



Water: RAW  
Year: 2021

Plant Name: **Lake Huron (LH)**

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

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates				
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	1.87	0.25	<b>0.59</b>	0.41	0.38	1.87	0.52	1.16	0.31	0.30	0.35	0.25	0.64	0.58	0.27	0.3/95% (1)			<b>0.48</b>	
Total Solids	mg/L	161	79	<b>131</b>	142	126	108	128	140	152	161	145	143	138	114	79		500	10	<b>22</b>	
Total Dissolved Solids	mg/L	156	82	<b>118</b>	122	114	108	113	119	141	156	131	82	128	114	92		500	10	<b>20</b>	
Aluminum	mg/L	0.080	0.003	<b>0.016</b>	0.004	0.005	0.030	0.003	0.080	0.008	AE	0.005	0.005	0.014	0.016	NA	0.05-0.2		0.001	<b>0.024</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.2	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2		0.3	0.1	<b>0.040</b>	
Copper	mg/L	0.012	0.006	<b>0.009</b>	0.009	0.006	0.007	0.007	0.012	0.007	0.012	0.009	0.008	0.012	0.010	0.007	1.3 (AL)		0.001	<b>0.002</b>	
Magnesium	mg/L	7.9	5.9	<b>7.3</b>	7.9	5.9	6.3	6.3	7.7	7.8	7.8	7.6	7.4	7.8	7.9	7.5			0.1	<b>0.71</b>	
Calcium	mg/L	26.9	20.1	<b>24.8</b>	26.2	20.1	21.6	22.0	26.1	26.2	26.2	25.5	25.1	26.9	26.3	25.3			0.1	<b>2.2</b>	
Sodium	mg/L	6.1	3.8	<b>4.8</b>	5.1	3.8	4.1	3.9	4.8	5.1	5.0	6.1	5.2	4.8	4.9	4.7	20 (2)		0.1	<b>0.62</b>	
Potassium	mg/L	1.0	0.8	<b>0.9</b>	1.0	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			0.1	<b>0.10</b>	
Manganese	mg/L	0.002	ND	<b>0.000</b>	< 0.001	< 0.001	0.002	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001	< 0.001		0.05	0.001	<b>0.000</b>	
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.015 (AL)		0.001		
Zinc	mg/L	0.013	ND	<b>0.003</b>	0.002	0.013	0.002	0.002	< 0.001	< 0.001	0.003	0.002	0.003	0.004	< 0.001	0.003		5	0.001	<b>0.00</b>	
Silica	mg/L	2.5	1.6	<b>2.0</b>	2.1	2.0	2.3	2.2	1.6	1.7	1.6	1.7	1.8	2.5	2.1	2.0			0.4	<b>0.3</b>	
Sulfate	mg/L	17.2	14.8	<b>16.1</b>	16.4	16.5	17.2	15.6	16.7	17.0	14.8	16.8	16.2	15.3	15.4	15.4				<b>0.8</b>	
Chloride	mg/L	9.0	7.4	<b>8.0</b>	7.5	8.4	8.7	7.4	8.3	8.0	7.4	8.4	7.4	7.9	8.0	9.0	250		5	<b>0.5</b>	
Phosphorus	mg/L	ND	ND	<b>0.00</b>	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			0.05		
Free Carbon Dioxide	mg/L	2.6	0.8	<b>1.2</b>	1.0	0.8	1.4	1.2	1.0	1.0	1.1	1.0	1.1	2.6	0.9	1.3				<b>0.5</b>	
Total Hardness (3), (4), (5)	mg/L	108	80	<b>97</b>	98	108	106	98	98	96	94	103	102	96	86	80				<b>8</b>	
Total Alkalinity (3)	mg/L	98	78	<b>83</b>	80	84	88	82	82	98	80	84	81	84	78	80				<b>5</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	96	77	<b>82</b>	79	82	87	81	81	96	79	83	80	83	77	79				<b>5</b>	
Non-Carbonate Hardness (3)	mg/L	24	-2	<b>14</b>	18	24	18	16	16	-2	14	19	21	12	8	0				<b>8</b>	
Chemical Oxygen Demand	mg/L	5.8	ND	<b>3.1</b>	4.0	2.5	4.9	3.0	2.7	3.3	3.7	2.6	< 2	5.8	4.6	< 2			2	<b>1.1</b>	
Dissolved Oxygen	mg/L	12.1	6.6	<b>10.0</b>	11.7	11.7	11.8	12.1	11.0	10.2	8.4	8.2	7.7	6.6	9.3	11.0				<b>1.9</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			1	0.1	
Nitrate Nitrogen	mg/L	0.42	0.29	<b>0.34</b>	0.36	0.34	0.35	0.32	0.37	0.33	0.37	0.31	0.30	0.42	0.31	0.29		10	10	0.1	<b>0.04</b>
Fluoride	mg/L	0.12	0.06	<b>0.09</b>	0.07	0.06	0.09	0.08	0.12	0.09	0.09	0.10	0.11	0.11	0.11	0.11			4	0.5	<b>0.02</b>
pH		8.32	7.80	<b>8.16</b>	8.20	8.32	8.10	8.12	8.20	8.30	8.14	8.21	8.18	7.80	8.21	8.08	6.5-8.5	6.5-8.5			<b>0.13</b>
Specific Conductance @ 25 °C.	µmhos	224	185	<b>211</b>	185	210	224	215	213	199	222	212	212	217	209	215					<b>10</b>
Temperature	°C	22.5	7.1	<b>14.8</b>	10.1	7.1	10.5	11.6	11.6	12.8	21.6	21.1	22.5	18.3	17.8	13.0					<b>5.2</b>

