



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

**MONTHLY OPERATION REPORT - CLASS D WATER TREATMENT PLANT**

Issued under authority of 1976 PA 399 and the Administrative Rules, as amended. Administrative Rule R 325.11512 says in part, "A supplier of water where treatment is employed shall prepare an operation report on a form provided by the department for each month of operation." Failure to submit this form is a violation of the Act and may subject the water supply to enforcement penalties.

<b>Water Supply Information</b>		
City of Morenci		004490
Supply Name		WSSN
Paul D. Seegert (Temporary-OIC)	D-3, S-3	Apr
Operator In Charge (OIC)	System Classification	Month
F-1, S-2	Lenawee	2020
Certification Level of OIC	County	Year

<b>Distribution Chlorine Residual Monitoring</b> (Sampling Conducted per DBPR Monitoring Plan)	
Number of chlorine residual measurements taken during the month:	30 - Various Distribution Sites
Number of chlorine residual measurements that exceeded 4 mg/L:	0
Monthly average "free" chlorine residual:	0.98

<b>Comments</b>
Plant tap (which is N/A) residuals are take at the first hydrant downstream from the iron removal water treatment plant (approximately 300' downstream of the IRP filters).

<b>Certification</b>	
Paul D. Seegert (Temporary OIC)	
Name and Title of Authorized Agent	
<i>Paul D. Seegert</i>	5/6/2020
Signature	Date Submitted

<b>Send Completed Report To:</b>	<b>Staff and Contact Information</b>	
Department of Environmental Quality (DEQ)	Taryn Simon, EQA	517-257-7465
Office of Drinking Water and Municipal Assistance	Caitlin Bates, District Engineer;	517-262-6795
301 East Louis Glick Highway	Pat Brennan, District Sup'r;	517-581-2769
Jackson, Michigan, 49201	Fax;	517-780-7855
Or submit via email to	PEAS Hotline;	1-800-292-4706
<a href="mailto:EGLE-DWEH-Jackson@michigan.gov">EGLE-DWEH-Jackson@michigan.gov</a>		

Name of Supply

WSSN

Day of the month	Raw Pumpage in Million of Gallons per Day		Raw Pumpage Daily Total MGD	Raw Water To Iron Removal Plant MG	Raw Water To Iron Removal Plant Lbs	Comments
	Well 1	Well 2				
1	0.103	0.075	0.178	0.178	1.485	
2	0.126	0.134	0.260	0.260	2.168	
3	0.096	0.073	0.169	0.169	1.409	
4	0.102	0.075	0.177	0.177	1.476	
5	0.111	0.076	0.187	0.187	1.560	
6	0.186	0.095	0.281	0.281	2.344	
7	0.099	0.076	0.175	0.175	1.460	
8	0.106	0.078	0.184	0.184	1.535	
9	0.209	0.152	0.361	0.361	3.011	
10	0.018	0.055	0.073	0.073	0.609	
11	0.095	0.072	0.167	0.167	1.393	
12	0.094	0.073	0.167	0.167	1.393	
13	0.094	0.071	0.165	0.165	1.376	
14	0.097	0.072	0.169	0.169	1.409	
15	0.101	0.073	0.174	0.174	1.451	
16	0.101	0.072	0.173	0.173	1.443	
17	0.101	0.072	0.173	0.173	1.443	
18	0.104	0.073	0.177	0.177	1.476	
19	0.104	0.073	0.177	0.177	1.476	
20	0.150	0.037	0.187	0.187	1.560	
21	0.083	0.113	0.196	0.196	1.635	
22	0.084	0.049	0.133	0.133	1.109	
23	0.085	0.084	0.169	0.169	1.409	
24	0.096	0.084	0.180	0.180	1.501	
25	0.078	0.085	0.163	0.163	1.359	
26	0.079	0.086	0.165	0.165	1.376	
27	0.079	0.084	0.163	0.163	1.359	
28	0.079	0.086	0.165	0.165	1.376	
29	0.068	0.089	0.157	0.157	1.309	
30	0.031	0.121	0.152	0.152	1.268	
31			0.000	0.000	0.000	
Total	2.959	2.458	5.417	5.417	45.178	
Avg	0.099	0.082	0.181	0.181	1.506	
Max	0.209	0.152	0.361	0.361	3.011	
Min	0.018	0.037	0.055	0.055	0.459	

