

**Water Works Park Water Treatment Plant – 2015 Regulated Detected Contaminants Tables**

Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest Level Detected	Range of Detection	Violation yes/no	Major Sources in Drinking Water
<b>Inorganic Chemicals – Monitoring at Plant Finished Water Tap</b>								
Fluoride	05/11/2015	ppm	4	4	0.48	n/a	no	Erosion of natural deposits; Water additive, which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate	05/11/2015	ppm	10	10	0.27	n/a	no	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
<b>Disinfection By-Products – Monitoring in Distribution System Stage 2 Disinfection By-Products</b>								
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest LRAA	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)	2015	ppb	n/a	80	20	2-32	no	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	2015	ppb	n/a	60	9	0-10	no	By-product of drinking water disinfection
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Allowed Level MCL	Highest RAA	Range of Detection	Violation yes/no	Major Sources in Drinking Water
Bromate	2015	ppb	0	10	0.8	ND-1.4	no	By-product of drinking water ozone disinfection
<b>Disinfectant Residuals - Monitoring in Distribution System</b>								
Regulated Contaminant	Test Date	Unit	Health Goal MRDLG	Allowed Level MRDL	Highest RAA	Quarterly Range of Detection	Violation yes/no	Major Sources in Drinking Water
Total Chlorine Residual	2015	ppm	4	4	0.92	0.76-0.97	no	Water additive used to control microbes
<b>2015 Turbidity – Monitored every 4 hours at Plant Finished Water Tap</b>								
Highest Single Measurement Cannot exceed 1 NTU		Lowest Monthly % of Samples Meeting Turbidity Limit of 0.3 NTU (minimum 95%)				Violation yes/no	Major Sources in Drinking Water	
0.17 NTU		100%				no	Soil Runoff	
Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system.								
<b>2015 Microbiological Contaminants – Monthly Monitoring in Distribution System</b>								
Regulated Contaminant	MCLG	MCL			Highest Number Detected	Violation yes/no	Major Sources in Drinking Water	
Total Coliform Bacteria	0	Presence of Coliform bacteria > 5% of monthly samples			1	no	Naturally present in the environment.	
<i>E. coli</i> Bacteria	0	A routine sample and a repeat sample are total coliform positive, and one is also fecal or <i>E. coli</i> positive.			0	no	Human waste and animal fecal waste.	
<b>2015 Lead and Copper Monitoring at Customers' Tap</b>								
Regulated Contaminant	Test Date	Unit	Health Goal MCLG	Action Level AL	90 <sup>th</sup> Percentile Value*	Number of Samples Over AL	Violation yes/no	Major Sources in Drinking Water
Lead	2013	ppb	0	15	4	0	no	Corrosion of household plumbing system; Erosion of natural deposits.
Copper	2013	ppm	1.3	1.3	0	0	no	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives.
*The 90th percentile value means 90 percent of the homes tested have lead and copper levels below the given 90th percentile value. If the 90th percentile value is above the AL additional requirements must be met.								
Regulated Contaminant	Treatment Technique							Typical Source of Contaminant
Total Organic Carbon (ppm)	The Total Organic Carbon (TOC) removal ratio is calculated as the ratio between the actual TOC removal and the TOC removal requirements. The TOC was measured each quarter and because the level was low, there is no requirement for TOC removal.							Erosion of natural deposits

**2015 Special Monitoring**

Contaminant	MCLG	MCL	Level Detected	Source of Contamination
Sodium (ppm)	n/a	n/a	4.50	Erosion of natural deposits

Collection and sampling result information in this table was provided by Detroit Water and Sewerage Department (DWSD) Water Quality Division, ML Semegen.