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average	
6.3	4.6	5.6	GPG



Water: TAP  
Year: 2021

Plant Name: **Lake Huron (LH)**

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**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates				
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	0.11	0.04	<b>0.07</b>	0.07	0.08	0.04	0.07	0.06	0.06	0.08	0.09	0.11	0.09	0.07	0.08	0.3/95% (1)			<b>0.02</b>	
Total Solids	mg/L	164	70	<b>124</b>	135	111	120	70	86	155	164	152	148	147	121	83		500	10	<b>31</b>	
Total Dissolved Solids	mg/L	148	68	<b>113</b>	129	116	110	83	87	148	131	135	120	131	68	95		500	10	<b>25</b>	
Aluminum	mg/L	0.139	0.023	<b>0.084</b>	0.045	0.050	0.023	0.025	0.041	0.065	0.101	0.139	0.112	0.070	0.45	NA		0.05-0.2	0.001	<b>0.039</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		0.3	0.1	<b>0.042</b>	
Copper	mg/L	0.001	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		1.3 (AL)	0.001		
Magnesium	mg/L	8.3	6.0	<b>7.4</b>	7.6	6.0	6.3	6.8	7.8	8.3	7.5	7.4	7.7	7.9	7.5	7.7			0.1	<b>0.66</b>	
Calcium	mg/L	27.7	20.5	<b>25.0</b>	25.6	20.5	21.6	23.6	26.5	27.7	25.3	24.8	25.7	26.9	25.3	26.1			0.1	<b>2.1</b>	
Sodium	mg/L	16.1	4.0	<b>5.8</b>	4.9	4.0	4.1	4.2	4.8	5.3	16.1	6.3	5.3	4.9	4.7	4.9		20 (2)	0.1	<b>3.31</b>	
Potassium	mg/L	1.1	0.8	<b>1.0</b>	1.0	0.8	0.8	0.9	1.0	1.1	1.0	0.9	1.0	1.0	1.0	1.0			0.1	<b>0.09</b>	
Manganese	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		0.05	0.001		
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		0.015 (AL)	0.001		
Zinc	mg/L	0.003	ND	<b>0.001</b>	0.002	< 0.001	0.001	0.003	< 0.001	0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		5	0.001	<b>0.00</b>	
Silica	mg/L	2.5	1.8	<b>2.2</b>	2.2	2.3	2.5	2.5	1.9	2.0	1.8	2.0	2.1	2.5	2.3	2.3			0.4	<b>0.2</b>	
Sulfate	mg/L	22.4	17.3	<b>19.3</b>	19.5	21.0	22.4	19.3	19.4	19.6	17.3	19.2	17.6	19.1	18.6	18.7				<b>1.4</b>	
Chloride	mg/L	10.1	8.4	<b>9.6</b>	9.0	9.4	10.1	8.4	9.6	10.0	9.2	9.9	9.4	9.9	10.0	10.0		250	5	<b>0.5</b>	
Phosphorus	mg/L	0.48	0.36	<b>0.40</b>	0.42	0.41	0.38	0.36	0.48	0.37	0.39	0.41	0.39	0.43	0.39	0.39			0.05	<b>0.03</b>	
Free Carbon Dioxide	mg/L	8.3	4.4	<b>5.8</b>	5.9	4.4	7.8	6.3	4.7	6.0	5.1	5.0	5.1	8.3	5.5	5.2				<b>1.2</b>	
Total Hardness (3), (4), (5)	mg/L	107	85	<b>98</b>	100	104	107	96	96	102	96	103	100	98	85	94				<b>6</b>	
Total Alkalinity (3)	mg/L	78	72	<b>75</b>	74	76	78	74	74	76	74	75	74	74	72	74				<b>2</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	78	72	<b>74</b>	74	76	78	74	74	76	74	75	74	74	72	74				<b>2</b>	
Non-Carbonate Hardness (3)	mg/L	29	13	<b>24</b>	26	28	29	22	22	26	22	28	26	24	13	20				<b>4</b>	
Chemical Oxygen Demand	mg/L	5.0	ND	<b>1.9</b>	2.5	< 2	4.5	< 2	< 2	2.9	3.0	< 2	< 2	5.0	4.8	< 2			2	<b>1.1</b>	
Dissolved Oxygen	mg/L	12.6	8.3	<b>10.5</b>	12.0	12.2	12.0	12.6	11.1	10.6	8.8	8.6	8.5	8.3	10.3	11.3				<b>1.6</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		1	0.1		
Nitrate Nitrogen	mg/L	0.37	0.29	<b>0.33</b>	0.35	0.33	0.34	0.31	0.36	0.33	0.35	0.31	0.29	0.37	0.29	0.31		10	10	0.1	<b>0.03</b>
Fluoride	mg/L	0.80	0.59	<b>0.67</b>	0.66	0.59	0.60	0.62	0.69	0.64	0.64	0.67	0.77	0.80	0.64	0.67		4	0.5		<b>0.06</b>
pH		7.53	7.25	<b>7.42</b>	7.40	7.53	7.30	7.37	7.50	7.40	7.46	7.48	7.46	7.25	7.42	7.45		6.5-8.5	6.5-8.5		<b>0.08</b>
Specific Conductance @ 25 °C.	µmhos	312	188	<b>222</b>	188	213	231	219	312	199	226	217	216	221	209	216					<b>31</b>
Temperature	°C	23.0	4.2	<b>15.2</b>	20.6	4.2	6.3	9.6	11.6	16.0	21.4	23.0	22.3	20.1	16.2	11.3					<b>6.5</b>

Legend	Notes:
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mg/L: Milligram Per Liter (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
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Maximum	Minimum	Average	
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Water: RAW  
Year: 2021

Plant Name: **Southwest (SW)**

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					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	12.00	0.98	<b>2.44</b>	1.70	1.00	4.60	1.10	1.10	1.50	1.00	1.20	1.20	0.98	1.94	12.00	0.3/95% (1)			<b>3.17</b>	
Total Solids	mg/L	176	92	<b>133</b>	137	120	110	131	149	176	115	131	148	144	141	92		500	10	<b>22</b>	
Total Dissolved Solids	mg/L	154	87	<b>122</b>	154	94	87	138	133	145	122	131	98	141	126	95		500	10	<b>23</b>	
Aluminum	mg/L	0.053	0.039	<b>0.041</b>	AE	0.039	AE	0.053	0.052	AE	0.052	0.048	0.043	0.040	AE	NA		0.05-0.2	0.001	<b>0.006</b>	
Iron	mg/L	0.5	0.2	<b>0.3</b>	0.3	0.2	0.4	0.2	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.5	12.000	0.3	0.1	<b>0.100</b>	
Copper	mg/L	0.065	0.028	<b>0.049</b>	0.056	0.048	0.053	0.063	0.059	0.065	0.038	0.028	0.031	0.059	0.049	0.041	1.3 (AL)		0.001	<b>0.012</b>	
Magnesium	mg/L	8.3	6.3	<b>7.4</b>	7.3	6.3	7.3	6.9	8.3	7.6	7.9	7.8	7.8	7.8	7.6	6.7			0.1	<b>0.58</b>	
Calcium	mg/L	29.2	21.7	<b>25.7</b>	25.4	21.7	25.3	24.2	29.2	25.9	25.3	25.5	25.6	27.6	28.4	23.8			0.1	<b>2.0</b>	
Sodium	mg/L	5.9	4.0	<b>4.5</b>	5.2	4.3	4.0	4.3	5.9	AE	5.5	5.2	5.0	5.1	AE	NA	20 (2)		0.1	<b>0.61</b>	
Potassium	mg/L	1.3	0.8	<b>1.0</b>	1.0	0.8	1.0	0.9	1.1	1.0	1.0	1.0	1.0	1.2	1.3	1.0			0.1	<b>0.12</b>	
Manganese	mg/L	0.006	ND	<b>0.002</b>	0.001	< 0.001	0.004	0.001	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.006		0.05	0.001	<b>0.001</b>	
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.015 (AL)		0.001		
Zinc	mg/L	0.003	ND	<b>0.000</b>	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.003		5	0.001	<b>0.00</b>	
Silica	mg/L	2.6	1.1	<b>1.9</b>	2.1	2.1	2.0	2.1	1.1	1.8	1.3	1.8	1.9	2.2	2.6	2.3			0.4	<b>0.4</b>	
Sulfate	mg/L	18.0	15.6	<b>16.8</b>	18.0	16.6	17.2	16.3	17.3	17.2	15.9	17.4	16.3	15.6	17.1	16.3				<b>0.7</b>	
Chloride	mg/L	15.0	7.4	<b>9.4</b>	9.4	9.4	9.2	8.9	10.2	8.0	8.9	8.9	7.9	7.4	9.5	15.0		250	5	<b>1.9</b>	
Phosphorus	mg/L	ND	ND	<b>0.00</b>	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			0.05		
Free Carbon Dioxide	mg/L	8.0	0.4	<b>1.6</b>	1.4	1.2	1.5	1.2	0.8	8.0	0.4	0.4	0.5	1.3	1.2	1.4				<b>2.0</b>	
Total Hardness (3), (4), (5)	mg/L	108	84	<b>101</b>	102	108	102	102	106	104	96	104	104	98	98	84				<b>6</b>	
Total Alkalinity (3)	mg/L	96	76	<b>85</b>	82	86	85	84	86	96	80	84	82	86	88	76				<b>5</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	96	75	<b>83</b>	81	85	84	83	84	96	77	81	80	85	87	75				<b>5</b>	
Non-Carbonate Hardness (3)	mg/L	22	8	<b>16</b>	20	22	17	18	20	8	16	20	22	12	10	8				<b>5</b>	
Chemical Oxygen Demand	mg/L	7.5	ND	<b>3.5</b>	4.5	5.0	5.1	< 2	2.9	3.3	4.3	4.2	< 2	5.1	7.5	< 2			2	<b>1.3</b>	
Dissolved Oxygen	mg/L	12.1	7.6	<b>10.0</b>	11.9	12.1	11.3	11.8	10.4	8.6	7.6	8.5	8.0	8.1	10.5	11.0				<b>1.7</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			1	0.1	
Nitrate Nitrogen	mg/L	0.63	0.20	<b>0.38</b>	0.54	0.34	0.35	0.34	0.47	0.36	0.28	0.36	0.20	0.41	0.63	0.32		10	10	0.1	<b>0.11</b>
Fluoride	mg/L	0.13	0.06	<b>0.10</b>	0.07	0.06	0.08	0.09	0.10	0.09	0.09	0.10	0.11	0.12	0.13	0.11		4		0.5	<b>0.02</b>
pH		8.58	7.38	<b>8.17</b>	8.05	8.14	8.05	8.13	8.31	7.38	8.56	8.58	8.47	8.12	8.16	8.03	6.5-8.5	6.5-8.5			<b>0.32</b>
Specific Conductance @ 25 °C.	µmhos	231	194	<b>218</b>	194	215	223	222	231	198	226	221	216	225	227	219					<b>11</b>
Temperature	°C	24.4	2.9	<b>13.8</b>	8.9	2.9	4.3	10.2	10.7	20.6	22.1	24.4	22.4	20.0	11.8	7.7					<b>7.6</b>

