Results of OWASA's monitoring as part of the Unregulated Contaminant Monitoring Rule (UCMR)

UCMR 1 (2001 – 2005)

	Feb 2001	Apr 2001	May 2001	Jul 2001	Aug 2001	Nov 2001	Dec 2001	Feb 2002	May 2002	Aug 2002	Nov 2002	Average	Range
Production of Isocyanate and Explosives													
2,4-dinitrotoluene (µg/L)	< 2.0	-	-	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	No range
2,6-dinitrotoluene (µg/L)	< 2.0	-	-	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	No range
Herbicide													
Acetochlor (µg/L)	< 2.0	-	-	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	No range
EPTC (µg/L)	< 1.0	-	-	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	No range
Molinate (µg/L)	< 0.9	-	-	< 0.9	< 0.9	-	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	No range
Terbacil (µg/L)	< 2.0	-	-	< 2.0	< 2.0	-	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	No range
Herbicide Degradate													
DCPA degradates (mono- & di-acid) (µg/L)	< 1.0	-	< 1.0	-	< 1.0	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	No range
Insecticide Degradate													
4,4'-DDE (µg/L)	< 0.8	-	-	< 0.8	< 0.8	-	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	No range
Gasoline Additive													
MTBE (µg/L)	< 5.0	-	< 5.0	-	< 5.0	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	No range
Production of Aniline													
Nitrobenzene (µg/L)	< 10	-	< 10	-	< 10	< 10	-	< 10	< 10	< 10	< 10	< 10	No range
Solid Fuel Additive													
Perchlorate (µg/L)	< 4.0	-	< 4.0	-	< 4.0	< 4.0	-	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	No range
Microbe													
Aeromonas (cfu/100 mL)	-	< 0.2	-	< 0.2	-	-	-	-	-	-	-	< 0.2	No range

Results of OWASA's monitoring as part of the Unregulated Contaminant Monitoring Rule (UCMR)

UCMR 2 (2007 – 2011)

	Dec 2008		Mar 2009	May 2009		Jun 2009		Sep 2009		Average	Range
Insecticides											
Dimethoate (µg/L)	< 0.7	-	< 0.7	-	-	< 0.7	-	< 0.7	-	< 0.7	No range
Terbufos sulfone (µg/L)	< 0.4	-	< 0.4	-	-	< 0.4	-	< 0.4	-	< 0.4	No range
Flame Retardants											
2,2',4,4'-tetrabromodiphenyl ether (BDE-47) (µg/L)	< 0.3	-	< 0.3	-	-	< 0.3	-	< 0.3	-	< 0.3	No range
2,2',4,4',5-pentabromodiphenyl ether (BDE-99) (µg/L)	< 0.9	-	< 0.9	-	-	< 0.9	-	< 0.9	-	< 0.9	No range
2,2',4,4',5,5'-hexabromobiphenyl (HBB) (µg/L)	< 0.7	-	< 0.7	-	-	< 0.7	-	< 0.7	-	< 0.7	No range
2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153) (µg/L)	< 0.8	-	< 0.8	-	-	< 0.8	-	< 0.8	-	< 0.8	No range
2,2',4,4',6-pentabromodiphenyl ether (BDE-100) (µg/L)	< 0.5	-	< 0.5	-	-	< 0.5	-	< 0.5	-	< 0.5	No range
Explosives											
1,3-dinitrobenzene (µg/L)	< 0.8	-	< 0.8	-	-	< 0.8	-	< 0.8	-	< 0.8	No range
2,4,6-trinitrotoluene (TNT) (µg/L)	< 0.8	-	< 0.8	-	-	< 0.8	-	< 0.8	-	< 0.8	No range
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) (µg/L)	< 1.0	-	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	No range
Parent Acetanilides											
Acetochlor (µg/L)	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	-	< 2.0	No range
Alachlor (µg/L)	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	-	< 2.0	No range
Metolachlor (µg/L)	< 1.0	-	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	No range
Acetanilide Degradates											
Acetochlor ethane sulfonic acid (ESA) (µg/L)	< 1.0	-	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	No range
Acetochlor oxanilic acid (OA) (µg/L)	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	-	< 2.0	No range
Alachlor ethane sulfonic acid (ESA) (µg/L)	< 1.0	-	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	No range
Alachlor oxanilic acid (OA) (µg/L)	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	-	< 2.0	No range
Metolachlor ethane sulfonic acid (ESA) (µg/L)	< 1.0	-	< 1.0	-	-	< 1.0	-	< 1.0	-	< 1.0	No range
Metolachlor oxanilic acid (OA) (µg/L)	< 2.0	-	< 2.0	-	-	< 2.0	-	< 2.0	-	< 2.0	No range
Nitrosamines											
N-nitroso-diethylamine (NDEA) (µg/L)	< 0.0050	< 0.0050	-	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	No range
N-nitroso-dimethylamine (NDMA) (µg/L)	< 0.0020	< 0.0020	-	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	**0.0025**	**0.0003**	**< 0.0020 - 0.0025**
N-nitroso-di-n-butylamine (NDBA) (µg/L)	< 0.0040	< 0.0040	-	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	< 0.0040	No range
N-nitroso-di-n-propylamine (NDPA) (µg/L)	< 0.0070	< 0.0070	-	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	No range
N-nitroso-methylethylamine (NMEA) (µg/L)	< 0.0030	< 0.0030	-	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	No range
N-nitroso-pyrrolidine (NPYR) (µg/L)	< 0.0020	< 0.0020	-	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	< 0.0020	No range

