



**Water Quality Department**  
**Laboratory Analyses of Water Samples From**  
**Lake Huron Water Treatment Plant**  
**03/15/2016**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	1.00	0.06	0.3/95% (1)		
Total Solids		mg/L	135	140		500	10
Total Dissolved Solids		mg/L	109	111		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	< 0.050	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.010	< 0.005	1.3	1.0	0.002
Magnesium	Mg	mg/L	11.28	9.09			0.5
Calcium	Ca	mg/L	24.3	24.4			0.1
Sodium	Na	mg/L	4.94	5.02		20 (2)	0.1
Potassium	K	mg/L	0.89	0.87			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)		0.002
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO <sub>2</sub>	mg/L	1.1	1.3			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	17.0	18.9		250	
Chloride	Cl <sup>-</sup>	mg/L	6.5	7.5		250	5
Phosphorus	P	mg/L	< 0.05	0.37			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	6.7	5.9			
Total Hardness (3), (4), (5)		mg/L	104	100			
Total Alkalinity (3)		mg/L	82	72			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	82	72			
Non-Carbonate Hardness (3)		mg/L	22	28			
Chemical Oxygen Demand		mg/L	3.2	3.6			2
Dissolved Oxygen		mg/L	12.6	12.1			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO <sub>3</sub> <sup>-</sup> -N	mg/L	0.32	0.31	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.08	0.68	4.0	2.0	0.5
pH			7.39	7.39	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	232	243			
Temperature		°C	10.0	10.9			

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 <b>5.80 GPG</b>
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: 05/31/2016  
Reviewed By: Patrick Williford          Chemist-II                      Initial **P. W.**                      Date: 06/01/2016

**Great Lakes Water Authority**



**Water Quality Department**  
**Laboratory Analyses of Water Samples From**  
**Southwest Water Treatment Plant**  
**03/15/2016**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	7.90	0.04	0.3/95% (1)		
Total Solids		mg/L	163	153		500	10
Total Dissolved Solids		mg/L	127	139		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.105	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.023	< 0.005	1.3	1.0	0.002
Magnesium	Mg	mg/L	9.22	12.49			0.5
Calcium	Ca	mg/L	26.8	25.2			0.1
Sodium	Na	mg/L	6.49	6.37		20 (2)	0.1
Potassium	K	mg/L	1.00	0.99			0.1
Manganese	Mn	mg/L	0.005	< 0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015 (AL)		0.002
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO <sub>2</sub>	mg/L	0.9	1.1			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	18.3	22.9		250	
Chloride	Cl <sup>-</sup>	mg/L	9.0	10.5		250	5
Phosphorus	P	mg/L	< 0.05	0.33			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	3.6	7.9			
Total Hardness (3), (4), (5)		mg/L	106	104			
Total Alkalinity (3)		mg/L	90	72			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	90	72			
Non-Carbonate Hardness (3)		mg/L	16	32			
Chemical Oxygen Demand		mg/L	3.6	4.0			2
Dissolved Oxygen		mg/L	12.3	12.1			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO <sub>3</sub> <sup>-</sup> -N	mg/L	0.61	0.59	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.09	0.51	4.0	2.0	0.5
pH			7.70	7.26	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	209	244			
Temperature		°C	8.9	8.9			

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
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:                      05/31/2016  
Reviewed By: Patrick Williford          Chemist-II                      Initial    **P. W.**                      Date:                      06/01/2016

**Great Lakes Water Authority**



**Water Quality Department**  
**Laboratory Analyses of Water Samples From**  
**Water Works Park Water Treatment Plant**  
**03/15/2016**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.90	0.08	0.3/95% (1)		
Total Solids		mg/L	146	157		500	10
Total Dissolved Solids		mg/L	111	116		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.062	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.011	0.010	1.3	1.0	0.002
Magnesium	Mg	mg/L	12.08	9.36			0.5
Calcium	Ca	mg/L	26.2	26.3			0.1
Sodium	Na	mg/L	5.51	5.32		20 (2)	0.1
Potassium	K	mg/L	0.97	0.97			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)		0.002
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO <sub>2</sub>	mg/L	0.9	1.1			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	16.5	20.3		250	
Chloride	Cl <sup>-</sup>	mg/L	8.5	9.0		250	5
Phosphorus	P	mg/L	< 0.05	0.30			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	3.6	6.4			
Total Hardness (3), (4), (5)		mg/L	106	104			
Total Alkalinity (3)		mg/L	78	80			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	78	80			
Non-Carbonate Hardness (3)		mg/L	28	24			
Chemical Oxygen Demand		mg/L	10.4	5.6			2
Dissolved Oxygen		mg/L	9.7	10.1			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO <sub>3</sub> <sup>-</sup> -N	mg/L	0.43	0.39	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.09	0.63	4.0	2.0	0.5
pH			7.63	7.40	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	237	229			
Temperature		°C	14.9	15.3			

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 <b>6.03 GPG</b>
AE: Analytical Error	(6) Reported results are below the low calibration standard but above the instrument
IV: Invalid Sample	detection limit.

