

**City of Detroit Water and Sewerage Department
Laboratory Analysis of Water Samples Collected at
Southwest Plant November 17, 2009**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.St d	MDL
Turbidity		NTU	9.48	0.04	0.3/95% (1)		
Total Solids		mg/L	155	157		500	10
Total Dissolved Solids		mg/L	125	123		500	10
Aluminum	Al	mg/L	0.466	0.098		0.05-0.2	0.005
Iron	Fe	mg/L	0.350	<0.050		0.3	0.005
Copper	Cu	mg/L	0.012	0.008	1.3		0.002
Magnesium	Mg	mg/L	7.97	7.77			0.5
Calcium	Ca	mg/L	26.0	26.2			0.1
Sodium	Na	mg/L	5.82	5.84		20 (2)	0.1
Potassium	K	mg/L	0.90	0.84			0.1
Manganese	Mn	mg/L	0.011	<0.002		0.05	0.002
Zinc	Zn	mg/L	<0.1	<0.1		5	0.1
Silica	SiO ₂	mg/L	0.96	0.98			0.4
Sulfate	SO ₄	mg/L	21.2	32.1			
Chloride	Cl	mg/L	7.00	8.50		250	5
Phosphorus	P	mg/L	<0.05	0.32			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.92	4.82			
Total Hardness (3), (4), (5)		mg/L	105	103			
Total Alkalinity (3)		mg/L	90	80			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	90	80			
Non-Carbonate Hardness (3)		mg/L	15	23			
Chemical Oxygen Demand		mg/L	5.6	11.2			2
Dissolved Oxygen		mg/L	11	10.9			
Ammonia Nitrogen	NH ₃ -N	mg/L	<0.1	<0.1			0.1
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Oxygen Nitrogen	mg/L	mg/L	<0.1	<0.1	1	0.1	0.1
Nitrite Nitrogen	NO₂-N	mg/L	<0.1	<0.1	1	0.1	0.1
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