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Results of OWASA's monitoring as part of the Unregulated Contaminant Monitoring Rule (UCMR)

UCMR 3 (2012 – 2016)

	Nov 2013		Feb 2014		May 2014		Aug 2014		Average	Range
Volatile Organic Compounds										
Bromochloromethane (halon 1011) (µg/L)	< 0.06	-	< 0.06	-	< 0.06	-	< 0.06	-	< 0.06	No range
Bromomethane (methyl bromide) (µg/L)	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	No range
1,3-butadiene (µg/L)	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	-	< 0.1	No range
Chlorodifluoromethane (HCFC-22) (µg/L)	< 0.08	-	< 0.08	-	< 0.08	-	< 0.08	-	< 0.08	No range
Chloromethane (methyl chloride) (µg/L)	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2	No range
1,1-dichloroethane (µg/L)	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	No range
1,2,3-trichloropropane (µg/L)	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	No range
Synthetic Organic Compound										
1,4-dioxane (µg/L)	< 0.07	-	< 0.07	-	< 0.07	-	< 0.07	-	< 0.07	No range
Metals										
Chromium-6 (µg/L)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	No range
Cobalt (µg/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	No range
Molybdenum (µg/L)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	No range
Strontium (µg/L)	**72**	**75**	**53**	**57**	**54**	**55**	**66**	**66**	**62**	**53 - 75**
Vanadium (µg/L)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	No range
Chromium, hexavalent (µg/L)	**0.05**	**0.06**	<0.03	**0.03**	**0.04**	**0.05**	**0.04**	**0.05**	**0.04**	**< 0.03 - 0.06**
Oxyhalide Anion										
Chlorate (µg/L)	**650**	**620**	**160**	**180**	**330**	**330**	**630**	**620**	**440**	**160 - 650**
Perfluorinated Compounds										
Perfluorobutanesulfonic acid (PFBS) (µg/L)	< 0.09	-	< 0.09	-	< 0.09	-	< 0.09	-	< 0.09	No range
Perfluoroheptanoic acid (PFHpA) (µg/L)	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	No range
Perfluorohexanesulfonic acid (PFHxS) (µg/L)	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	-	< 0.03	No range
Perfluorononanoic acid (PFNA) (µg/L)	< 0.02	-	< 0.02	-	< 0.02	-	< 0.02	-	< 0.02	No range
Perfluorooctanesulfonic acid (PFOS) (µg/L)	< 0.04	-	< 0.04	-	< 0.04	-	< 0.04	-	< 0.04	No range
Perfluorooctanoic acid (PFOA) (µg/L)	< 0.02	-	**0.03**	-	< 0.02	-	< 0.02	-	**0.01**	**< 0.02 - 0.03**

Results of OWASA's monitoring as part of the Unregulated Contaminant Monitoring Rule (UCMR)

UCMR 4 (2017 – 2021)

