

Drinking Water Testing Program

City of Flint Community Data

MDHHS Sampling Event 9 (01/11/2022-01/13/2022)

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	53 (53 / 53)	0.068	ND	1.3	0.088	ND	4.4	0.05-0.20 (J)	0.3 (D)
Antimony	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.01(F)	0 (G)
Barium	53 (53 / 53)	0.012	ND	0.024	0.012	ND	0.058	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.004 (F)	0.004 (G)
Boron	53 (53 / 53)	ND	ND	ND	ND	ND	ND	Value not established	1.4 (C: chronic for children)
Cadmium	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.005 (F)	0.0007 (C: chronic for children)
Chromium, total	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.1 (F)	0.0063 (C: chronic for children, Cr (VI)) ¹
Copper	53 (53 / 53)	ND	ND	0.24	ND	ND	ND	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G) ²

Iron	53 (53 / 53)	ND	ND	ND	ND	ND	0.37	0.30 (J)	2 (D)
Lead	53 (53 / 53)	ND	ND	0.058	ND	ND	ND	0.015 (A)	0 (G)
Manganese	53 (53 / 53)	ND	ND	0.04	ND	ND	0.16	0.05 (J)	0.3 (E: lifetime)
Molybdenum	53 (53 / 53)	ND	ND	ND	ND	ND	ND	Value not established	0.035 (B: chronic for children)
Nickel	53 (53 / 53)	ND	ND	0.026	ND	ND	ND	Value not established	0.1 (E: lifetime)
Selenium	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.05 (F)	0.035 (B, C: chronic for children)
Silver	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.1 (J)	0.035 (C: children – chronic for children)
Thallium	53 (53 / 53)	ND	ND	ND	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	53 (53 / 53)	ND	ND	ND	ND	ND	ND	Value not established	2.1 (C: intermediate children)
Vanadium	53 (53 / 53)	ND	ND	ND	ND	ND	ND	Value not established	0.0045 (D)
Zinc	53 (53 / 53)	ND	ND	0.41	ND	ND	0.051	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		
Chlorine (as Cl ₂ , mg/L)	52 (52 / 52)	1.14	0.01	1.94	1.445	ND	1.89	4 (H)	Learn more here
Haloacetic Acids (HAA5, µg/L)	53 (54 / 53)	15.7	ND	31.1	14.5	7.28	32	60 (F)	Learn more here
Total Trihalomethanes (TTHMs, µg/L)	53 (54 / 53)	18.5	15	110	18	15	35	80 (F)	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)	53 (53 / 53)	26	ND	27	26	ND	27	Learn more here	Learn more here
Chloride (mg/L)	53 (53 / 53)	10	9.3	11	10	8.5	11	250 (F)	Learn more here
Specific Conductance (µmhos/cm)	53 (53 / 53)	250	240	260	250	240	260	Learn more here	Learn more here
Hardness (as mg/L of CaCO ₃)	53 (53 / 53)	97	ND	100	97	ND	100	Learn more here	Learn more here
Magnesium (mg/L)	53 (53 / 53)	7.7	ND	13	7.7	ND	8.2	Learn more here	400 (D)

Orthophosphate (mg/L)	53 (53 / 53)	0.93	0.6	1.2	0.94	0.88	3.3	Learn more here	Learn more here
pH (SU)	52 (52 / 52)	8.01	7.43	9.18	7.97	7.68	8.97	6.5 – 8.5 (F)	Learn more here
Sodium (mg/L)	53 (53 / 53)	9.1	8.8	51	9.1	8.3	51	Learn more here	Learn more here
Sulfate (mg/L)	53 (53 / 53)	23	21	29	23	20	25	250 (F)	500 (E)
Total Alkalinity (mg/L)	53 (53 / 53)	80	60	90	80	72	90	Learn more here	Learn more here
Turbidity (NTU)	53 (53 / 53)	ND	ND	ND	ND	ND	5.2	Learn more here	Learn more here