MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY ENVIRONMENTAL LABORATORY

Report Date: 2/5/2025 13:39
Client: City of Cadillac-Utilities Department
Attention: Jeff Dietlin
Project Name: LDFA Special Investigation

Sample Number			Michigan Safe Drinking Water Act MCL[1] and Groundwater Cleanup Std	National Primary Drinking Water Regulation MCL[2]	Michigan Rule 57 Surface Water Quality Values[3]	2501113-01	2501113-02	2501113-03	2501113-04	503850140001	2411198-03	2501113-05	2501113-06	2501113-07	2501113-08	2501113-09
Sample ID						I-1	I-2	I-3	I-4	I-5 Influent	I-6	I-7	I-8	I-9	I-10	I-11
Test Method						8327	8327	8327	8327	537.1(M)	8327	8327	8327	8327	8327	8327
Date Collected						1/27/2025	1/27/2025	1/27/2025	1/27/2025	10/14/2024	11/18/2024	1/27/2025	1/27/2025	1/27/2025	1/27/2025	1/27/2025
Date Analyzed						1/31/2025	1/31/2025	1/31/2025	2/1/2025	10/24/2024	11/27/2024	2/1/2025	2/1/2025	2/1/2025	2/1/2025	2/1/2025
CAS#	Analyte	Units														
763051-92-9	11Cl-PF3OUdS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
356-02-5	3:3FTCA	ppt	NA	NA	NA	<4.0	<4.0	<4.0	<4.0	NA	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
757124-72-4	4:2FTS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
914637-49-3	5:3FTCA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
27619-97-2	6:2FTS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
812-70-4	7:3FTCA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
39108-34-4	8:2FTS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
756426-58-1	9Cl-PF3ONS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
919005-14-4	ADONA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
13252-13-6	HFPO-DA	ppt	370	10	NA	<4.0	<4.0	<4.0	<4.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2991-50-6	NEtFOSAA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2355-31-9	NMeFOSAA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
375-22-4	PFBA	ppt	NA	NA	NA	<4.0	**4.3**	<4.0	<4.0	**4.5**	**4.1**	<4.0	<4.0	<4.0	<4.0	**5.2**
375-73-5	PFBS	ppt	420	NA	670,000	**5.2**	**20**	<2.0	**5.7**	**15.2**	**8.4**	**3.6**	**5.1**	**8.4**	**2.8**	**28**
30334-69-1	PFBSA	ppt	NA	NA	NA	**9.1**	**15**	<2.0	**2.4**	NA	<2.0	<2.0	<2.0	**2.7**	**2.8**	**17**
335-76-2	PFDA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
307-55-1	PFDoDA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
335-77-3	PFDS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
646-83-3	PFECHS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
375-85-9	PFHpA	ppt	NA	NA	NA	<2.0	**2.8**	<2.0	<2.0	**2.4**	<2.0	<2.0	<2.0	<2.0	<2.0	**4.2**
375-92-8	PFHpS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
307-24-4	PFHxA	ppt	400,000	NA	NA	**2.3**	**5.7**	<2.0	<2.0	**4.6**	**2.7**	**2.3**	**2.3**	**2.3**	**2.0**	**6.4**
355-46-4	PFHxS	ppt	51	10	210	**4.3**	**2.8**	<2.0	**5.1**	**6.0**	**5.9**	**3.4**	**2.9**	**7.7**	**16**	**5.3**
41997-13-1	PFHxSA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
375-95-1	PFNA	ppt	6	10	30	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
68259-12-1	PFNS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
335-67-1	PFOA	ppt	8	4.0	170	**4.3**	**6.1**	<2.0	**2.5**	**5.9**	**3.5**	**3.5**	**2.6**	**2.8**	**4.5**	**12**
1763-23-1	PFOS	ppt	16	4.0	12	**2.2**	**4.2**	<2.0	<2.0	**2.4**	<2.0	<2.0	<2.0	**2.3**	<2.0	**6.7**
754-91-6	PFOSA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2706-90-3	PFPeA	ppt	NA	NA	NA	**2.6**	**6.3**	<2.0	<2.0	**4.4**	**2.7**	**2.1**	<2.0	**3.2**	<2.0	**7.0**
2706-91-4	PFPeS	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
376-06-7	PFTeDA	ppt	NA	NA	NA	<4.0	<4.0	<4.0	<4.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
72629-94-8	PFTrDA	ppt	NA	NA	NA	<4.0	<4.0	<4.0	<4.0	<2.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
2058-94-8	PFUnDA	ppt	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Exceeds Nat'l Primary Drinking Water MCL

Exceeds Nat'l Primary Drinking Water MCL and/or MI SDWA MCL

"NA" means a criterion or value is not available

[1] Maximum Contaminant Level (MCL) is the maximum amount of a contaminant allowed in drinking water. Applies only to public drinking water supplies covered under the Michigan Safe Drinking Water Act. Private residential wells are not regulated under the Michigan Safe Drinking Water Act, but Michigan uses the MCLs along with other factors when evaluating private residential well results.

[2] Compliance with MCLs is determined by running annual averages at the sampling point.

[3] Michigan's Rule 57 Water Quality Values apply to NPDES discharges. If a waterbody is also used as a source for drinking water, water quality values are lower than those shown.

(w/ conditional formatting)