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average	
6.3	4.9	5.8	GPG



Water: TAP  
Year: 2021

Plant Name: **Southwest (SW)**

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

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates				
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	0.23	0.03	<b>0.09</b>	0.09	0.04	0.05	0.10	0.07	0.23	0.06	0.09	0.11	0.12	0.03	0.05	0.3/95% (1)			<b>0.05</b>	
Total Solids	mg/L	172	97	<b>133</b>	114	128	116	136	113	172	127	147	148	154	142	97		500	10	<b>21</b>	
Total Dissolved Solids	mg/L	150	75	<b>124</b>	109	147	75	112	140	150	131	146	104	143	133	103		500	10	<b>23</b>	
Aluminum	mg/L	0.115	0.023	<b>0.049</b>	0.023	0.030	0.031	0.023	0.032	0.096	0.115	0.065	0.077	0.057	0.033	NA		0.05-0.2	0.001	<b>0.032</b>	
Iron	mg/L	0.2	0.1	<b>0.2</b>	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		0.3	0.1	<b>0.031</b>	
Copper	mg/L	0.001	ND	<b>0.000</b>	< 0.001	< 0.001	0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.3 (AL)		0.001	<b>0.000</b>	
Magnesium	mg/L	8.3	5.9	<b>7.5</b>	7.7	6.4	5.9	6.8	8.3	8.3	7.9	7.7	7.9	7.8	8.2	7.6			0.1	<b>0.76</b>	
Calcium	mg/L	29.9	20.8	<b>26.1</b>	26.2	22.1	20.8	24.1	29.3	28.0	25.7	25.4	26.3	27.9	29.9	27.2			0.1	<b>2.7</b>	
Sodium	mg/L	6.0	4.1	<b>5.2</b>	5.1	4.9	4.1	4.5	6.0	5.4	5.4	5.2	5.7	5.3	5.6	5.0		20 (2)	0.1	<b>0.53</b>	
Potassium	mg/L	1.3	0.8	<b>1.0</b>	1.0	0.8	0.8	0.9	1.1	1.0	1.0	1.0	1.0	1.2	1.3	1.0			0.1	<b>0.14</b>	
Manganese	mg/L	0.002	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	< 0.001	0.002		0.05	0.001	<b>0.000</b>	
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.015 (AL)		0.001		
Zinc	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		5	0.001		
Silica	mg/L	2.6	1.3	<b>2.1</b>	2.2	2.3	2.3	2.3	1.3	1.9	1.5	1.9	2.0	2.3	2.6	2.4			0.4	<b>0.4</b>	
Sulfate	mg/L	31.3	20.7	<b>24.4</b>	23.0	22.9	22.9	22.5	24.9	22.8	20.7	29.4	24.3	22.8	25.1	31.3				<b>3.1</b>	
Chloride	mg/L	13.5	9.4	<b>10.8</b>	9.9	11.4	10.4	9.4	12.2	10.0	10.9	10.9	9.9	10.4	11.0	13.5		250	5	<b>1.1</b>	
Phosphorus	mg/L	0.45	0.30	<b>0.37</b>	0.45	0.33	0.37	0.38	0.44	0.33	0.30	0.39	0.34	0.36	0.37	0.42			0.05	<b>0.05</b>	
Free Carbon Dioxide	mg/L	10.7	0.7	<b>7.0</b>	6.4	6.2	7.2	6.6	10.7	0.7	5.7	9.6	7.5	7.5	6.2	9.5				<b>2.5</b>	
Total Hardness (3), (4), (5)	mg/L	108	96	<b>101</b>	100	106	102	98	108	100	96	105	102	96	97	100				<b>4</b>	
Total Alkalinity (3)	mg/L	76	64	<b>72</b>	72	76	75	72	76	76	72	65	68	72	76	64				<b>4</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	76	64	<b>72</b>	72	76	75	72	76	75	72	65	68	72	76	64				<b>4</b>	
Non-Carbonate Hardness (3)	mg/L	40	21	<b>29</b>	28	30	27	26	32	24	24	40	34	24	21	36				<b>6</b>	
Chemical Oxygen Demand	mg/L	3.9	ND	<b>1.1</b>	< 2	< 2	2.8	< 2	< 2	2.9	3.9	< 2	< 2	< 2	< 2	3.6			2	<b>0.5</b>	
Dissolved Oxygen	mg/L	12.3	7.9	<b>10.1</b>	12.1	12.3	11.7	11.6	10.4	8.7	7.9	8.5	8.4	8.6	10.4	11.3				<b>1.6</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		1	0.1		
Nitrate Nitrogen	mg/L	0.55	0.21	<b>0.37</b>	0.43	0.33	0.33	0.37	0.50	0.34	0.28	0.32	0.21	0.39	0.55	0.34		10	10	0.1	<b>0.09</b>
Fluoride	mg/L	0.76	0.17	<b>0.57</b>	0.47	0.47	0.58	0.58	0.17	0.63	0.76	0.66	0.72	0.70	0.57	0.55		4	0.5		<b>0.16</b>
pH		8.30	7.13	<b>7.37</b>	7.35	7.39	7.32	7.34	7.15	8.30	7.40	7.13	7.26	7.28	7.39	7.13		6.5-8.5	6.5-8.5		<b>0.31</b>
Specific Conductance @ 25 °C.	µmhos	241	194	<b>224</b>	194	225	229	230	241	198	231	228	222	232	226	231					<b>14</b>
Temperature	°C	24.0	1.8	<b>13.4</b>	6.2	1.8	5.3	10.5	10.5	20.6	22.1	24.0	21.8	20.0	11.5	6.8					<b>7.8</b>

