



GLWA Water Treatment Plants - Mineral Reports

Sample Dates: 01/10/2017 01/10/2017 01/10/2017 01/10/2017 01/10/2017 01/10/2017 01/10/2017 01/10/2017

Parameter	Formula	Units	Lake Huron		Southwest		Belle Isle	Water Works Park	Northeast	Springwells	MCL	Sec.Std	MDL
			Raw	Tap	Raw	Tap	Raw	Tap	Tap	Tap			
Turbidity		NTU	0.45	0.05	18.00	0.07	4.80	0.06	0.07	0.13	0.3/95% (1)		
Total Solids		mg/L	131	117	198	172	141	140	141	138		500	10
Total Dissolved Solids		mg/L	93	97	169	158	107	118	122	108		500	10
Aluminum	Al	mg/L	0.058	0.091	0.240	0.093	0.097	0.069	0.074	0.068		0.05-0.2	0.005
Iron	Fe	mg/L	0.134	0.051	0.260	0.222	0.239	0.202	0.025	0.121		0.3	0.005
Copper	Cu	mg/L	0.008	< 0.005	0.005	< 0.005	0.005	< 0.005	< 0.005	0.007	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	9.26	8.55	12.53	9.30	8.48	10.47	11.67	8.72			0.5
Calcium	Ca	mg/L	31.5	29.0	42.6	37.8	38.6	33.6	30.7	29.6			0.1
Sodium	Na	mg/L	5.75	4.76	9.90	9.05	7.73	6.29	5.85	5.23		20 (2)	0.1
Potassium	K	mg/L	1.00	0.96	1.55	1.44	1.06	1.06	1.04	1.00			0.1
Manganese	Mn	mg/L	0.002	< 0.002	0.010	0.011	0.004	0.004	0.002	0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.03		5	0.1
Silica	SiO ₂	mg/L	1.0	1.2	1.2	1.1	1.0	1.2	1.2	1.2			0.4
Sulfate	SO ₄ ²⁻	mg/L	17.7	22.8	23.9	33.1	18.6	22.5	27.1	28.7		250	
Chloride	Cl ⁻	mg/L	7.5	7.5	7.0	10.0	7.5	10.0	10.0	10.5		250	5
Phosphorus	P	mg/L	< 0.05	0.33	< 0.05	0.39	< 0.05	0.31	0.37	1.09			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.4	4.3	2.1	6.8	1.0	1.5	5.1	6.5			
Total Hardness (3), (4), (5)		mg/L	100	110	120	128	104	100	100	104			
Total Alkalinity (3)		mg/L	80	70	100	80	80	70	70	70			
Carbonate Alkalinity (3)		mg/L	0	0	0	0	0	0	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	80	70	100	80	80	70	70	70			
Non-Carbonate Hardness (3)		mg/L	20	40	20	48	24	30	30	34			
Chemical Oxygen Demand		mg/L	3.6	5.6	4.8	6.4	5.2	4.8	6.0	7.2			2
Dissolved Oxygen		mg/L	14.2	14.0	13.8	13.7	15.5	16.0	14.6	15.2			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.25	0.22	1.42	1.13	0.33	0.29	0.36	0.24	10		0.1
Fluoride	F ⁻	mg/L	0.07	0.48	0.09	0.38	0.07	0.47	0.38	0.32	4.0	2.0	0.5
pH			8.06	7.51	7.98	7.37	8.20	7.97	7.44	7.33	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	207	220	294	303	226	235	225	221			
Temperature		°C	8.3	8.3	1.0	1.0	8.0	7.0	3.0	2.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L)
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
 Reviewed By: Patrick Williford Chemist-II Initial **P. W.** Date: 05/04/2017

Great Lakes Water Authority



WATER OPERATING SERVICES
 WATER QUALITY
 10100 EAST JEFFERSON AVENUE
 DETROIT, MICHIGAN 48214
 PHONE: 313-926-8102 / 313-926-8127

