

City of Detroit
Water and Sewerage Department
 Laboratory analysis of Water Samples collected at
Southwest Plant
 on May 14, 2003

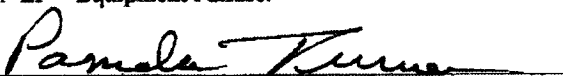
	Raw	Tap	MCL/[SMCL] ⁽¹⁾	MDL ⁽²⁾
Turbidity ⁽³⁾	4.00	0.08	0.3/95%	
Total Solids	170	160	{500}	10
Total Dissolved Solids	156	149	{500}	10
Aluminum (Al)	0.456	0.120	{0.05-0.2}	0.005
Iron (Fe)	0.622	0.093	{0.3}	0.002
Copper (Cu)	0.019	0.010	1.3	0.001
Magnesium (Mg)	7.86	7.60		0.2
Calcium (Ca)	21.0	25.5		0.06
Sodium (Na)	4.19	5.88	20 ⁽⁴⁾	0.01
Potassium (K)	0.99	1.02		0.01
Manganese (Mn)	0.011	0.001	{0.05}	0.001
Zinc (Zn)	<0.01	<0.01	{5.0}	0.01
Silica (SiO ₂)	12.22	18.05		0.4
Sulfate (SO ₄)	18.1	33.1		
Chloride (Cl ⁻)	8.0	11.5	{250}	1.0
Phosphorus (P)	<0.01	0.38		0.01
Free Carbon Dioxide	2.1	8.2		
Total Hardness ^{(5) (6)}	106	113		
Total Alkalinity ⁽⁵⁾	90	82		
Carbonate Alkalinity ⁽⁵⁾	0	0		
Bi-Carbonate Alkalinity ⁽⁵⁾	90	82		
Non-Carbonate Hardness ⁽⁵⁾	16	31		
Chemical Oxygen Demand	4.4	<2.0		2.0
Dissolved Oxygen	10.6	10.8		
Ammonia Nitrogen	<0.1	<0.1		0.1
Organic Nitrogen	0.1	<0.1		0.1
Nitrite Nitrogen	<0.01	<0.01	1.0	0.01
Nitrate Nitrogen	0.49	0.76	10.0	0.01
Fluoride	0.1	1.1	4.0	0.1
pH in pH units	7.98	7.30	6.5-8.5	
Specific Conductance in micromhos at 25° C.	223	245		
Temperature in ° C.	11.5	12		

FOR INFORMATIONAL PURPOSES ONLY

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

Victor M. Mercado

Director, Water & Sewerage Department