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Reviewed By: Patrick Williford          Chemist-II                      Initial **P. W.**                      Date: 06/01/2016

**Great Lakes Water Authority**



**Water Quality Department**  
**Laboratory Analyses of Water Samples From**  
**Northeast Water Treatment Plant**  
**03/15/2016**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.90	0.07	0.3/95% (1)		
Total Solids		mg/L	146	130		500	10
Total Dissolved Solids		mg/L	111	114		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.062	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.011	< 0.005	1.3	1.0	0.002
Magnesium	Mg	mg/L	12.08	11.49			0.5
Calcium	Ca	mg/L	26.2	24.2			0.1
Sodium	Na	mg/L	5.51	5.75		20 (2)	0.1
Potassium	K	mg/L	0.97	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)		0.002
Zinc	Zn	mg/L	< 0.010	< 0.010		5	0.1
Silica	SiO <sub>2</sub>	mg/L	0.9	1.1			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	16.5	23.2		250	
Chloride	Cl <sup>-</sup>	mg/L	8.5	9.0		250	5
Phosphorus	P	mg/L	< 0.05	0.28			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	3.6	10.1			
Total Hardness (3), (4), (5)		mg/L	106	104			
Total Alkalinity (3)		mg/L	78	86			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	78	86			
Non-Carbonate Hardness (3)		mg/L	28	18			
Chemical Oxygen Demand		mg/L	10.4	< 2.0			2
Dissolved Oxygen		mg/L	9.7	10.2			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO <sub>3</sub> <sup>-</sup> -N	mg/L	0.43	0.41	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.09	0.49	4.0	2.0	0.5
pH			7.63	7.23	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	237	233			
Temperature		°C	14.9	10.0			

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
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Reviewed By: Patrick Williford      Chemist-II      Initial    **P. W.**      Date:      06/01/2016

**Great Lakes Water Authority**



**Water Quality Department**  
**Laboratory Analyses of Water Samples From**  
**Springwells Water Treatment Plant**  
**03/15/2016**

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	4.90	0.03	0.3/95% (1)		
Total Solids		mg/L	146	135		500	10
Total Dissolved Solids		mg/L	111	121		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.062	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.011	< 0.005	1.3	1.0	0.002
Magnesium	Mg	mg/L	12.08	10.63			0.5
Calcium	Ca	mg/L	26.2	23.7			0.1
Sodium	Na	mg/L	5.51	5.31		20 (2)	0.1
Potassium	K	mg/L	0.97	0.95			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)		0.002
Zinc	Zn	mg/L	< 0.010	0.06		5	0.1
Silica	SiO <sub>2</sub>	mg/L	0.9	1.1			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	16.5	23.2		250	
Chloride	Cl <sup>-</sup>	mg/L	8.5	9.5		250	5
Phosphorus	P	mg/L	< 0.05	0.33			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	3.6	7.3			
Total Hardness (3), (4), (5)		mg/L	106	104			
Total Alkalinity (3)		mg/L	78	76			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	78	76			
Non-Carbonate Hardness (3)		mg/L	28	28			
Chemical Oxygen Demand		mg/L	10.4	< 2.0			2
Dissolved Oxygen		mg/L	9.7	12.1			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO <sub>3</sub> <sup>-</sup> -N	mg/L	0.43	0.38	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.09	0.47	4.0	2.0	0.5
pH			7.63	7.32	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	237	234			
Temperature		°C	14.9	9.9			

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
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:      05/31/2016  
Reviewed By: Patrick Williford      Chemist-II      Initial    **P. W.**      Date:      06/01/2016