Water Works Park Water Treatment Plant Mineral Report

Sample Date: 01/10/2017

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.80	0.06	0.3/95% (1)		
Total Solids		mg/L	141	140		500	10
Total Dissolved Solids		mg/L	107	118		500	10
Aluminum	Al	mg/L	0.097	0.069		0.05-0.2	0.005
Iron	Fe	mg/L	0.239	0.202		0.3	0.005
Copper	Cu	mg/L	0.005	< 0.005	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	8.48	10.47			0.5
Calcium	Ca	mg/L	38.6	33.6			0.1
Sodium	Na	mg/L	7.73	6.29		20 (2)	0.1
Potassium	K	mg/L	1.06	1.06			0.1
Manganese	Mn	mg/L	0.004	0.004		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO ₂	mg/L	1.0	1.2			0.4
Sulfate	SO ₄ ²⁻	mg/L	18.6	22.5		250	
Chloride	Cl ⁻	mg/L	7.5	10.0		250	5
Phosphorus	P	mg/L	< 0.05	0.31			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.0	1.5			
Total Hardness (3), (4), (5)		mg/L	104	100			
Total Alkalinity (3)		mg/L	80	70			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	80	70			
Non-Carbonate Hardness (3)		mg/L	24	30			
Chemical Oxygen Demand		mg/L	5.2	4.8			2
Dissolved Oxygen		mg/L	15.5	16.0			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.33	0.29	10		0.1
Fluoride	F ⁻	mg/L	0.07	0.47	4.0	2.0	0.5
pH			8.20	7.97	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	235			
Temperature		°C	8.0	7.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 5.80 GPG
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
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Lake Huron Water Treatment Plant Mineral Report

Sample Date: 01/10/2017

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	0.45	0.05	0.3/95% (1)		
Total Solids		mg/L	131	117		500	10
Total Dissolved Solids		mg/L	93	97		500	10
Aluminum	Al	mg/L	0.058	0.091		0.05-0.2	0.005
Iron	Fe	mg/L	0.134	0.051		0.3	0.005
Copper	Cu	mg/L	0.008	< 0.005	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	9.26	8.55			0.5
Calcium	Ca	mg/L	31.5	29.0			0.1
Sodium	Na	mg/L	5.75	4.76		20 (2)	0.1
Potassium	K	mg/L	1.00	0.96			0.1
Manganese	Mn	mg/L	0.002	< 0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO ₂	mg/L	1.0	1.2			0.4
Sulfate	SO ₄ ²⁻	mg/L	17.7	22.8		250	
Chloride	Cl ⁻	mg/L	7.5	7.5		250	5
Phosphorus	P	mg/L	< 0.05	0.33			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.4	4.3			
Total Hardness (3), (4), (5)		mg/L	100	110			
Total Alkalinity (3)		mg/L	80	70			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	80	70			
Non-Carbonate Hardness (3)		mg/L	20	40			
Chemical Oxygen Demand		mg/L	3.6	5.6			2
Dissolved Oxygen		mg/L	14.2	14.0			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.25	0.22	10		0.1
Fluoride	F ⁻	mg/L	0.07	0.48	4.0	2.0	0.5
pH			8.06	7.51	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	207	220			
Temperature		°C	8.3	8.3			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 6.38 GPG
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument detection limit.
IV: Invalid Sample	

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
 Reviewed By: Patrick Williford Chemist-II Initial **P. W.** Date: 05/04/2017

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Southwest Water Treatment Plant Mineral Report

Sample Date: 01/10/2017

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	18.00	0.07	0.3/95% (1)		
Total Solids		mg/L	198	172		500	10
Total Dissolved Solids		mg/L	169	158		500	10
Aluminum	Al	mg/L	0.240	0.093		0.05-0.2	0.005
Iron	Fe	mg/L	0.260	0.222		0.3	0.005
Copper	Cu	mg/L	0.005	< 0.005	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	12.53	9.30			0.5
Calcium	Ca	mg/L	42.6	37.8			0.1
Sodium	Na	mg/L	9.90	9.05		20 (2)	0.1
Potassium	K	mg/L	1.55	1.44			0.1
Manganese	Mn	mg/L	0.010	0.011		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO ₂	mg/L	1.2	1.1			0.4
Sulfate	SO ₄ ²⁻	mg/L	23.9	33.1		250	
Chloride	Cl ⁻	mg/L	7.0	10.0		250	5
Phosphorus	P	mg/L	< 0.05	0.39			0.05
Free Carbon Dioxide	CO ₂	mg/L	2.1	6.8			
Total Hardness (3), (4), (5)		mg/L	120	128			
Total Alkalinity (3)		mg/L	100	80			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	100	80			
Non-Carbonate Hardness (3)		mg/L	20	48			
Chemical Oxygen Demand		mg/L	4.8	6.4			2
Dissolved Oxygen		mg/L	13.8	13.7			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	1.42	1.13	10		0.1
Fluoride	F ⁻	mg/L	0.09	0.38	4.0	2.0	0.5
pH			7.98	7.37	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	294	303			
Temperature		°C	1.0	1.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 7.42 GPG
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
 Reviewed By: Patrick Williford Chemist-II Initial **P. W.** Date: 05/04/2017

Great Lakes Water Authority



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Northeast Water Treatment Plant Mineral Report