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average	
6.3	5.6	5.8	GPG



Water: RAW  
Year: 2021

Plant Name: **Belle Isle (WWP-SPW-NE)**

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

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates				
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	11.00	0.71	<b>2.57</b>	1.60	1.62	5.86	2.75	0.91	1.41	1.13	0.81	0.71	0.91	2.16	11.00	0.3/95% (1)			<b>3.01</b>	
Total Solids	mg/L	160	86	<b>130</b>	86	135	96	148	113	160	160	147	149	139	132	90		500	10	<b>27</b>	
Total Dissolved Solids	mg/L	148	89	<b>118</b>	123	131	93	129	120	138	101	148	119	123	99	89		500	10	<b>18</b>	
Aluminum	mg/L	0.048	0.030	<b>0.034</b>	0.031	0.047	AE	AE	0.048	AE	AE	0.048	0.030	AE	AE	NA		0.05-0.2	0.001	<b>0.009</b>	
Iron	mg/L	0.6	0.2	<b>0.3</b>	0.2	0.2	0.5	0.4	0.2	0.4	0.3	0.3	0.3	0.3	0.3	0.6		0.3	0.1	<b>0.121</b>	
Copper	mg/L	0.002	ND	<b>0.000</b>	< 0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.001	1.3 (AL)		0.001	<b>0.000</b>	
Magnesium	mg/L	8.1	6.2	<b>7.4</b>	7.2	6.2	7.5	7.2	7.6	8.1	7.7	7.6	7.6	7.2	7.4	6.9			0.1	<b>0.46</b>	
Calcium	mg/L	27.1	21.5	<b>25.2</b>	24.3	21.5	25.7	25.3	26.0	27.1	25.7	25.0	25.8	25.3	26.0	24.2			0.1	<b>1.4</b>	
Sodium	mg/L	5.3	4.4	<b>4.3</b>	4.6	5.1	4.4	AE	4.7	5.3	5.1	4.8	4.8	AE	AE	NA	20 (2)		0.1	<b>0.29</b>	
Potassium	mg/L	1.2	0.8	<b>1.0</b>	0.9	0.8	1.1	1.0	1.0	1.0	1.0	0.9	1.0	1.1	1.2	1.1			0.1	<b>0.09</b>	
Manganese	mg/L	0.006	ND	<b>0.003</b>	0.002	0.001	0.005	0.002	< 0.001	0.004	0.003	0.003	0.002	0.004	0.003	0.006		0.05	0.001	<b>0.002</b>	
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.015 (AL)		0.001	<b>0.000</b>	
Zinc	mg/L	0.004	ND	<b>0.001</b>	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	0.003		5	0.001	<b>0.00</b>	
Silica	mg/L	2.4	1.4	<b>2.0</b>	2.0	2.1	2.0	2.1	1.4	1.8	1.7	1.7	1.9	2.1	2.4	2.2			0.4	<b>0.3</b>	
Sulfate	mg/L	17.1	15.5	<b>16.4</b>	16.8	16.4	17.1	15.6	16.8	16.9	15.5	17.1	16.0	15.8	16.7	16.4				<b>0.6</b>	
Chloride	mg/L	9.9	3.0	<b>7.9</b>	7.5	9.9	8.4	8.4	7.8	9.0	8.9	8.4	7.4	7.9	8.5	3.0		250	5	<b>1.7</b>	
Phosphorus	mg/L	ND	ND	<b>0.00</b>	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05			0.05	<b>0.00</b>	
Free Carbon Dioxide	mg/L	1.7	0.1	<b>1.0</b>	0.9	1.5	1.3	1.1	0.8	0.8	0.7	0.1	0.8	1.7	1.3	1.3				<b>0.4</b>	
Total Hardness (3), (4), (5)	mg/L	112	92	<b>99</b>	98	112	103	96	100	102	94	104	104	94	92	92				<b>6</b>	
Total Alkalinity (3)	mg/L	86	14	<b>76</b>	82	86	86	82	84	78	78	14	76	82	82	80				<b>20</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	85	13	<b>75</b>	81	85	85	81	82	77	76	13	75	81	81	79				<b>20</b>	
Non-Carbonate Hardness (3)	mg/L	90	10	<b>23</b>	16	26	17	14	16	24	16	90	28	12	10	12				<b>22</b>	
Chemical Oxygen Demand	mg/L	6.7	ND	<b>3.9</b>	3.5	2.8	6.6	3.7	2.9	4.3	4.1	4.2	2.8	6.7	5.5	< 2			2	<b>1.4</b>	
Dissolved Oxygen	mg/L	16.5	7.4	<b>11.5</b>	13.8	13.8	12.7	12.8	11.6	9.5	8.2	16.5	7.4	8.3	10.7	12.5				<b>2.7</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1			1	<b>0.0</b>	
Nitrate Nitrogen	mg/L	0.46	0.25	<b>0.34</b>	0.38	0.35	0.34	0.33	0.31	0.33	0.33	0.25	0.29	0.42	0.46	0.30		10	10	0.1	<b>0.06</b>
Fluoride	mg/L	0.14	0.06	<b>0.10</b>	0.07	0.06	0.09	0.09	0.10	0.10	0.09	0.10	0.11	0.12	0.14	0.12			4	0.5	<b>0.02</b>
pH		8.56	7.98	<b>8.21</b>	8.23	8.06	8.12	8.16	8.33	8.29	8.35	8.56	8.26	7.98	8.11	8.09		6.5-8.5	6.5-8.5		<b>0.16</b>
Specific Conductance @ 25 °C.	µmhos	224	179	<b>210</b>	179	215	218	209	211	187	221	211	214	215	220	224					<b>14</b>
Temperature	°C	25.0	3.0	<b>14.4</b>	6.0	3.0	6.0	11.6	13.0	21.5	23.0	25.0	23.0	21.5	12.0	7.2					<b>8.0</b>

