

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on June 12, 2001

	Raw	Tap	MCL/[SMCL] ⁽¹⁾	MDL ⁽²⁾
Turbidity ⁽³⁾	7.39	0.151	0.3/95%	
Total Solids	147	180	[500]	10
Total Dissolved Solids	143	151	[500]	10
Aluminum (Al)	0.050	0.050	[0.05-0.2]	0.005
Iron (Fe)	0.142	<0.005	[0.3]	0.002
Copper (Cu)	0.014	0.007	1.3	0.001
Magnesium (Mg)	6.07	7.18		0.2
Calcium (Ca)	24.8	27.0		0.06
Sodium (Na)	5.96	5.36	20 ⁽⁴⁾	0.01
Potassium (K)	0.98	0.98		0.01
Manganese (Mn)	0.008	<0.001	[0.05]	0.001
Zinc (Zn)	0.02	0.02	[5.0]	0.01
Silica (SiO ₂)	2.91	4.86		0.4
Sulfate (SO ₄)	18.4	24.4		
Chloride (Cl ⁻)	7.5	8.5	[250]	1.0
Phosphorus (P)	<0.01	0.29		0.01
Free Carbon Dioxide	1.1	5.6		
Total Hardness ⁽⁵⁾ ⁽⁶⁾	107	111		
Total Alkalinity ⁽⁵⁾	78	69		
Carbonate Alkalinity ⁽⁵⁾	0	0		
Bi-Carbonate Alkalinity ⁽⁵⁾	78	69		
Non-Carbonate Hardness ⁽⁵⁾	29	42		
Chemical Oxygen Demand	10.9	4.5		2.0
Dissolved Oxygen	10.0	11.5		
Ammonia Nitrogen	0.7	<0.1		0.1
Organic Nitrogen	0.2	0.1		0.1
Nitrite Nitrogen	<0.01	<0.01	1.0	0.01
Nitrate Nitrogen	0.44	0.44	10.0	0.01
Fluoride	0.1	1.2	4.0	0.1
pH in pH units	8.13	7.39	6.5-8.5	
Specific Conductance in micromhos at 25° C.	222	230		
Temperature in ° C.	18.9	11.7		

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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. "<" = Less than. EF = Equipment Failure.

Analyst: Brian Brown, Sr. Anal. Chemist

By: 

Pamela Turner

Manager, Water Quality Division

Kathleen Leavey

Interim Director, Water & Sewerage Department