**Great Lakes Water Authority**



**Water Quality Department**  
**Laboratory Analyses of Water Samples From all GLWA Water Treatment Plants**

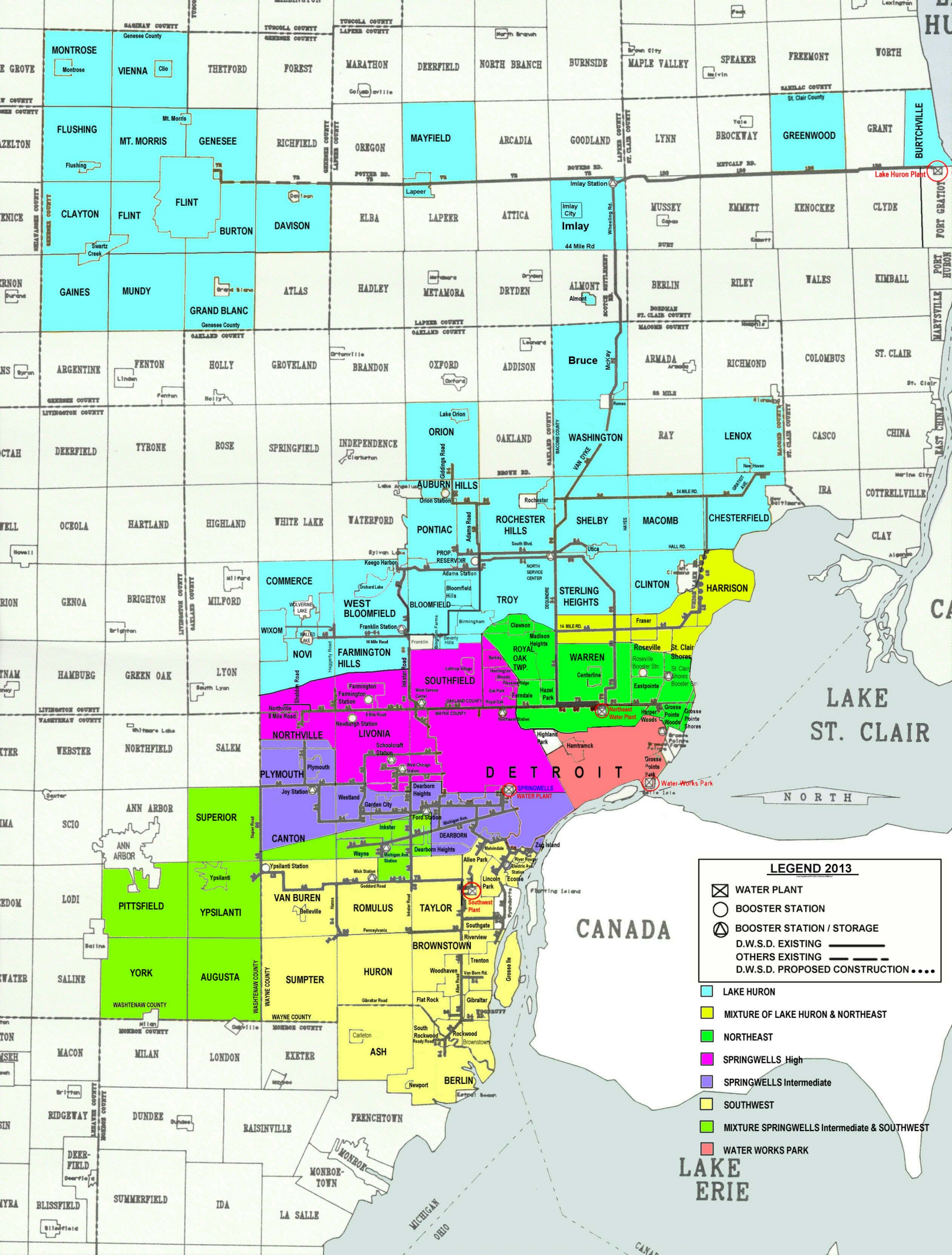
Date: 03/15/2016 03/15/2016 03/15/2016 03/15/2016 03/15/2016 03/15/2016 03/15/2016 03/15/2016

