

Drinking Water Testing Program

City of Flint Community Data

Multiple labs were used for this drinking water project with some samples going to more than one lab. Initial and flushed water samples from sampling events 6 and 7 were sent to Paragon Lab. Some of the flushed water samples from these sampling events were also sent to Trace Analytical Laboratories, Inc. (Trace Lab) and the Michigan Department of Energy and Great Lakes Environmental Laboratory (EGLE Lab). This was done to make sure that the results were accurate. Homes that had water testing during these sampling events received results in the mail from each lab that tested their water. Below are the results from EGLE Lab.

MDHHS Sampling Event 7 EGLE Lab (11/16/2021-11/18/2021)

Section 1: Metals									
Parameter	Number of locations sampled (number of initial samples/number of flushed samples)	Range in initial samples (mg/L)			Range in flushed samples (mg/L)			US Environmental Protection Agency (US EPA) drinking water value (mg/L)	Health-based level (mg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
Aluminum	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.125	.0051	1	0.05-0.20 (J)	0.3 (D)
Antimony	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.01(F)	0 (G)
Barium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	0.013	ND	0.021	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.004 (F)	0.004 (G)

Boron	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	1.4 (C: chronic for children)
Cadmium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.005 (F)	0.0007 (C: chronic for children)
Chromium, total	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.1 (F)	0.0063 (C: chronic for children, Cr (VI)) ¹
Copper	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	.00315	ND	.022	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G) ²
Iron	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	.13	0.30 (J)	2 (D)
Lead	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.015 (A)	0 (G)
Manganese	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	.041	0.05 (J)	0.3 (E: lifetime)
Molybdenum	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	0.035 (B: chronic for children)
Nickel	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	0.1 (E: lifetime)
Selenium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.05 (F)	0.035 (B, C: chronic for children)
Silver	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.1 (J)	0.035 (C: children – chronic for children)

Thallium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Value not established	2.1 (C: intermediate children)
Vanadium	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	ND	Value not established	0.0045 (D)
Zinc	12 (0/12)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	ND	ND	0.015	5 (J)	2 (E: lifetime)

Section 2: Disinfectants, Disinfection Byproducts and Bacteria									
Parameter	Number of locations sampled (number of initial samples/number of flushed samples)	Range in initial samples			Range in flushed samples			US Environmental Protection Agency (US EPA) drinking water value	Health-based level (µg/L)
		Median	Lowest	Highest	Median	Lowest	Highest		
Haloacetic Acids (HAA5, µg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here
Total Trihalomethanes (TTHMs, µg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here

Section 3: General Chemistry

Parameter	Number of locations sampled (number of initial samples/number of flushed samples)	Range in initial samples			Range in flushed samples			US Environmental Protection Agency (US EPA) drinking water value	Health-based level
		Median	Lowest	Highest	Median	Lowest	Highest		
Calcium (mg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here
Chloride (mg/L)	12/12	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	11	11	12	250 (F)	Learn more here
Specific Conductance (µmhos/cm)	12/12	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	234	231	239	Learn more here	Learn more here
Hardness (as mg/L of CaCO ₃)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here
Magnesium (mg/L)	12/12	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	6.95	ND	7.4	Learn more here	400 (D)
Orthophosphate (mg/L)	12/12	1.1	0.98	1.3	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here
pH (SU)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	6.5 – 8.5 (F)	Learn more here
Sodium (mg/L)	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here
Sulfate (mg/L)	12/12	25	24	26	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	250 (F)	500 (E)

Total Alkalinity (mg/L)	12/12	84.5	81	86	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here
Turbidity (NTU)	12/12	ND	ND	1.4	NA / Not analyzed by lab	NA / Not analyzed by lab	NA / Not analyzed by lab	Learn more here	Learn more here