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average
6.5	5.3	5.8



Water: TAP  
Year: 2021

Plant Name: **Water Works Park (WWP)**

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

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates			MCL	Sec.Std	RL	STDEV
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
Turbidity	N.T.U.	0.12	0.05	<b>0.08</b>	0.06	0.06	0.05	0.05	0.07	0.09	0.10	0.12	0.09	0.08	0.08	0.05	0.3/95% (1)					<b>0.02</b>	
Total Solids	mg/L	171	90	<b>139</b>	126	141	115	132	130	168	171	155	156	149	137	90		500		10		<b>23</b>	
Total Dissolved Solids	mg/L	142	92	<b>121</b>	137	92	117	117	119	139	125	141	112	142	117	93		500		10		<b>17</b>	
Aluminum	mg/L	0.170	0.014	<b>0.069</b>	0.014	0.021	0.032	0.029	0.045	0.155	0.170	0.118	0.109	0.070	0.042	0.019		0.05-0.2		0.001		<b>0.055</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		0.3		0.1		<b>0.044</b>	
Copper	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		1.3 (AL)		0.001			
Magnesium	mg/L	8.2	5.9	<b>7.4</b>	8.0	5.9	6.1	6.8	7.6	8.1	7.6	7.6	7.5	7.8	8.2	7.3				0.1		<b>0.75</b>	
Calcium	mg/L	28.6	20.5	<b>25.0</b>	23.9	20.5	21.0	23.7	26.0	27.4	25.7	25.5	25.4	27.0	28.6	25.3				0.1		<b>2.4</b>	
Sodium	mg/L	5.5	4.4	<b>5.0</b>	5.2	5.0	4.5	4.4	4.7	5.4	5.4	4.9	4.8	5.0	5.5	4.8		20 (2)		0.1		<b>0.36</b>	
Potassium	mg/L	1.3	0.8	<b>1.0</b>	1.0	0.8	0.8	0.9	1.0	1.0	1.0	0.9	1.0	1.1	1.3	0.9				0.1		<b>0.13</b>	
Manganese	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001			0.05		0.001		
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		0.015 (AL)			0.001		
Zinc	mg/L	0.002	ND	<b>0.001</b>	0.002	0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002			5		0.001	<b>0.00</b>	
Silica	mg/L	2.6	1.7	<b>2.2</b>	2.2	2.3	2.3	2.3	1.7	2.1	1.9	1.8	2.2	2.4	2.6	2.2				0.4		<b>0.3</b>	
Sulfate	mg/L	25.2	19.7	<b>22.9</b>	22.5	22.9	25.1	22.6	21.5	22.2	19.7	24.5	23.4	21.6	23.4	25.2						<b>1.6</b>	
Chloride	mg/L	11.9	8.4	<b>10.1</b>	8.5	11.9	11.4	9.4	9.4	10.5	10.4	9.9	8.4	9.9	11.0	10.5		250		5		<b>1.1</b>	
Phosphorus	mg/L	0.51	0.36	<b>0.42</b>	0.38	0.40	0.40	0.40	0.43	0.36	0.40	0.46	0.44	0.51	0.44	0.41				0.05		<b>0.04</b>	
Free Carbon Dioxide	mg/L	9.2	5.7	<b>7.6</b>	5.7	7.6	8.3	7.5	7.4	7.0	6.4	8.0	7.5	7.4	9.2	8.8						<b>1.0</b>	
Total Hardness (3), (4), (5)	mg/L	110	94	<b>101</b>	96	110	107	98	100	102	96	103	104	98	94	98						<b>5</b>	
Total Alkalinity (3)	mg/L	80	70	<b>73</b>	70	76	74	70	76	72	72	70	70	72	80	70						<b>3</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0						<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	80	70	<b>73</b>	70	76	74	70	76	72	72	70	70	72	80	70						<b>3</b>	
Non-Carbonate Hardness (3)	mg/L	34	14	<b>28</b>	26	34	33	28	24	30	24	33	34	26	14	28						<b>6</b>	
Chemical Oxygen Demand	mg/L	5.8	ND	<b>2.9</b>	< 2	3.0	5.8	5.0	2.9	2.4	3.4	4.2	< 2	5.6	< 2	2.6				2		<b>1.3</b>	
Dissolved Oxygen	mg/L	16.4	9.7	<b>12.9</b>	14.6	15.6	13.2	13.4	12.7	11.5	9.7	16.4	10.5	11.3	12.3	13.3						<b>2.0</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				1		0.1	
Nitrate Nitrogen	mg/L	0.44	0.22	<b>0.33</b>	0.38	0.33	0.44	0.33	0.32	0.34	0.32	0.22	0.25	0.33	0.43	0.26			10	10	0.1	<b>0.07</b>	
Fluoride	mg/L	0.84	0.45	<b>0.63</b>	0.52	0.45	0.58	0.55	0.69	0.72	0.66	0.60	0.84	0.82	0.63	0.53			4		0.5	<b>0.12</b>	
pH		7.39	7.20	<b>7.29</b>	7.39	7.30	7.25	7.27	7.31	7.31	7.35	7.24	7.27	7.29	7.24	7.20						<b>0.05</b>	
Specific Conductance @ 25 °C.	µmhos	232	182	<b>216</b>	184	222	232	222	216	182	229	218	221	223	227	222						<b>16</b>	
Temperature	°C	23.5	2.5	<b>13.6</b>	5.0	2.5	7.0	11.0	12.0	20.5	21.5	23.5	21.9	20.0	10.0	8.0						<b>7.5</b>	