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	1.00	0.06	7.90	0.04	4.90	0.08	0.07	0.03	0.3/95% (1)		
Total Solids		mg/L	135	140	163	153	146	157	130	135		500	10
Total Dissolved Solids		mg/L	109	111	127	139	111	116	114	121		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	< 0.050	< 0.050	0.105	< 0.050	0.062	< 0.050	< 0.050	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.010	< 0.005	0.023	< 0.005	0.011	0.010	< 0.005	< 0.005	1.3	1.0	0.002
Magnesium	Mg	mg/L	11.28	9.09	9.22	12.49	12.08	9.36	11.49	10.63			0.5
Calcium	Ca	mg/L	24.3	24.4	26.8	25.2	26.2	26.3	24.2	23.7			0.1
Sodium	Na	mg/L	4.94	5.02	6.49	6.37	5.51	5.32	5.75	5.31		20 (2)	0.1
Potassium	K	mg/L	0.89	0.87	1.00	0.99	0.97	0.97	0.96	0.95			0.1
Manganese	Mn	mg/L	< 0.002	< 0.002	0.005	< 0.002	0.002	< 0.002	< 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)		0.002
Zinc	Zn	mg/L	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.06		5	0.1
Silica	SiO <sub>2</sub>	mg/L	1.1	1.3	0.9	1.1	0.9	1.1	1.1	1.1			0.4
Sulfate	SO <sub>4</sub> <sup>2-</sup>	mg/L	17.0	18.9	18.3	22.9	16.5	20.3	23.2	23.2		250	
Chloride	Cl <sup>-</sup>	mg/L	6.5	7.5	9.0	10.5	8.5	9.0	9.0	9.5		250	5
Phosphorus	P	mg/L	< 0.05	0.37	< 0.05	0.33	< 0.05	0.30	0.28	0.33			0.05
Free Carbon Dioxide	CO <sub>2</sub>	mg/L	6.7	5.9	3.6	7.9	3.6	6.4	10.1	7.3			
Total Hardness (3), (4), (5)		mg/L	104	100	106	104	106	104	104	104			
Total Alkalinity (3)		mg/L	82	72	90	72	78	80	86	76			
Carbonate Alkalinity (3)		mg/L	0	0	0	0	0	0	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	82	72	90	72	78	80	86	76			
Non-Carbonate Hardness (3)		mg/L	22	28	16	32	28	24	18	28			
Chemical Oxygen Demand		mg/L	3.2	3.6	3.6	4.0	10.4	5.6	< 2.0	< 2.0			2
Dissolved Oxygen		mg/L	12.6	12.1	12.3	12.1	9.7	10.1	10.2	12.1			
Nitrite Nitrogen	NO <sub>2</sub> <sup>-</sup> -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 <sub>3</sub> <sup>-</sup> -N	mg/L	0.32	0.31	0.61	0.59	0.43	0.39	0.41	0.38	10		0.1
Fluoride	F <sup>-</sup>	mg/L	0.08	0.68	0.09	0.51	0.09	0.63	0.49	0.47	4.0	2.0	0.5
pH			7.39	7.39	7.70	7.26	7.63	7.40	7.23	7.32	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	232	243	209	244	237	229	233	234			
Temperature		°C	10.0	10.9	8.9	8.9	14.9	15.3	10.0	9.9			

<b>Legend</b>	<b>Notes:</b>
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: 05/31/2016  
Reviewed By: Patrick Williford      Chemist-II      Initial      **P. W.**      Date: 06/01/2016

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

MONTROSE

VIENNA

THETFORD

FOREST

MARATHON

DEERFIELD

NORTH BRANCH

BURNSIDE

MAPLE VALLEY

SPEAKER

FREEMONT

WORTH

BURCHVILLE

FLUSHING

MT. MORRIS

GENESEE

RICHFIELD

OREGON

MAYFIELD

ARCADIA

GOODLAND

LYNN

BROCKWAY

GREENWOOD

GRANT

CLAYTON

FLINT

FLINT

BURTON

DAVISON

ELBA

LAPEER

ATTICA

IMLAY

MUSSEY

EMMETT

KENOCKEE

CLYDE

GAINES

MUNDY

GRAND BLANC

ATLAS

HADLEY

METAMORA

DRYDEN

ALMONT

BERLIN

RILEY

WALES

KIMBALL

ARGENTINE

FENTON

HOLLY

GROVELAND

BRANDON

OXFORD

ADDISON

BRUCE

ARMADA

RICHMOND

COLOMBUS

ST. CLAIR

DEERFIELD

TYBONE

ROSE

SPRINGFIELD

INDEPENDENCE

OAKLAND

WASHINGTON

RAY

LENOX

CASCO

CHINA

ST. CLAIR

OCOLA

HARTLAND

HIGHLAND

WHITE LAKE

WATERFORD

PONTIAC

ROCHESTER HILLS

SHELBY

MACOMB

CHESTERFIELD

CLAY

COTTRELLVILLE

GENOA

BRIGHTON

MILFORD

COMMERCE

WEST BLOOMFIELD

BLOOMFIELD

TROY

STERLING HEIGHTS

CLINTON

HARRISON

ROYAL OAK TWP

WARREN

HAMBURG

GREEN OAK

LYON

NOVI

FARMINGTON HILLS

SOUTHFIELD

ROSELAND

WARREN

ST. CLAIR SHORES

ST. CLAIR SHORES

ST. CLAIR SHORES

ST. CLAIR SHORES

WEBSTER

NORTHFIELD

SALEM

NORTHVILLE

LIVONIA

PLYMOUTH

DEARBORN

DEARBORN

DEARBORN

DEARBORN

DEARBORN

DEARBORN

ANN ARBOR

ANN ARBOR

ANN ARBOR

ANN ARBOR

ANN ARBOR

ANN ARBOR

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ANN ARBOR

ANN ARBOR

ANN ARBOR

ANN ARBOR

ANN ARBOR

LODI

PITTSFIELD

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

YPSILANTI

SALINE

YORK

AUGUSTA

SUMPTER

HURON

HURON

HURON

HURON

HURON

HURON

HURON

HURON

MACON

MILAN

LONDON

EXETER

ASH

ASH

ASH

ASH

ASH

ASH

ASH

ASH

RIDGEWAY

DUNDEE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

RAISINVILLE

BLISSFIELD

SUMMERFIELD

IDA

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE