Drinking Water Testing Program
City of Flint Community Data

MDHHS Sampling Event 1 (8/26/2021 – 8/30/2021)

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	61 (49 / 57)	0.05	ND	0.16	0.053	ND	0.17	0.05-0.20 (J)	0.3 (D)
Antimony	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.006 (F)	0.0028 (B: chronic for children)
Arsenic	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.01(F)	0 (G)
Barium	61 (49 / 57)	0.014	ND	0.015	0.014	ND	0.015	2 (F)	0.7 (E: 1/10- day for children)
Beryllium	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.004 (F)	0.004 (G)
Boron	61 (49 / 57)	0.015	0.014	0.023	0.015	0.014	0.026	Value not established	1.4 (C: chronic for children)
Cadmium	61 (49 / 57)	ND	ND	0.0018	ND	ND	0.00036	0.005 (F)	0.0007 (C: chronic for children)
Chromium, total	61 (49 / 57)	0.0013	ND	0.0016	0.0013	ND	0.0016	0.1 (F)	0.0063 (C: chronic for children, Cr (VI))[1]
Copper	61 (49 / 57)	0.0091	0.0013	0.58	0.0046	ND	0.07	1.3 (A) 1.0 (J)	0.07 (C: acute/ intermediate for children) 1.3 (G)[2]

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		Median	**Lowest**	**Highest**	**Median**	**Lowest**	**Highest**		
Iron	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.30 (J)	2 (D)
Lead	61 (49 / 57)	ND	ND	0.0095	ND	ND	0.003	0.015 (A)	0 (G)
Manganese	61 (49 / 57)	ND	ND	0.0063	ND	ND	0.0028	0.05 (J)	0.3 (E: lifetime)
Molybdenum	61 (49 / 57)	ND	ND	ND	ND	ND	ND	Value not established	0.035 (B: chronic for children)
Nickel	61 (49 / 57)	0.0018	ND	0.014	0.0018	ND	0.0029	Value not established	0.1 (E: lifetime)
Selenium	61 (49 / 57)	ND	ND	0.0012	ND	ND	0.0013	0.05 (F)	0.035 (B, C: chronic for children)
Silver	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.1 (J)	0.035 (C: children – chronic for children)
Thallium	61 (49 / 57)	ND	ND	ND	ND	ND	ND	0.002 (F)	0.0002 (I)
Tin	61 (49 / 57)	ND	ND	ND	ND	ND	ND	Value not established	2.1 (C: intermediate children)
Vanadium	61 (49 / 57)	ND	ND	ND	ND	ND	ND	Value not established	0.0045 (D)
Zinc	61 (49 / 57)	ND	ND	0.27	ND	ND	0.073	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)	61 (52 / 53)	1.035	0.03	1.81	1.25	0.06	1.91	4 mg/L (H)	Learn more here
Haloacetic Acids (HAA5, µg/L)	61 (49 / 57)	26	ND	41	25	3.4	36	60 µg/L (F)	Learn more here
Total Trihalomethanes (TTHMs, µg/L)	61 (49 / 57)	36	27	100	34	28	49	80 µg/L (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)	61 (49 / 57)	26	ND	26	26	ND	26	Learn more here	Learn more here
Chloride (mg/L)	61 (49 / 56)	11	10	14	11	11	12	250 (F)	Learn more here
Specific Conductance (µmhos/cm)	61 (49 / 56)	120	110	210	120	110	160	Learn more here	Learn more here
Hardness (as mg/L of $CaCO_3$)	61 (49 / 57)	95	ND	97	95	ND	97	Learn more here	Learn more here
Magnesium (mg/L)	61 (49 / 57)	7.5	ND	9.1	7.5	ND	9.2	Learn more here	Learn more here

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		Median	**Lowest**	**Highest**	**Median**	**Lowest**	**Highest**		
Orthophosphate (mg/L)	61 (49 / 56)	0.99	0.74	1.1	0.995	0.92	1.1	Learn more here	Learn more here
pH (SU)	61 (49 / 56)	7.7	7.4	7.9	7.7	7.4	7.9	6.5 – 8.5 (F)	Learn more here
Sodium (mg/L)	61 (49 / 57)	7.1	6.7	51	7.2	6.8	50	Learn more here	Learn more here
Sulfate (mg/L)	61 (49 / 56)	19	18	20	19	18	20	250 (F)	Learn more here
Total Alkalinity (mg/L)	61 (49 / 56)	80	70	90	80	70	90	Learn more here	Learn more here
Turbidity (NTU)	61 (49 / 56)	0.09	ND	0.69	0.085	ND	0.43	Learn more here	Learn more here