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average
6.4	5.5	5.8

GPG



Water: TAP  
Year: 2021

Plant Name: **Northeast (NE)**

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

**Yearly Summary**

**Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates					
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV		
Turbidity	N.T.U.	1.90	0.04	<b>0.30</b>	1.20	0.08	0.06	0.04	1.90	0.08	0.06	0.07	0.04	0.04	0.04	0.04	0.04	0.3/95% (1)			<b>0.60</b>	
Total Solids	mg/L	178	93	<b>137</b>	136	114	121	149	135	178	158	127	158	153	125	93		500	10		<b>23</b>	
Total Dissolved Solids	mg/L	149	57	<b>121</b>	131	141	112	57	125	137	133	142	114	149	125	84		500	10		<b>27</b>	
Aluminum	mg/L	1.470	0.018	<b>0.155</b>	0.096	0.043	0.023	0.026	0.027	0.028	0.029	1.470	0.036	0.028	0.039	0.018		0.05-0.2	0.001		<b>0.415</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		0.3	0.1		<b>0.040</b>	
Copper	mg/L	0.009	ND	<b>0.003</b>	0.002	0.002	0.002	< 0.001	0.002	0.003	0.003	0.009	0.002	0.003	0.003	0.002		1.3 (AL)		0.001	<b>0.002</b>	
Magnesium	mg/L	8.1	6.1	<b>7.4</b>	7.2	6.3	6.1	7.0	7.7	8.0	7.9	7.9	7.6	7.8	8.1	7.5				0.1	<b>0.65</b>	
Calcium	mg/L	28.5	21.4	<b>25.4</b>	24.4	21.6	21.4	24.2	26.0	26.8	26.6	26.4	25.8	26.9	28.5	25.9				0.1	<b>2.1</b>	
Sodium	mg/L	7.0	4.5	<b>5.2</b>	4.7	5.3	4.8	4.5	4.8	5.3	5.6	7.0	4.8	5.2	5.5	5.0		20 (2)	0.1		<b>0.67</b>	
Potassium	mg/L	1.2	0.8	<b>1.0</b>	0.9	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.0				0.1	<b>0.11</b>	
Manganese	mg/L	0.005	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.005	< 0.001	< 0.001	< 0.001	< 0.001		0.05	0.001			
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		0.015 (AL)		0.001		
Zinc	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		5	0.001			
Silica	mg/L	2.9	1.8	<b>2.2</b>	2.2	2.9	2.3	2.2	1.9	2.0	1.8	1.8	2.1	2.3	2.5	2.2				0.4	<b>0.3</b>	
Sulfate	mg/L	28.1	21.9	<b>24.7</b>	25.5	25.7	27.8	24.9	23.4	23.3	21.9	23.9	24.1	22.1	26.0	28.1					<b>2.0</b>	
Chloride	mg/L	11.9	9.2	<b>10.4</b>	9.4	11.9	11.9	9.4	9.6	10.5	10.6	10.4	9.9	9.9	11.5	9.2		250	5		<b>1.0</b>	
Phosphorus	mg/L	0.51	0.33	<b>0.39</b>	0.50	0.37	0.35	0.44	0.37	0.38	0.34	0.37	0.35	0.33	0.51	0.36				0.05	<b>0.06</b>	
Free Carbon Dioxide	mg/L	11.0	6.4	<b>8.8</b>	7.8	9.1	9.4	9.6	7.2	8.5	7.6	6.4	9.6	8.7	10.7	11.0					<b>1.4</b>	
Total Hardness (3), (4), (5)	mg/L	108	86	<b>99</b>	96	104	108	100	100	100	92	104	102	96	94	86					<b>6</b>	
Total Alkalinity (3)	mg/L	74	66	<b>71</b>	68	72	73	68	70	72	73	70	71	74	72	66					<b>2</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0					<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	74	66	<b>71</b>	68	72	73	68	70	72	73	70	71	74	72	66					<b>2</b>	
Non-Carbonate Hardness (3)	mg/L	35	19	<b>28</b>	28	32	35	32	30	28	19	34	31	22	22	20					<b>6</b>	
Chemical Oxygen Demand	mg/L	5.5	ND	<b>1.9</b>	2.0	2.3	< 2	< 2	< 2	2.1	2.3	2.4	< 2	3.2	5.5	3.4				2	<b>1.2</b>	
Dissolved Oxygen	mg/L	12.3	8.7	<b>10.4</b>	11.8	11.4	11.5	11.9	10.9	8.8	8.7	8.9	8.8	8.9	10.8	12.3					<b>1.4</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		1		0.1		
Nitrate Nitrogen	mg/L	0.43	0.24	<b>0.32</b>	0.32	0.32	0.38	0.33	0.31	0.32	0.31	0.24	0.25	0.32	0.43	0.32		10	10	0.1	<b>0.05</b>	
Fluoride	mg/L	0.72	0.44	<b>0.57</b>	0.53	0.45	0.47	0.44	0.72	0.64	0.65	0.62	0.66	0.68	0.51	0.44		4		0.5	<b>0.11</b>	
pH		7.34	7.08	<b>7.21</b>	7.24	7.20	7.19	7.15	7.29	7.23	7.28	7.34	7.17	7.23	7.13	7.08		6.5-8.5	6.5-8.5			<b>0.07</b>
Specific Conductance @ 25 °C.	µmhos	276	190	<b>227</b>	190	227	242	228	220	203	276	222	224	229	236	229					<b>21</b>	
Temperature	°C	25.4	9.3	<b>16.6</b>	13.4	11.9	15.1	10.6	10.6	21.7	22.9	25.4	23.4	20.0	14.7	9.3					<b>5.8</b>	

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average
6.3	5.0	5.7



Water: TAP  
Year: 2021

Plant Name: **Springwells (SPW)**

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

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**

Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates			STDEV	
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL		
Turbidity	N.T.U.	0.12	0.03	<b>0.07</b>	0.12	AE	0.10	0.04	0.03	0.04	0.11	0.05	0.03	0.11	0.03	0.07	0.3/95% (1)			<b>0.04</b>	
Total Solids	mg/L	174	94	<b>135</b>	118	135	112	154	108	174	146	133	150	152	139	94		500	10	<b>23</b>	
Total Dissolved Solids	mg/L	146	75	<b>120</b>	134	75	110	101	113	144	141	143	117	146	133	83		500	10	<b>24</b>	
Aluminum	mg/L	0.082	0.012	<b>0.037</b>	0.034	0.018	0.020	0.012	0.016	0.070	0.057	0.082	0.063	0.033	0.016	0.020		0.05-0.2	0.001	<b>0.025</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		0.3	0.1	<b>0.039</b>	
Copper	mg/L	0.003	ND	<b>0.000</b>	< 0.001	0.003	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	1.3 (AL)		0.001	<b>0.001</b>	
Magnesium	mg/L	8.3	6.1	<b>7.3</b>	7.6	6.2	6.1	6.9	7.3	7.8	7.6	7.5	7.6	7.7	8.3	7.2			0.1	<b>0.65</b>	
Calcium	mg/L	29.1	21.3	<b>25.1</b>	25.5	21.6	21.3	24.1	25.0	26.3	25.7	24.7	26.0	26.7	29.1	25.1			0.1	<b>2.1</b>	
Sodium	mg/L	8.4	4.4	<b>5.3</b>	4.9	5.3	4.5	4.4	4.6	5.3	5.3	8.4	5.5	5.1	5.5	4.7		20 (2)	0.1	<b>1.05</b>	
Potassium	mg/L	1.3	0.8	<b>1.0</b>	1.0	0.8	0.8	0.9	0.9	1.0	1.0	0.9	1.0	1.1	1.3	0.9			0.1	<b>0.12</b>	
Manganese	mg/L	0.004	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.004	< 0.001		0.05	0.001		
Lead	mg/L	ND	ND	<b>0.000</b>	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		0.015 (AL)		0.001	
Zinc	mg/L	0.001	ND	<b>0.000</b>	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001		5	0.001		
Silica	mg/L	2.8	1.8	<b>2.2</b>	2.1	2.8	2.3	2.3	1.8	2.1	1.8	1.8	2.1	2.3	2.6	2.2			0.4	<b>0.3</b>	
Sulfate	mg/L	32.0	22.6	<b>25.9</b>	25.5	26.3	28.1	27.3	24.0	24.8	22.6	24.5	23.5	24.8	27.0	32.0				<b>2.5</b>	
Chloride	mg/L	12.9	8.9	<b>10.4</b>	9.7	12.9	11.6	9.4	9.9	10.5	10.9	10.4	8.9	9.9	11.5	9.0		250	5	<b>1.2</b>	
Phosphorus	mg/L	0.67	0.37	<b>0.50</b>	0.67	0.51	0.40	0.43	0.62	0.37	0.52	0.41	0.44	0.55	0.48	0.54			0.05	<b>0.09</b>	
Free Carbon Dioxide	mg/L	12.1	8.8	<b>10.2</b>	8.8	AE	12.1	11.5	10.5	11.6	9.4	9.5	10.4	9.7	9.3	9.3				<b>1.1</b>	
Total Hardness (3), (4), (5)	mg/L	106	82	<b>99</b>	98	106	106	96	98	102	98	104	103	98	94	82				<b>7</b>	
Total Alkalinity (3)	mg/L	76	64	<b>70</b>	68	72	71	76	68	70	68	69	70	72	74	64				<b>3</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	76	64	<b>70</b>	68	72	71	76	68	70	68	69	70	72	74	64				<b>3</b>	
Non-Carbonate Hardness (3)	mg/L	35	18	<b>29</b>	30	34	35	20	30	32	30	35	33	26	20	18				<b>6</b>	
Chemical Oxygen Demand	mg/L	3.3	ND	<b>1.5</b>	2.0	2.3	2.6	< 2	< 2	2.1	3.0	< 2	< 2	< 2	3.3	2.6			2	<b>0.5</b>	
Dissolved Oxygen	mg/L	13.4	8.9	<b>10.9</b>	13.4	12.3	11.4	12.1	12.4	9.1	8.9	9.7	9.0	10.0	11.1	11.9				<b>1.5</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		1	0.1		
Nitrate Nitrogen	mg/L	0.45	0.23	<b>0.32</b>	0.32	0.36	0.39	0.34	0.31	0.31	0.31	0.23	0.24	0.34	0.45	0.31		10	10	0.1	<b>0.06</b>
Fluoride	mg/L	0.71	0.38	<b>0.55</b>	0.53	0.38	0.45	0.52	0.56	0.71	0.65	0.61	0.68	0.64	0.48	0.39		4	0.5		<b>0.11</b>
pH		7.20	7.07	<b>6.54</b>	7.19	IN	7.07	7.12	7.11	7.08	7.16	7.16	7.13	7.17	7.20	7.14		6.5-8.5	6.5-8.5		<b>0.04</b>
Specific Conductance @ 25 °C.	µmhos	238	191	<b>224</b>	191	231	238	228	223	205	233	223	225	230	233	228					<b>13</b>
Temperature	°C	24.3	3.7	<b>14.5</b>	15.0	3.7	6.6	10.3	10.0	22.0	22.0	24.3	22.0	21.0	12.0	5.3					<b>7.5</b>

