



Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at
Lake Huron Plant
10/14/2014

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	0.43	0.04	0.3/95% (1)		
Total Solids		mg/L	103	116		500	10
Total Dissolved Solids		mg/L	112	142		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.053	< 0.050		0.3	0.005
Copper	Cu	mg/L	0.009	0.005	1.3		0.002
Magnesium	Mg	mg/L	7.08	7.18			0.5
Calcium	Ca	mg/L	25.5	24.9			0.1
Sodium	Na	mg/L	4.55	4.42		20 (2)	0.1
Potassium	K	mg/L	0.89	0.86			0.1
Manganese	Mn	mg/L	< 0.002	< 0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	0.4	0.7			0.4
Sulfate	SO ₄ ²⁻	mg/L	14.7	20.1			
Chloride	Cl ⁻	mg/L	8.0	9.5		250	5
Phosphorus	P	mg/L	< 0.05	0.37			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.3	3.4			
Total Hardness (3), (4), (5)		mg/L	98	98			
Total Alkalinity (3)		mg/L	81	72			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	81	72			
Non-Carbonate Hardness (3)		mg/L	17	26			
Chemical Oxygen Demand		mg/L	4.4	19.2			2
Dissolved Oxygen		mg/L	11.5	11.0			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.24	0.23	10	10	0.1
Fluoride	F ⁻	mg/L	0.10	0.62	4		0.5
pH			8.10	7.63	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	222	221			
Temperature		°C	19.0	19.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 5.68 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 Sr. Analytical Chemist Initial **B. B.** Date: 01/27/2015
 Reviewed By: Patrick Williford Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at
Southwest Plant
10/14/2014

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	3.10	0.06	0.3/95% (1)		
Total Solids		mg/L	124	171		500	10
Total Dissolved Solids		mg/L	125	129		500	10
Aluminum	Al	mg/L	0.192	0.087		0.05-0.2	0.005
Iron	Fe	mg/L	AE	0.072		0.3	0.005
Copper	Cu	mg/L	0.053	0.008	1.3		0.002
Magnesium	Mg	mg/L	8.07	8.09			0.5
Calcium	Ca	mg/L	29.2	27.3			0.1
Sodium	Na	mg/L	5.61	5.15		20 (2)	0.1
Potassium	K	mg/L	1.06	1.03			0.1
Manganese	Mn	mg/L	0.006	< 0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	0.4	0.9			0.4
Sulfate	SO ₄ ²⁻	mg/L	17.3	23.5			
Chloride	Cl ⁻	mg/L	IV	9.5		250	5
Phosphorus	P	mg/L	< 0.05	0.27			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.3	3.6			
Total Hardness (3), (4), (5)		mg/L	103	105			
Total Alkalinity (3)		mg/L	88	78			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	88	78			
Non-Carbonate Hardness (3)		mg/L	15	27			
Chemical Oxygen Demand		mg/L	2.4	14.4			2
Dissolved Oxygen		mg/L	10.7	10.4			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.28	0.23	10	10	0.1
Fluoride	F ⁻	mg/L	0.11	0.61	4		0.5
pH			8.11	7.64	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	237	239			
Temperature		°C	16.0	16.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 6.09 GPG
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 Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at
Water Works Park Plant
10/14/2014

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	1.00	0.12	0.3/95% (1)		
Total Solids		mg/L	150	145		500	10
Total Dissolved Solids		mg/L	54	125		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050		0.05-0.2	0.005
Iron	Fe	mg/L	0.094	0.358		0.3	0.005
Copper	Cu	mg/L	0.007	0.006	1.3		0.002
Magnesium	Mg	mg/L	7.45	7.15			0.5
Calcium	Ca	mg/L	26.1	25.3			0.1
Sodium	Na	mg/L	5.04	8.85		20 (2)	0.1
Potassium	K	mg/L	0.96	3.19			0.1
Manganese	Mn	mg/L	< 0.002	< 0.002		0.05	0.002
Lead	Pb	mg/L	< 0.002	< 0.002	0.015		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	AE	0.5			0.4
Sulfate	SO ₄ ²⁻	mg/L	15.8	11.9			
Chloride	Cl ⁻	mg/L	8.0	9.0		250	5
Phosphorus	P	mg/L	< 0.05	0.31			0.05
Free Carbon Dioxide	CO ₂	mg/L	6.1	4.9			
Total Hardness (3), (4), (5)		mg/L	101	102			
Total Alkalinity (3)		mg/L	84	74			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	84	74			
Non-Carbonate Hardness (3)		mg/L	17	28			
Chemical Oxygen Demand		mg/L	8.4	< 2.0			2
Dissolved Oxygen		mg/L	8.7	7.4			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.38	0.23	10	10	0.1
Fluoride	F ⁻	mg/L	0.10	0.58	4		0.5
pH			7.44	7.48	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	246			
Temperature		°C	18.9	17.9			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 5.92 GPG
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 Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at
Northeast Plant
10/14/2014

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	1.00	0.08	0.3/95% (1)		
Total Solids		mg/L	150	155		500	10
Total Dissolved Solids		mg/L	54	140		500	10
Aluminum	Al	mg/L	< 0.050	0.240		0.05-0.2	0.005
Iron	Fe	mg/L	0.094	0.108		0.3	0.005
Copper	Cu	mg/L	0.007	< 0.005	1.3		0.002
Magnesium	Mg	mg/L	7.45	7.77			0.5
Calcium	Ca	mg/L	26.1	28.2			0.1
Sodium	Na	mg/L	5.04	5.32		20 (2)	0.1
Potassium	K	mg/L	0.96	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		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	AE	0.8			0.4
Sulfate	SO ₄ ²⁻	mg/L	15.8	22.4			
Chloride	Cl ⁻	mg/L	8.0	10.5		250	5
Phosphorus	P	mg/L	< 0.05	0.35			0.05
Free Carbon Dioxide	CO ₂	mg/L	6.1	3.5			
Total Hardness (3), (4), (5)		mg/L	101	99			
Total Alkalinity (3)		mg/L	84	77			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	84	77			
Non-Carbonate Hardness (3)		mg/L	17	22			
Chemical Oxygen Demand		mg/L	8.4	< 2.0			2
Dissolved Oxygen		mg/L	8.7	11.2			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.38	0.22	10	10	0.1
Fluoride	F ⁻	mg/L	0.10	0.52	4		0.5
pH			7.44	7.64	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	233			
Temperature		°C	18.9	17.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 5.74 GPG
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 Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at
Springwells Plant
10/14/2014

Parameter	Formula	Units	Raw	Tap	MCL	Sec.Std	MDL
Turbidity		NTU	1.00	0.10	0.3/95% (1)		
Total Solids		mg/L	150	143		500	10
Total Dissolved Solids		mg/L	54	147		500	10
Aluminum	Al	mg/L	< 0.050	0.145		0.05-0.2	0.005
Iron	Fe	mg/L	0.094	0.063		0.3	0.005
Copper	Cu	mg/L	0.007	< 0.005	1.3		0.002
Magnesium	Mg	mg/L	7.45	7.51			0.5
Calcium	Ca	mg/L	26.1	29.5			0.1
Sodium	Na	mg/L	5.04	5.64		20 (2)	0.1
Potassium	K	mg/L	0.96	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		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	AE	0.7			0.4
Sulfate	SO ₄ ²⁻	mg/L	15.8	25.2			
Chloride	Cl ⁻	mg/L	8.0	9.0		250	5
Phosphorus	P	mg/L	< 0.05	0.55			0.05
Free Carbon Dioxide	CO ₂	mg/L	6.1	4.2			
Total Hardness (3), (4), (5)		mg/L	101	105			
Total Alkalinity (3)		mg/L	84	88			
Carbonate Alkalinity (3)		mg/L	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	84	88			
Non-Carbonate Hardness (3)		mg/L	17	17			
Chemical Oxygen Demand		mg/L	8.4	< 2.0			2
Dissolved Oxygen		mg/L	8.7	9.8			
Nitrite Nitrogen	NO ₂ ⁻ -N	mg/L	< 0.1	< 0.1	1		0.1
Nitrate Nitrogen	NO ₃ ⁻ -N	mg/L	0.38	0.17	10	10	0.1
Fluoride	F ⁻	mg/L	0.10	0.51	4		0.5
pH			7.44	7.62	6.5-8.5	6.5-8.5	
Specific Conductance @ 25 °C.		micromhos	226	233			
Temperature		°C	18.9	17.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
MDL: Method Detection Limit	(4) By Titration
< : Less than	(5) Tap Water Hardness in Grains per Gallon 6.09 GPG
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 Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



**Detroit Water and Sewerage Department
Water Quality Division
Laboratory Analysis of Water Samples Collected at Each Plant**

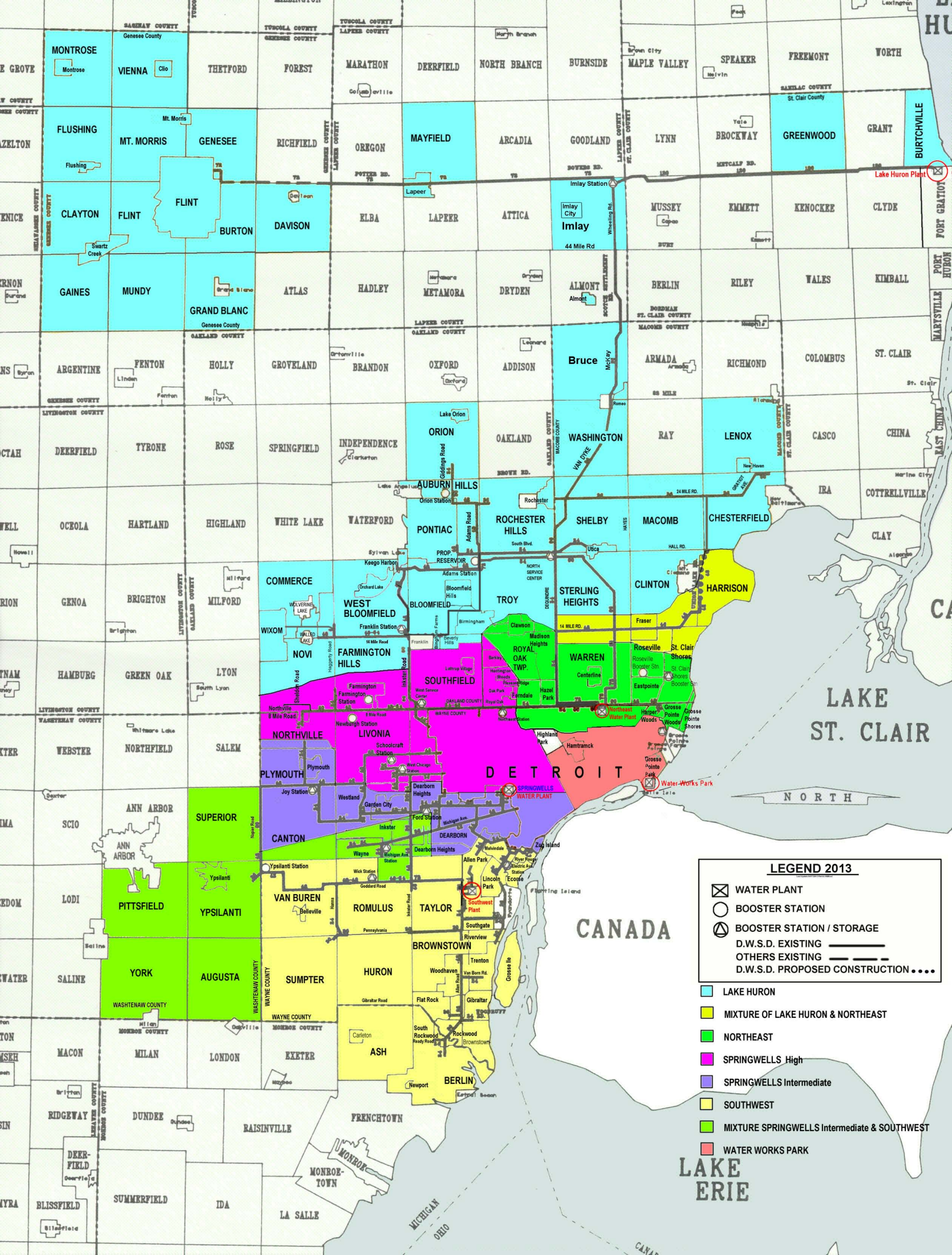
Date: 10/14/2014 10/14/2014 10/14/2014 10/14/2014 10/14/2014 10/14/2014 10/14/2014 10/14/2014

