

## NORTHWEST OTTAWA WATER FILTRATION PLANT

Independent Sampling and Analysis by the City of Grand Haven, Water Filtration Plant

Laboratory: Eurofins Eaton Analytical

Testing Method: 537 Rev. 1.1

Date of Sampling: 08/08/2018

### PLANT TAP WATER – DRINKING WATER LEAVING THE PLANT

Analyte	MRL	Result	Units	Analyzed Date
N-ethyl Perfluorooctanesulfonamidoacetic acid	2.0	<2.0	ppt	08/15/18
N-methyl Perfluorooctanesulfonamidoacetic acid	2.0	<2.0	ppt	08/15/18
Perfluorobutanesulfonic acid (PFBS)	2.0	<2.0	ppt	08/15/18
Perfluorodecanoic acid (PFDA)	2.0	<2.0	ppt	08/15/18
Perfluoroheptanoic acid (PFHpA)	2.0	5.5	ppt	08/15/18
Perfluorohexanesulfonic acid (PFHxS)	2.0	<2.0	ppt	08/15/18
Perfluorohexanoic acid (PFHxA)	2.0	6.8	ppt	08/15/18
Perfluorododecanoic acid (PFDoA)	2.0	<2.0	ppt	08/15/18
Perfluorotetradecanoic acid (PFTeDA)	2.0	<2.0	ppt	08/15/18
Perfluorononanoic acid (PFNA)	2.0	<2.0	ppt	08/15/18
Perfluorooctanesulfonic acid (PFOS)	2.0	4.0	ppt	08/15/18
Perfluorooctanoic acid (PFOA)	2.0	4.0	ppt	08/15/18
Perfluorotridecanoic acid (PFTrDA)	2.0	<2.0	ppt	08/15/18
Perfluoroundecanoic acid (PFUnA)	2.0	<2.0	ppt	08/15/18

MRL = Minimum Reporting Limit

ppt = parts per trillion or ng/l

Summary: Currently, there is no regulatory drinking water standard for any of the PFAS chemicals. However, in May 2016 the 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. The total from above is 8.0 ppt. This is just over 10% of the LHA. The other PFAS do not have any advisory levels at this time.

If you have questions about water quality or about PFAS, please contact Eric Law, Water Plant Supervisor or Joe VanderStel, Water Facilities Manager at 616-847-3487

## NORTHWEST OTTAWA WATER FILTRATION PLANT

The Michigan Department of Environmental Quality (MDEQ) Sampling and Analysis Program

Laboratory: Vista Analytical Laboratory

Testing Methods: 537 Rev. 1.1 and Isotope Dilution

Date of Sampling: 09/18/2018

### PLANT TAP WATER – DRINKING WATER LEAVING THE PLANT and RAW WATER or SOURCE WATER – WATER NOT TREATED – Two sources being represented and tested below

Analyte	MRL	Result	Units	Analyzed Date
N-ethyl Perfluorooctanesulfonamidoacetic acid	4.0	ND	ppt	10/08/18
N-methyl Perfluorooctanesulfonamidoacetic acid	4.0	ND	ppt	10/08/18
Perfluorobutanesulfonic acid (PFBS)	2.0	ND	ppt	10/08/18
Perfluorodecanoic acid (PFDA)	2.0	ND	ppt	10/08/18
Perfluoroheptanoic acid (PFHpA)	2.0	ND	ppt	10/08/18
Perfluorohexanesulfonic acid (PFHxS)	2.0	ND	ppt	10/08/18
Perfluorohexanoic acid (PFHxA)	2.0	ND	ppt	10/08/18
Perfluorododecanoic acid (PFDoA)	4.0	ND	ppt	10/08/18
Perfluorotetradecanoic acid (PFTeDA)	4.0	ND	ppt	10/08/18
Perfluorononanoic acid (PFNA)	2.0	ND	ppt	10/08/18
Perfluorooctanesulfonic acid (PFOS)	2.0	ND	ppt	10/08/18
Perfluorooctanoic acid (PFOA)	2.0	ND	ppt	10/08/18
Perfluorotridecanoic acid (PFTrDA)	4.0	ND	ppt	10/08/18
Perfluoroundecanoic acid (PFUnA)	4.0	ND	ppt	10/08/18
PFBA	2.0	ND	ppt	10/08/18
PFPeA	2.0	ND	ppt	10/08/18
4:2 FTS	2.0	ND	ppt	10/08/18
PFPeS	2.0	ND	ppt	10/08/18
6:2 FTS	2.0	ND	ppt	10/08/18
PFHpS	2.0	ND	ppt	10/08/18
PFOSA	2.0	ND	ppt	10/08/18
8:2 FTS	2.0	ND	ppt	10/08/18
PFNS	2.0	ND	ppt	10/08/18
PFDS	4.0	ND	ppt	10/08/18

MRL = Minimum Reporting Limit

ppt = parts per trillion or ng/l

ND = Not Detected

Summary: Currently, there is no regulatory drinking water standard for any of the PFAS chemicals. However, in May 2016 the 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. All results were reported as “not-detected”.

If you have questions about water quality or about PFAS, please contact Eric Law, Water Plant Supervisor or Joe VanderStel, Water Facilities Manager at 616-847-3487