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 (ppm)	(4) By Titration
AL: Action Level	(5) Tap Water Hardness in Grains per Gallon multiply value by 0.058 (Grains/Gallon)/(mg/L) -->
RL: Reporting Limit	(6) Reported results are below the low calibration standard but above the instrument detection limit.
< : Less than	NA = Not available
AE: Analytical Error	ND = Not detected above the reporting limit
IN: Invalid Sample	

Maximum	Minimum	Average
6.1	4.8	5.7





Water: TAP  
Year: 2021

Plant Name: **Detroit (WWP-SPW-NE-SW)**

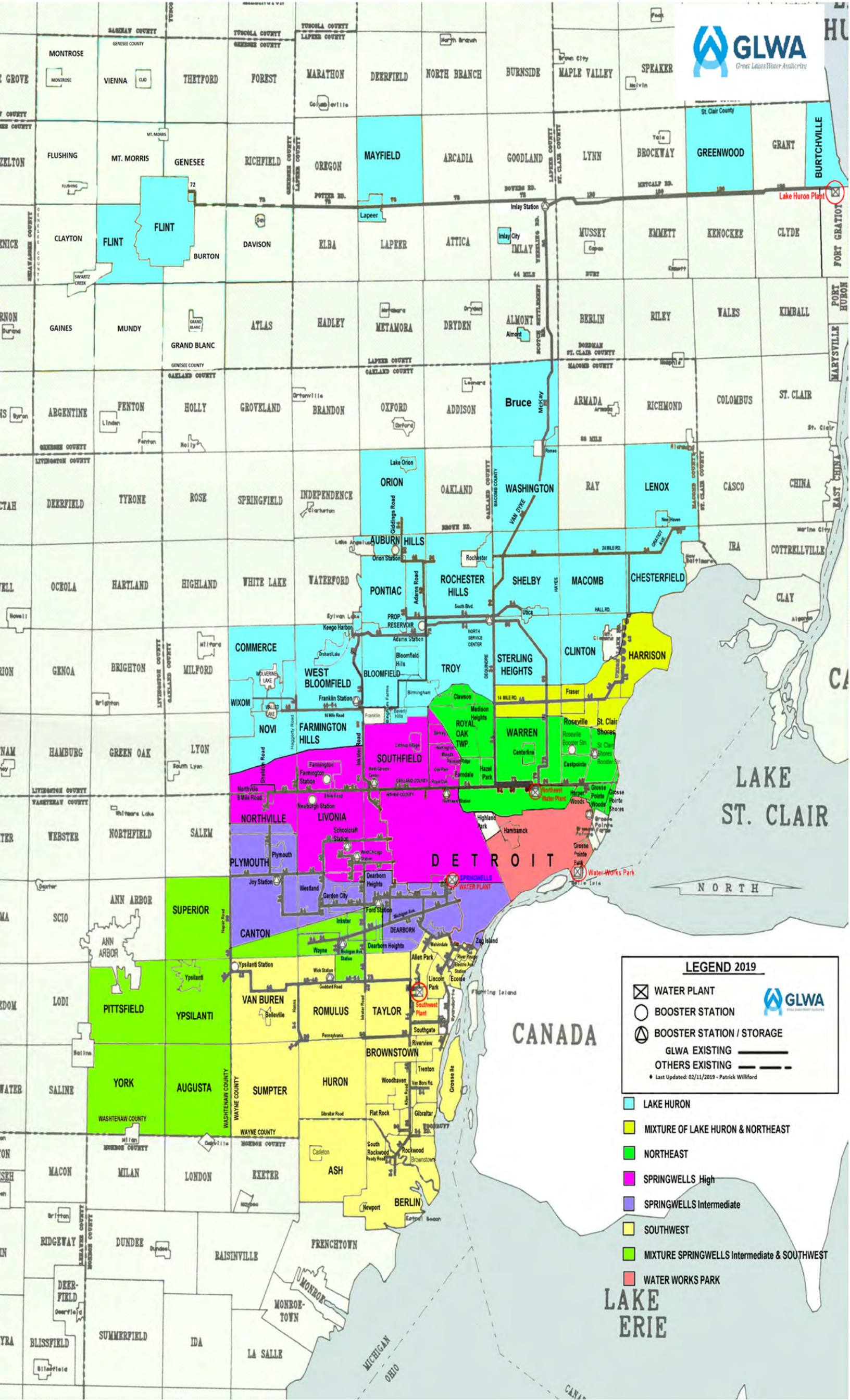
WATER OPERATING SERVICES  
WATER QUALITY  
10100 EAST JEFFERSON AVENUE  
DETROIT, MICHIGAN 48214  
PHONE: 313-926-8102 / 313-926-8127

