GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING

LIESL EICHLER CLARK
DIRECTOR

January 22, 2020

VIA E-MAIL

KINROSS TOWNSHIP
4884 WEST CURTIS STREET
KINCHELOE, MICHIGAN 49788

WSSN: 03630

Dear Water Supply Owner/Operator:

SUBJECT: KINROSS TOWNSHIP 2019 Quarterly
Per- and Polyfluoroalkyl Substances (PFAS) Results

KINROSS TOWNSHIP was included in a state-funded quarterly sampling effort because PFAS results in 2018 were greater than or equal to 10 parts per trillion (ppt) total PFAS or between 10 ppt and 70 ppt perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). The results of 2019 PFAS samples collected from KINROSS TOWNSHIP, WSSN # 03630 (water supply) on the date(s) indicated are below. A copy of the laboratory report is enclosed for your review.

Date Collected	Sampling Location	PFOS + PFOA (ppt)	LHA (ppt) PFOS + PFOA	Total Tested PFAS (ppt)
12/10/2019	WL002	ND	70	5

ND – The parameter was not detected based on the laboratory's analytical report.
See Official lab results for test method used.

Currently, there is no regulatory drinking water standard for any of the PFAS chemicals. However, in May 2016, the United States Environmental Protection Agency (USEPA) established a non-regulatory Lifetime Health Advisory (LHA) for two of these chemicals, PFOS and PFOA. The LHA for PFOS and PFOA is 70 ppt combined, or individually if only one of them is present.

Your water supply may have returned results greater than non-detect (ND) for the total amount of PFAS analytes tested. Neither the Michigan Department of Environment, Great Lakes, and Energy (EGLE) (formerly the Michigan Department of Environmental Quality) nor the USEPA currently have any guidance values for these other analytes. If additional guidance and/or comparison values are developed for PFOS, PFOA, or other PFAS chemicals in the future, we may reevaluate the recommendations below.

The concentrations of PFOS and PFOA in these samples are below the USEPA LHA of 70 ppt. We provide the following recommendations:

1. Inform the public as soon as possible of these sample results through posting on your Web site or other means. EGLE, in collaboration with the Michigan Department of Health and Human Services (MDHHS), has developed a toolkit containing communication templates to help notify the consumers of your water supply on the presence of PFAS in the drinking water and the response measures that are being initiated. This is a resource available to you if you choose and can be modified to fit your needs. The toolkit is available at www.Michigan.gov/PFASResponse; click on "news and education."

2. Investigate potential sources of PFAS in your watershed and initiate steps to remove any identified source, if possible. EGLE's Remediation and Redevelopment Division District Supervisor is copied herein and is available to assist you with this effort.

3. Evaluate options to modify operations to reduce PFAS in the water supply should levels approach the existing LHA. For example, this could be accomplished by minimizing use of wells with elevated PFAS levels or through the installation of treatment technology capable of reducing PFAS prior to distribution.

4. Please continue with your regularly scheduled monitoring.

The results of the 2019 sampling will be posted online on the Michigan PFAS Action Response Team (MPART) Web site within 48 hours of this notification. The results will be found online by going to the MPART Web site address listed below; click on "Testing and Treatment," scroll down to "Drinking Water," and select "Statewide Testing Initiative."

For information on PFOS, PFOA, and other PFAS, including possible health outcomes, you may visit these Web sites:

- **State of Michigan MPART** Web site serving as the main resource for public information on PFAS contamination in Michigan: www.Michigan.gov/PFASResponse
- **USEPA** Web site including basic information, USEPA actions, and links to informational resources: http://www.epa.gov/pfas
- **ATSDR** Web site including health information, exposure, and links to additional resources: www.atsdr.cdc.gov/pfas

To speak to a MDHHS toxicologist, call toll-free at 1-800-648-6942.

Thank you for your continued collaboration with this investigation. The ongoing partnership between EGLE and Michigan's public water supplies plays an integral role in the state's continued efforts to ascertain and address the incidence of PFAS in drinking water for Michiganders.

If you have any questions concerning this sampling, please contact me at the telephone number below; by email at EGLE-PFAS-DrinkingWater@Michigan.gov; or by mail at EGLE-Drinking Water and Environmental Health Division, P.O. Box 30817, Lansing, Michigan 48909-8311.

Sincerely,

Lois Elliott Graham

Lois Elliott Graham, R.S., M.S.A.
Drinking Water and Environmental Health Division
810-730-8674

Enclosure

cc: Ms. Suzanne Lieurance, Chippewa County Health Department
Mr. Steven Crider, Supervisor, Drinking Water Unit, MDHHS
Mr. Clifford Clark, EGLE
Mr. Tom Flaminio, EGLE

Vista Analytical Laboratory

Sample ID: GWNT1912100800GGA

EPA Method 537 Rev 1.1

Client Data

Name: Merit Laboratories, Inc.
Project: MDEQ State Municipal Sampling
Location: KINROSSTWP03630WL002
Matrix: Drinking Water
Date Collected: 10-Dec-19 08:00

Laboratory Data

Lab Sample: 1904308-01
Date Received: 13-Dec-19 09:30
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS	375-73-5	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFHxA	307-24-4	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFHpA	375-85-9	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFHxS	355-46-4	5	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFOA	335-67-1	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFNA	375-95-1	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFOS	1763-23-1	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFDA	335-76-2	ND	2		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
MeFOSAA	2355-31-9	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
EtFOSAA	2991-50-6	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFUnA	2058-94-8	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFDoA	307-55-1	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFTrDA	72629-94-8	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
PFTeDA	376-06-7	ND	4		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-PFHxA	SURR	109	70 - 130		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
13C2-PFDA	SURR	100	70 - 130		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1
d5-EtFOSAA	SURR	104	70 - 130		B9L0169	17-Dec-19	0.23 L	19-Dec-19 15:53	1

RL - Reporting limit

Results reported to RL.
Reporting convention specified by MI DEQ..

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.