	N	4		ND	
4-Isopropyltoluene (ug/L)	2016	1		ND			5	N	4		ND	

		He	emlock Water	Filtration Pl	lant				M	onroe County	Water Aut	thority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
Methyl-t-butyl ether (MTBE) (ug/L)	2016	1		ND			10	N	4		ND	
Naphthalene (ug/L)	2016	1		ND			5	N	4		ND	
n-Propylbenzene (ug/L)	2016	1		ND			5	N	4		ND	
Styrene (ug/L)	2016	1		ND			5	N	4		ND	
1,1,1,2-Tetrachloroethane (ug/L)	2016	1		ND			5	N	4		ND	
1,1,2,2-Tetrachloroethane (ug/L)	2016	1		ND			5	N	4		ND	
Tetrachloroethylene (ug/L)	2016	1		ND		0	5	N	4		ND	
Toluene (ug/L)	2016	1		ND			5	N	4		ND	
1,2,3-Trichlorobenzene (ug/L)	2016	1		ND			5	N	4		ND	
1,2,4-Trichlorobenzene (ug/L)	2016	1		ND		5	5	N	4		ND	
1,1,1-Trichloroethane (ug/L)	2016	1		ND		5	5	N	4		ND	
1,1,2-Trichloroethane (ug/L)	2016	1		ND		3	3	N	4		ND	
Trichloroethylene (ug/L)	2016	1		ND		0	5	N	4		ND	
Trichlorofluoromethane (ug/L)	2016	1		ND			5	N	4		ND	
1,2,3-Trichloropropane (ug/L)	2016	1		ND			5	N	4		ND	
1,2,4-Trimethylbenzene (ug/L)	2016	1		ND			5	N	4		ND	

		H	emlock Water	r Filtration Pla	ant				Mo	onroe County	Water Aut	nority
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL***	Violation	No. Tests	Minimum	Avg	Maximum
1,3,5-Trimethylbenzene (ug/L)	2016	1		ND			5	N	4		ND	,
Vinyl chloride (ug/L)	2016	1		ND		0	2	N	4		ND	,
1,2-Xylene (ug/L)	2016	1		ND			5	N	0			
1,3 + 1,4-Xylene (ug/L)	2016	1		ND			5	N	0			
Xylenes, Total (ug/L)	2016	1		ND			15	N	4		ND	

Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation
Geosmin (ng/L)	2016	1		ND			NA	N
IBMP (ng/L)	2016	1		ND				N
IPMP (ng/L)	2016	1		ND				N
MIB (ng/L)	2016	1		ND			NA	N
2,4,6-Trichloroanisole (TCA) (ng/L)	2016	1		ND				N

Surfactants (Entry Point)								
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	MCLG	MCL	Violation
Foaming Agents (MBAS) (mg/L)	2016	1		ND				N

UCMR3 (Entry Point)									
			Hemlock Wat	er Filtratio	n Plant	Mo	onroe County Wat	er Authority (2	014)
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	No. Tests	Minimum	Avg	Maximum
1,1-dichloroethane (ug/L)	2015	4		ND		4		ND	
1,2,3-trichloropropane (ug/L)	2015	4		ND		4		ND	
1,3-butadiene (ug/L)	2015	4		ND		4		ND	
1,4-dioxane (ug/L)	2015	4		ND		4		ND	
bromochloromethane (Halon 1011) (ug/L)	2015	4		ND		4		ND	
bromomethane (ug/L)	2015	4		ND		4		ND	
chlorodifluoromethane (HCFC-22) (ug/L)	2015	4		ND		4		ND	
chloromethane (ug/L)	2015	4		ND		4		ND	
chlorate (ug/L)	2015	4	ND	28	43	4	ND		130
chromium, total (ug/L)	2015	4		ND		4	ND		0.23
chromium-6 (ug/L)	2015	4	ND	0.02	0.04	4	0.07		0.09
cobalt (ug/L)	2015	4		ND		4		ND	
molybdenum (ug/L)	2015	4		ND		4	1.2		1.3
strontium (ug/L)	2015	4	50	53	57	4	160		190
vanadium (ug/L)	2015	4		ND		4	ND		0.2
perfluorobutanesulfonic acid (PFBS) (ug/L)	2015	4		ND		4		ND	
perfluoroheptanoic acid (PFHpA) (ug/L)	2015	4		ND		4		ND	
perfluorohexanesulfonic acid (PFHxS) (ug/L)	2015	4		ND		4		ND	
perfluorononanoic acid (PFNA) (ug/L)	2015	4		ND		4		ND	
perfluorooctanesulfonic acid (PFOS) (ug/L)	2015	4		ND		4		ND	
perfluorooctanoic acid (PFOA) (ug/L)	2015	4		ND		4		ND	
ethynylestradiol (ug/L)	2015	4		ND		4		ND	
estradiol (ug/L)	2015	4		ND		4		ND	
4-androstene-3,17-dione (ug/L)	2015	4		ND		4		ND	
equilin (ug/L)	2015	4		ND		4		ND	
estriol (ug/L)	2015	4		ND		4		ND	

UCMR3 (Entry Point)									
		Hemlock Water Filtration Plant			Monroe County Water Authority (2014)				
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum	No. Tests	Minimum	Avg	Maximum
estrone (ug/L)	2015	4		ND		4		ND	
testosterone (ug/L)	2015	4		ND		4		ND	

UCMR3 (Distribution System)							
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum		
chlorate (ug/L)	2015	4	21	61	120		
chromium, total (ug/L)	2015	4		ND			
chromium-6 (ug/L)	2015	4	ND	0.05	0.10		
cobalt (ug/L)	2015	4		ND			
molybdenum (ug/L)	2015	4		ND			
strontium (ug/L)	2015	4	56	78	140		
vanadium (ug/L)	2015	4		ND			

Emerging Contaminants (Entry Point)- Not currently regulated							
Contaminant (units)	Sample Year	No. Tests	Minimum	Avg	Maximum		
Chromium, Hexavalent (ug/L)	2016	1	ND	ND			
Perfluorooctane sulfonate (PFOS) (ug/L)	2016	1	ND	ND			
Perfluorooctanoic acid (PFOA) (ug/L)	2016	1	ND	ND			

### Footnotes:

\*\*\* In Part 5, Subpart 5-1 of the New York State Sanitary Code general organic chemicals are categorized as Principle Organic Contaminants (POCs) or Unspecified Organic Contaminants (UOCs). A POC is defined as any organic compound belonging to the following classes, except for chloroform, dibromochloromethane, bromoform and any other chemical contaminant with a specific MCL listed in Subpart 5-1.52:

- (1) Halogenated Alkane.
- (2) Halogenated Ether.
- (3) Halobenzenes and Substituted Halobenzenes.
- (4) Benzene and Alkyl- or Nitrogen-Substituted Benzenes.
- (5) Substituted, Unsaturated Hydrocarbons.
- (6) Halogenated Nonaromatic Cyclic Hydrocarbons.

A UOC is defined as any organic compound not otherwise specified in this Subpart.

Per Table 3 of Subpart 5-1.52 a POC is assigned an MCL of 0.005 mg/L (5 ug/L) and a UOC has an MCL of 0.05 mg/L (50 ug/L). The Total POCs+UOCs MCL is 0.1 mg/L (100 ug/L).