**Yearly Summary** **Monthly Mineral Analyses Annual Averages**






Parameter	Units	Max.	Min.	Avg.	01/12/2021	02/17/2021	03/16/2021	04/13/2021	05/11/2021	06/15/2021	07/12/2021	08/09/2021	09/13/2021	10/11/2021	11/08/2021	12/14/2021	← Sample Dates				
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	MCL	Sec.Std	RL	STDEV	
Turbidity	N.T.U.	1.90	0.03	<b>0.13</b>	0.37	0.05	0.07	0.06	0.52	0.11	0.08	0.08	0.07	0.09	0.04	0.05	0.3/95% (1)			<b>0.15</b>	
Total Solids	mg/L	178	90	<b>136</b>	124	130	116	143	122	173	150	141	153	152	136	93		500	10	<b>21</b>	
Total Dissolved Solids	mg/L	150	57	<b>122</b>	128	114	103	97	124	142	132	143	112	145	127	91		500	10	<b>18</b>	
Aluminum	mg/L	1.470	0.012	<b>0.077</b>	0.041	0.028	0.027	0.023	0.030	0.087	0.093	0.434	0.071	0.047	0.033	0.014		0.05-0.2	0.001	<b>0.115</b>	
Iron	mg/L	0.3	0.1	<b>0.2</b>	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2		0.3	0.1	<b>0.036</b>	
Copper	mg/L	0.009	ND	<b>0.001</b>	0.000	0.001	0.001	ND	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001		1.3 (AL)	0.001	<b>0.001</b>	
Magnesium	mg/L	8.3	5.9	<b>7.4</b>	7.6	6.2	6.1	6.9	7.7	8.1	7.8	7.7	7.6	7.8	8.2	7.4			0.1	<b>0.69</b>	
Calcium	mg/L	29.9	20.5	<b>25.4</b>	25.0	21.5	21.1	24.0	26.6	27.1	25.9	25.5	25.9	27.1	29.0	25.9			0.1	<b>2.3</b>	
Sodium	mg/L	8.4	4.1	<b>5.2</b>	5.0	5.1	4.5	4.4	5.1	5.3	5.4	6.4	5.2	5.1	5.5	4.9		20 (2)	0.1	<b>0.51</b>	
Potassium	mg/L	1.3	0.8	<b>1.0</b>	1.0	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.3	1.0			0.1	<b>0.12</b>	
Manganese	mg/L	0.005	ND	<b>0.000</b>	ND	ND	ND	ND	ND	ND	ND	0.001	ND	0.000	0.001	0.000		0.05	0.001	<b>0.000</b>	
Lead	mg/L	ND	ND	<b>0.000</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.015 (AL)	0.001	<b>0.001</b>	
Zinc	mg/L	0.002	ND	<b>0.000</b>	0.001	0.000	0.000	0.000	ND	ND	ND	ND	ND	ND	ND	0.001		5	0.001	<b>0.00</b>	
Silica	mg/L	2.9	1.3	<b>2.2</b>	2.2	2.6	2.3	2.3	1.7	2.0	1.8	1.8	2.1	2.3	2.6	2.3			0.4	<b>0.3</b>	
Sulfate	mg/L	32.0	19.7	<b>24.5</b>	24.1	24.4	26.0	24.3	23.4	23.3	21.2	25.6	23.9	22.8	25.4	29.2				<b>2.0</b>	
Chloride	mg/L	13.5	8.4	<b>10.4</b>	9.4	12.0	11.3	9.4	10.3	10.4	10.7	10.4	9.3	10.0	11.2	10.6		250	5	<b>0.8</b>	
Phosphorus	mg/L	0.67	0.30	<b>0.42</b>	0.50	0.40	0.38	0.41	0.46	0.36	0.39	0.41	0.39	0.44	0.45	0.43			0.05	<b>0.04</b>	
Free Carbon Dioxide	mg/L	12.1	0.7	<b>8.3</b>	7.2	5.7	9.2	8.8	9.0	7.0	7.3	8.4	8.7	8.3	8.8	9.6				<b>1.1</b>	
Total Hardness (3), (4), (5)	mg/L	110	82	<b>100</b>	98	107	106	98	102	101	96	104	103	97	95	92				<b>5</b>	
Total Alkalinity (3)	mg/L	80	64	<b>71</b>	70	74	73	72	73	73	71	69	70	73	76	66				<b>3</b>	
Carbonate Alkalinity (3)	mg/L	0	0	<b>0</b>	0	0	0	0	0	0	0	0	0	0	0	0				<b>0</b>	
Bi-Carbonate Alkalinity (3)	mg/L	80	64	<b>71</b>	69	74	73	71	72	72	71	68	70	72	75	66				<b>3</b>	
Non-Carbonate Hardness (3)	mg/L	40	14	<b>28</b>	28	33	33	27	29	29	24	36	33	25	19	26				<b>5</b>	
Chemical Oxygen Demand	mg/L	5.8	ND	<b>1.9</b>	1.0	1.9	2.8	1.2	0.7	2.4	3.1	1.6	ND	2.2	2.2	3.1			2	<b>0.8</b>	
Dissolved Oxygen	mg/L	16.4	7.9	<b>11.1</b>	13.0	12.9	11.9	12.2	11.6	9.5	8.8	10.9	9.2	9.7	11.1	12.2				<b>1.5</b>	
Nitrite Nitrogen	mg/L	ND	ND	<b>0.0</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		1	0.1		
Nitrate Nitrogen	mg/L	0.55	0.21	<b>0.33</b>	0.36	0.33	0.38	0.34	0.36	0.33	0.31	0.25	0.24	0.34	0.47	0.31		10	10	0.1	<b>0.06</b>
Fluoride	mg/L	0.84	0.17	<b>0.58</b>	0.51	0.44	0.52	0.52	0.54	0.67	0.68	0.62	0.73	0.71	0.55	0.48		4	0.5		<b>0.10</b>
pH		8.30	7.07	<b>7.10</b>	7.29	5.47	7.21	7.22	7.22	7.48	7.30	7.22	7.21	7.24	7.24	7.14		6.5-8.5	6.5-8.5		<b>0.52</b>
Specific Conductance @ 25 °C.	µmhos	276	182	<b>223</b>	190	226	235	227	225	197	242	223	223	228	231	228					<b>15</b>
Temperature	°C	25.4	1.8	<b>14.5</b>	9.9	5.0	8.5	10.6	10.8	21.2	22.1	24.3	22.3	20.3	12.1	7.4					<b>6.9</b>

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Maximum	Minimum	Average	
6.4	4.8	5.8	GPG











**LEGEND 2019**

-  WATER PLANT
-  BOOSTER STATION
-  BOOSTER STATION / STORAGE
-  GLWA EXISTING
-  OTHERS EXISTING

GLWA  
Great Lakes Water Authority

★ Last Updated: 02/11/2019 - Patrick Williford

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

Lake Huron Plant

LAKE ST. CLAIR

CANADA

LAKE ERIE

MICHIGAN

OHIO

NORTH