	Aug 2019	Nov 2019	Feb 2020	Apr 2020		May 2020		Jun 2020		Jul 2020		Average	Range
Metals													
germanium (µg/L)	< 0.300	< 0.300	< 0.300	-	-	< 0.300	-	-	-	-	-	< 0.300	No range
manganese (µg/L)	< 0.400	**0.998**	**0.701**	**-**	**-**	< 0.400	-	-	-	-	-	**0.425**	<0.400 - 0.998
Pesticides & Pesticide Manufacturing Byproduct													
alpha-hexachlorocyclohexane (µg/L)	< 0.0100	< 0.0100	< 0.0100	-	-	< 0.0100	-	-	-	-	-	< 0.0100	No range
chlorpyrifos (µg/L)	< 0.0300	< 0.0300	< 0.0300	-	-	< 0.0300	-	-	-	-	-	< 0.0300	No range
dimethipin (µg/L)	< 0.200	< 0.200	< 0.200	-	-	< 0.200	-	-	-	-	-	< 0.200	No range
ethoprop (µg/L)	< 0.0300	< 0.0300	< 0.0300	-	-	< 0.0300	-	-	-	-	-	< 0.0300	No range
oxyfluorfen (µg/L)	< 0.0500	< 0.0500	< 0.0500	-	-	< 0.0500	-	-	-	-	-	< 0.0500	No range
profenofos (µg/L)	< 0.300	< 0.300	< 0.300	-	-	< 0.300	-	-	-	-	-	< 0.300	No range
tebuconazole (µg/L)	< 0.200	< 0.200	< 0.200	-	-	< 0.200	-	-	-	-	-	< 0.200	No range
permethrin, cis- & trans- (µg/L)	< 0.0400	< 0.0400	< 0.0400	-	-	< 0.0400	-	-	-	-	-	< 0.0400	No range
tribufos (µg/L)	< 0.0700	< 0.0700	< 0.0700	-	-	< 0.0700	-	-	-	-	-	< 0.0700	No range
Alcohols													
1-butanol (µg/L)	< 2.00	< 2.00	< 2.00	-	-	< 2.00	-	-	-	-	-	< 2.00	No range
2-methoxyethanol (µg/L)	< 0.400	< 0.400	< 0.400	-	-	< 0.400	-	-	-	-	-	< 0.400	No range
2-propen-1-ol (µg/L)	< 0.500	< 0.500	< 0.500	-	-	< 0.500	-	-	-	-	-	< 0.500	No range
Semivolatile Chemicals													
butylated hydroxyanisole (µg/L)	< 0.0300	< 0.0300	< 0.0300	-	-	< 0.0300	-	-	-	-	-	< 0.0300	No range
o-toluidine (µg/L)	< 0.00700	< 0.00700	< 0.00700	-	-	< 0.00700	-	-	-	-	-	< 0.00700	No range
quinoline (µg/L)	< 0.0200	< 0.0200	< 0.0200	-	-	< 0.0200	-	-	-	-	-	< 0.0200	No range
Brominated Haloacetic Acid (HAA) Groups													
HAA5 (µg/L)	**11.69**	**7.43**	**9.65**	**-**	**-**	**12.70**	**-**	**-**	**-**	**-**	**-**	**10.36**	5.66 - 14.00
HAA6Br (µg/L)	**4.21**	**2.68**	**3.41**	**-**	**-**	**4.13**	**-**	**-**	**-**	**-**	**-**	**3.61**	1.78 - 4.45
HAA9 (µg/L)	**15.36**	**10.03**	**12.84**	**-**	**-**	**16.83**	**-**	**-**	**-**	**-**	**-**	**13.76**	8.52 - 18.28
Cyanotoxins													
anatoxin-a (µg/L)	-	-	-	< 0.0300	< 0.0300	< 0.0300	< 0.0300	< 0.0300	< 0.0300	< 0.0300	< 0.0300	< 0.0300	No range
cylindrospermopsin (µg/L)	-	-	-	< 0.0900	< 0.0900	< 0.0900	< 0.0900	< 0.0900	< 0.0900	< 0.0900	< 0.0900	< 0.0900	No range
total microcystins & nodularins (µg/L)	-	-	-	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	< 0.300	No range
microcystin-LA * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-
microcystin-LF * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-
microcystin-LR * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-
microcystin-LY * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-
microcystin-RR * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-
microcystin-YR * (µg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-

* only analyzed if total microcystins & nodularins results > 0.3 µg/L

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Results of OWASA's monitoring as part of the Unregulated Contaminant Monitoring Rule (UCMR)

UCMR 5 (2023 – 2025)

	Mar 2025	Jun 2025	Sep 2025	Dec 2025	Average	Range
PFAS Compounds						
4:02 Fluorotelomer sulfonic acid (4:2 FTS) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
6:02 Fluorotelomer sulfonic acid (6:2 FTS) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
8:02 Fluorotelomer sulfonic acid (8:2 FTS) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
4,8-Dioxa-3H-perfluorononanoic acid (ADONA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
F-53B Major/9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS) (ppb)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	no range
F-53B Minor/11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
GenX/Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
Perfluorobutanesulfonic acid (PFBS) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluorobutanoic acid (PFBA) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
Perfluorodecanoic acid (PFDA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluoroheptanoic acid (PFHpA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluorohexanesulfonic acid (PFHxS) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluorohexanoic acid (PFHxA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluorododecanoic acid (PFDoA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluorononanoic acid (PFNA) (ppt)	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	no range
Perfluorooctanesulfonic acid (PFOS) (ppb)	**0.0048**	<0.0040	<0.0040	<0.0040	**0.0012**	**<0.0040 - 0.0048**
N-ethyl Perfluorooctanesulfonamidoacetic acid (NEtFOSAA) (ppb)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	no range
N-methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA) (ppb)	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	no range
Perfluorooctanoic acid (PFOA) (ppb)	**0.0046**	<0.0040	<0.0040	<0.0040	**0.0012**	**<0.0040 - 0.0046**
Perfluorotridecanoic acid (PFTrDA) (ppb)	<0.0070	<0.0070	<0.0070	<0.0070	<0.0070	no range
Perfluoroundecanoic acid (PFUnA) (ppb)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	no range
Perfluoroheptanesulfonic acid (PFHpS) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) (ppb)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	no range
Perfluoro-4-methoxybutanoic acid (PFMBA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluoro-3-methoxypropanoic acid (PFMPA) (ppb)	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	no range
Perfluoropentanoic acid (PFPeA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Perfluoropentanesulfonic acid (PFPeS) (ppb)	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	no range
Perfluorotetradecanoic acid (PFTA) (ppb)	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	no range
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA) (ppb)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	no range
Metals						
Lithium (ppb)	<9.00	<9.00	<9.00	<9.00	<9.00	no range

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