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	0.43	0.04	3.10	0.06	1.00	0.12	0.08	0.10	0.3 / 95% (1)		
Total Solids		mg/L	103	116	124	171	150	145	155	143		500	10
Total Dissolved Solids		mg/L	112	142	125	129	54	125	140	147		500	10
Aluminum	Al	mg/L	< 0.050	< 0.050	0.192	0.087	< 0.050	< 0.050	0.240	0.145		0.05 - 0.2	0.005
Iron	Fe	mg/L	0.053	< 0.050	AE	0.072	0.094	0.358	0.108	0.063		0.3	0.005
Copper	Cu	mg/L	0.009	0.005	0.053	0.008	0.007	0.006	< 0.005	< 0.005	1.3		0.002
Magnesium	Mg	mg/L	7.08	7.18	8.07	8.09	7.45	7.15	7.77	7.51			0.5
Calcium	Ca	mg/L	25.5	24.9	29.2	27.3	26.1	25.3	28.2	29.5			0.1
Sodium	Na	mg/L	4.55	4.42	5.61	5.15	5.04	8.85	5.32	5.64		20 (2)	0.1
Potassium	K	mg/L	0.89	0.86	1.06	1.03	0.96	3.19	0.95	0.96			0.1
Manganese	Mn	mg/L	< 0.002	< 0.002	0.006	< 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		0.002
Zinc	Zn	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		5	0.1
Silica	SiO ₂	mg/L	0.4	0.7	0.4	0.9	AE	0.5	0.8	0.7			0.4
Sulfate	SO ₄ ²⁻	mg/L	14.7	20.1	17.3	23.5	15.8	11.9	22.4	25.2			
Chloride	Cl ⁻	mg/L	8.0	9.5	IV	9.5	8.0	9.0	10.5	9.0		250	5
Phosphorus	P	mg/L	< 0.05	0.37	< 0.05	0.27	< 0.05	0.31	0.35	0.55			0.05
Free Carbon Dioxide	CO ₂	mg/L	1.3	3.4	1.3	3.6	6.1	4.9	3.5	4.2			
Total Hardness (3), (4), (5)		mg/L	98	98	103	105	101	102	99	105			
Total Alkalinity (3)		mg/L	81	72	88	78	84	74	77	88			
Carbonate Alkalinity (3)		mg/L	0	0	0	0	0	0	0	0			
Bi-Carbonate Alkalinity (3)		mg/L	81	72	88	78	84	74	77	88			
Non-Carbonate Hardness (3)		mg/L	17	26	15	27	17	28	22	17			
Chemical Oxygen Demand		mg/L	4.4	19.2	2.4	14.4	8.4	< 2.0	< 2.0	< 2.0			2
Dissolved Oxygen		mg/L	11.5	11.0	10.7	10.4	8.7	7.4	11.2	9.8			
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	0.24	0.23	0.28	0.23	0.38	0.23	0.22	0.17	10	10	0.1
Fluoride	F ⁻	mg/L	0.10	0.62	0.11	0.61	0.10	0.58	0.52	0.51	4		0.5
pH			8.10	7.63	8.11	7.64	7.44	7.48	7.64	7.62	6.5 - 8.5	6.5 - 8.5	
Specific Conductance @ 25 °C.		micromhos	222	221	237	239	226	246	237	233			
Temperature		°C	19.0	19.0	16.0	16.0	18.9	17.9	17.0	17.0			

Legend	Notes:
MCL: Maximum Contaminant Level	(1) Turbidity must not exceed 0.3 NTU in 95% of daily samples in any month
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)
µg/L: Microgram Per Liter	µg/L is equivalent to part per billion (ppb)
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 detection limit.
IV: Invalid Sample	

Analyst: Brian Brown Sr. Analytical Chemist Initial **B. B.** Date: 01/27/2015
 Reviewed By: Patrick Williford Principal Chemist Initial **P. W.** Date: 01/29/2015

Detroit Water & Sewerage Department



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

FLUSHING

MT. MORRIS

GENESEE

RICHFIELD

OREGON

MAYFIELD

ARCADIA

GOODLAND

LYNN

BROCKWAY

GREENWOOD

GRANT

BURCHVILLE

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

ST. CLAIR

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

GENOA

BRIGHTON

MILFORD

COMMERCE

WEST BLOOMFIELD

BLOOMFIELD

TROY

STERLING HEIGHTS

CLINTON

HARRISON

HAMBURG

GREEN OAK

LYON

NOVI

FARMINGTON HILLS

SOUTHFIELD

ROYAL OAK TWP

WARREN

ST. CLAIR SHORES

ST. CLAIR SHORES

ST. CLAIR SHORES

WEBSTER

NORTHFIELD

SALEM

NORTHVILLE

LIVONIA

PLYMOUTH

DEARBORN

DEARBORN

DEARBORN

DEARBORN

DEARBORN

ANN ARBOR

ANN ARBOR

SUPERIOR

CANTON

PLYMOUTH

PLYMOUTH

PLYMOUTH

PLYMOUTH

PLYMOUTH

PLYMOUTH

PLYMOUTH

LODI

PITTSFIELD

YPSILANTI

VAN BUREN

ROMULUS

TAYLOR

BROWNSTOWN

BROWNSTOWN

BROWNSTOWN

BROWNSTOWN

BROWNSTOWN

SALINE

YORK

AUGUSTA

SUMPTER

HURON

HURON

HURON

HURON

HURON

HURON

HURON

MACON

MILAN

LONDON

EXETER

ASH

ASH

ASH

ASH

ASH

ASH

ASH

RIDGEWAY

DUNDEE

RAISINVILLE

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

FRENCHTOWN

BLISSFIELD

SUMMERFIELD

IDA

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE

LA SALLE