Sample Date: 01/10/2017

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.80	0.07	0.3/95% (1)		
Total Solids		mg/L	141	141		500	10
Total Dissolved Solids		mg/L	107	122		500	10
Aluminum	Al	mg/L	0.097	0.074		0.05-0.2	0.005
Iron	Fe	mg/L	0.239	0.025		0.3	0.005
Copper	Cu	mg/L	0.005	< 0.005	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	8.48	11.67			0.5
Calcium	Ca	mg/L	38.6	30.7			0.1
Sodium	Na	mg/L	7.73	5.85		20 (2)	0.1
Potassium	K	mg/L	1.06	1.04			0.1
Manganese	Mn	mg/L	0.004	0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO ₂	mg/L	1.0	1.2			0.4
Sulfate	SO ₄ ²⁻	mg/L	18.6	27.1		250	
Chloride	Cl ⁻	mg/L	7.5	10.0		250	5
Phosphorus	P	mg/L	< 0.05	0.37			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.0	5.1			
Total Hardness (3), (4), (5)		mg/L	104	100			
Total Alkalinity (3)		mg/L	80	70			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	80	70			
Non-Carbonate Hardness (3)		mg/L	24	30			
Chemical Oxygen Demand		mg/L	5.2	6.0			2
Dissolved Oxygen		mg/L	15.5	14.6			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.33	0.36	10		0.1
Fluoride	F ⁻	mg/L	0.07	0.38	4.0	2.0	0.5
pH			8.20	7.44	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	225			
Temperature		°C	8.0	3.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 5.80 GPG
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
 Reviewed By: Patrick Williford Chemist-II Initial **P. W.** Date: 05/04/2017

Great Lakes Water Authority



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Springwells Water Treatment Plant Mineral Report

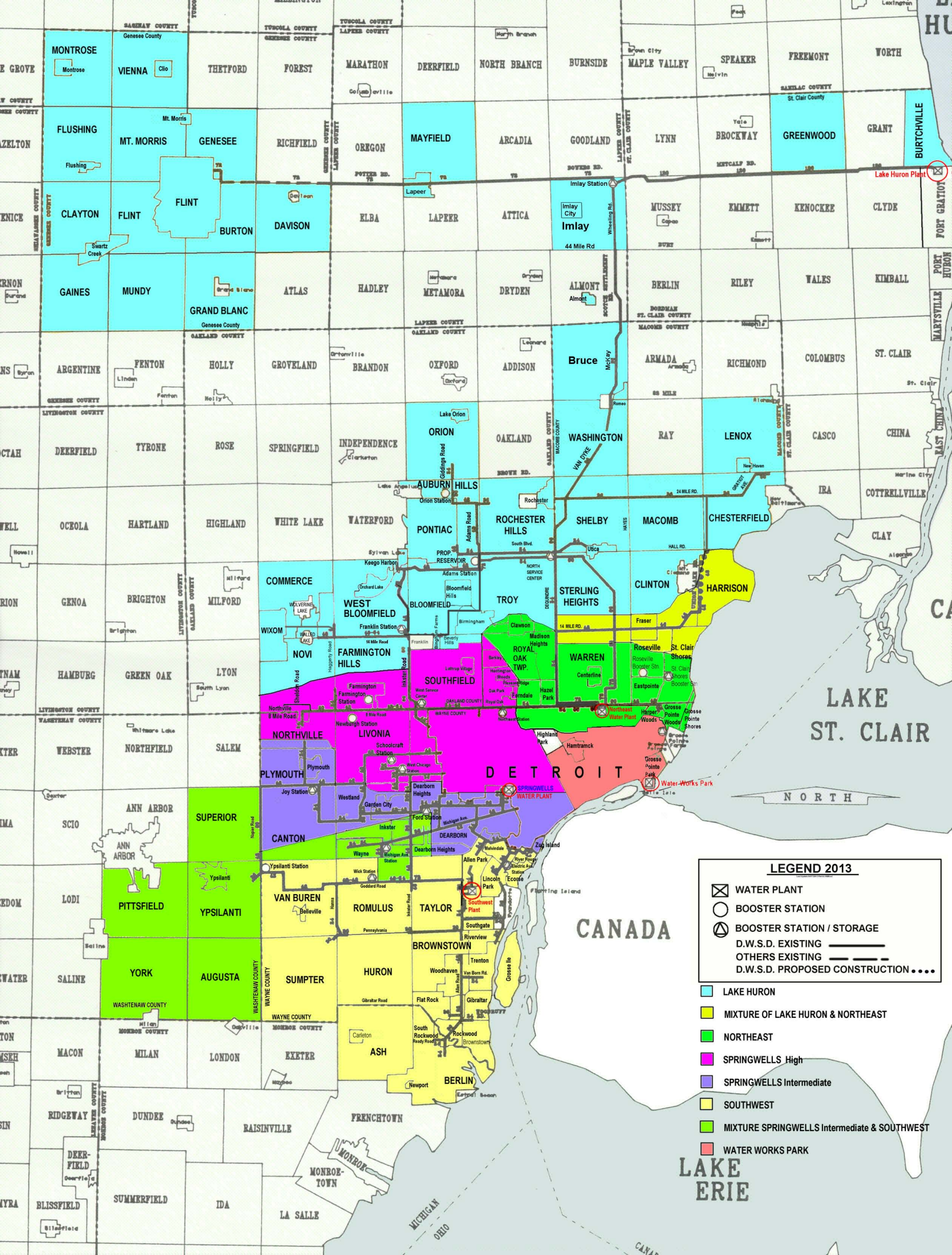
Sample Date: 01/10/2017

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.80	0.13	0.3/95% (1)		
Total Solids		mg/L	141	138		500	10
Total Dissolved Solids		mg/L	107	108		500	10
Aluminum	Al	mg/L	0.097	0.068		0.05-0.2	0.005
Iron	Fe	mg/L	0.239	0.121		0.3	0.005
Copper	Cu	mg/L	0.005	0.007	1.3 (AL)	1.0	0.002
Magnesium	Mg	mg/L	8.48	8.72			0.5
Calcium	Ca	mg/L	38.6	29.6			0.1
Sodium	Na	mg/L	7.73	5.23		20 (2)	0.1
Potassium	K	mg/L	1.06	1.00			0.1
Manganese	Mn	mg/L	0.004	0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.001
Zinc	Zn	mg/L	< 0.010	0.03		5	0.1
Silica	SiO ₂	mg/L	1.0	1.2			0.4
Sulfate	SO ₄ ²⁻	mg/L	18.6	28.7		250	
Chloride	Cl ⁻	mg/L	7.5	10.5		250	5
Phosphorus	P	mg/L	< 0.05	1.09			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.0	6.5			
Total Hardness (3), (4), (5)		mg/L	104	104			
Total Alkalinity (3)		mg/L	80	70			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	80	70			
Non-Carbonate Hardness (3)		mg/L	24	34			
Chemical Oxygen Demand		mg/L	5.2	7.2			2
Dissolved Oxygen		mg/L	15.5	15.2			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.33	0.24	10		0.1
Fluoride	F ⁻	mg/L	0.07	0.32	4.0	2.0	0.5
pH			8.20	7.33	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	221			
Temperature		°C	8.0	2.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of samples in any month and always be < 1 NTU
Sec.Std: Secondary Standard	(2) EPA Guidance Level
NTU: Nephelometric Turbidity Unit	(3) As Calcium Carbonate
mg/L: Milligram Per Liter	mg/L is equivalent to part per million (ppm)
AL: Action Level	
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 6.03 GPG
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

Analyst: Brian Brown Chemist-I Initial **B. B.** Date: 05/01/2017
 Reviewed By: Patrick Williford Chemist-II Initial **P. W.** Date: 05/04/2017

Great Lakes Water Authority



LEGEND 2013

- ☒ WATER PLANT
- BOOSTER STATION
- ⊕ BOOSTER STATION / STORAGE
- D.W.S.D. EXISTING
- - - OTHERS EXISTING
- ⋯ D.W.S.D. PROPOSED CONSTRUCTION

- ☐ LAKE HURON
- ☐ MIXTURE OF LAKE HURON & NORTHEAST
- ☐ NORTHEAST
- ☐ SPRINGWELLS High
- ☐ SPRINGWELLS Intermediate
- ☐ SOUTHWEST
- ☐ MIXTURE SPRINGWELLS Intermediate & SOUTHWEST
- ☐ WATER WORKS PARK

**LAKE
ERIE**

MICHIGAN
OHIO

NORTH

CANADA

LAKE
ST. CLAIR

DETROIT

HU

PORT
HURON

PORT
GRATIOT

MARYSVILLE

EAST
CHINA

COTTRELLVILLE

CLAY

IRA

CASCO

CHINA

ST. CLAIR

WORTH

FREEMONT

SPEAKER

MAPLE VALLEY

BURNSIDE

NORTH BRANCH

DEERFIELD

MARATHON

TOSCOLA COUNTY

GENESEE COUNTY

GENESEE COUNTY

VIENNA

THETFORD

FOREST

MARATHON

DEERFIELD

NORTH BRANCH

BURNSIDE

MAPLE VALLEY

SPEAKER

FREEMONT

WORTH

LAKE HURON PLANT

GRANT

BURCHVILLE

GRANT

CLYDE

KENOCKEE

EMMETT

BROCKWAY

LYNN

GOODLAND

ARCADIA

MAYFIELD

OREGON

RICHFIELD

GENESEE

MT. MORRIS

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