

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on April 9, 2002

	Raw	Tap	MCL/[SMCL] ⁽¹⁾	MDL ⁽²⁾
Turbidity ⁽³⁾	11.0	0.157	0.3/95%	
Total Solids	222	150	[500]	10
Total Dissolved Solids	143	144	[500]	10
Aluminum (Al)	1.102	0.058	[0.05-0.2]	0.005
Iron (Fe)	1.039	0.016	[0.3]	0.002
Copper (Cu)	0.038	0.008	1.3	0.001
Magnesium (Mg)	8.47	7.33		0.2
Calcium (Ca)	32.2	31.1		0.06
Sodium (Na)	4.68	4.89	20 ⁽⁴⁾	0.01
Potassium (K)	1.50	1.00		0.01
Manganese (Mn)	0.032	0.001	[0.05]	0.001
Zinc (Zn)	0.01	<0.01	[5.0]	0.01
Silica (SiO ₂)	6.53	8.44		0.4
Sulfate (SO ₄)	17.4	31.2		
Chloride (Cl ⁻)	7.7	8.5	[250]	1.0
Phosphorus (P)	0.03	0.27		0.01
Free Carbon Dioxide	2.0	7.0		
Total Hardness ⁽⁵⁾ ⁽⁶⁾	107	109		
Total Alkalinity ⁽⁵⁾	85	68		
Carbonate Alkalinity ⁽⁵⁾	0	0		
Bi-Carbonate Alkalinity ⁽⁵⁾	85	68		
Non-Carbonate Hardness ⁽⁵⁾	22	41		
Chemical Oxygen Demand	5.3	<2.0		2.0
Dissolved Oxygen	10.9	12.0		
Ammonia Nitrogen	<0.1	<0.1		0.1
Organic Nitrogen	0.2	<0.1		0.1
Nitrite Nitrogen	<0.01	<0.01	1.0	0.01
Nitrate Nitrogen	0.52	0.54	10.0	0.01
Fluoride	0.2	1.1	4.0	0.1
pH in pH units	7.93	7.29	6.5-8.5	
Specific Conductance in micromhos at 25° C.	223	235		
Temperature in ° C.	8.6	11.1		

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Notes: All units are mg/L unless otherwise noted. (1) MCL/[SMCL] = Maximum Contaminant Level/Secondary Maximum Contaminant Level. (2) MDL = Method Detection Limit. (3) NTU = Nephelometric Turbidity Units. Reported results are from a Grab sample. EPA requirements are for 95% of monthly readings to be <0.3 NTU. (4) EPA Guidance level. (5) = As Calcium Carbonate. (6) by EDTA titration. (7) Metals Results temporarily unavailable. "<" = Less than. EF = Equipment Failure.

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