Day of the month	Water in Millions of Gallons				Head Loss Thru Filter ft/psi	Oxidant/Chlorine		Plant Tap/Hydrant Chlorine Residual		IRP Filter Chlorine Residual		Plant Tap Analysis	
	Raw Water To Plant	Filter Backwash To WWTP	Total Water To System	Total Million Pounds		Cl <sub>2</sub> Applied Pounds	Cl <sub>2</sub> Applied mg/L	Free	Total	Free	Total	Iron as Fe mg/L	Manganese as Mn mg/L
1	0.178		0.178	1.485		6.0	4.04			0.18	0.28		
2	0.260		0.260	2.168		11.0	5.07			0.10	0.27		
3	0.169		0.169	1.409		7.0	4.97			0.03	0.50		
4	0.177		0.177	1.476		7.0	4.74			0.38	0.51		
5	0.187		0.187	1.560		8.0	5.13			0.27	0.37		
6	0.281		0.281	2.344		11.0	4.69			0.16	0.29		
7	0.175	0.040	0.135	1.460		6.0	4.11			0.40	0.44		
8	0.184		0.184	1.535		6.0	3.91			0.25	0.29		
9	0.361		0.361	3.011		14.0	4.65			0.10	0.27		
10	0.073		0.073	0.609		3.0	4.93			0.40	0.46		
11	0.167		0.167	1.393		6.0	4.31			0.03	0.35		
12	0.167		0.167	1.393		7.0	5.03			0.11	0.50		
13	0.165		0.165	1.376		7.0	5.09			0.42	0.50		
14	0.169		0.169	1.409		8.0	5.68			0.43	0.51		
15	0.174	0.040	0.134	1.451		6.0	4.13			0.28	0.46		
16	0.173		0.173	1.443		7.0	4.85			0.06	0.26		
17	0.173		0.173	1.443		8.0	5.54			0.28	0.40		
18	0.177		0.177	1.476		8.0	5.42			0.21	0.32		
19	0.177		0.177	1.476		8.0	5.42			0.42	0.60		
20	0.187		0.187	1.560		7.0	4.49			0.39	0.40		
21	0.196		0.196	1.635		8.0	4.89			0.11	0.22		
22	0.133		0.133	1.109		4.0	3.61			0.74	0.97		
23	0.169	0.040	0.129	1.409		6.0	4.26			0.44	0.48		
24	0.180		0.180	1.501		6.0	4.00			0.08	0.29		
25	0.163		0.163	1.359		7.0	5.15			0.19	0.28		
26	0.165		0.165	1.376		6.0	4.36			0.24	0.50		
27	0.163		0.163	1.359		6.0	4.41			0.19	0.27		
28	0.165		0.165	1.376		6.0	4.36			0.21	0.27		
29	0.157		0.157	1.309		6.0	4.58			0.19	0.26		
30	0.152	0.040	0.112	1.268		6.0	4.73			0.21	0.29		
31													
Total	5.417	0.160	5.257	45.178		212.0	140.55			7.5	11.8		
Avg	0.181	0.040	0.175	1.506		7.1	4.69			0.25	0.39		
Max	0.361	0.040	0.361	3.011		14.0	5.68			0.74	0.97		

Min	0.073	0.040	0.073	0.609		3.0	3.61			0.03	0.22		
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Iron Removal

Name of Supply

WSSN

Day of Month	Conductivity		Temperature		Total - Hardness mg/L		Total - Alkalinity mg/L		Chloride mg/l		Calcium mg/l		Iron mg/l		Manganese mg/L		Sulfate mg/l		pH Analysis		Phosphate mg/l	
	Raw Sample Tap	Plant Tap	Raw Temp°C	Tap Temp°C	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap	Raw Sample Tap	Plant Tap
1																						
2																						
3																						
4																						
5																						
6																						
7		917		18.4		278		271		36.0		79.5					84.4			7.76		
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20		685		14.70		332		280		63.0		76.2					13.7			7.53		
21																						
22																						
23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						
31																						
Total:																						
Average:		801.0		16.6		305.0		275.5		49.5		77.8					49.1			7.65		
Maximum:		917.0		18.4		332.0		280.0		63.0		79.5					84.4			7.76		
Minimum:		685.0		14.7		278.0		271.0		36.0		76.2					13.7			7.53		

Comments: \* Morenci is obtaining quotes for setting up is very own water testing laboratory which should be operational by June 2020.


City of Morenci

004490

Apr 2020

Name of Supply

WSSN

Oxidation & Chlorination

Day of the month	Treated Water		Oxidant / Chlorine		Chlorine Residual mg/L							Comments
	Metered		Avail 99.8% Cl <sub>2</sub> Gas in	Cl <sub>2</sub> Applied	Distribution (DPW)		Distribution System		Distribution System Location	Applied IRP Filters		
	Million Gallons	Million lbs			Free	Total	Free	Total		Free	Total	
			lbs	mg/L								
1	0.178	1.485	6.0	4.04			0.93	1.12	215 E LaGrange	0.18	0.28	
2	0.260	2.168	11.0	5.07			0.95	1.15	215 E LaGrange	0.10	0.27	
3	0.169	1.409	7.0	4.97			0.85	0.99	215 E LaGrange	0.03	0.50	
4	0.177	1.476	7.0	4.74			0.85	1.01	215 E LaGrange	0.38	0.51	
5	0.187	1.560	8.0	5.13			1.11	1.27	215 E LaGrange	0.27	0.37	
6	0.281	2.344	11.0	4.69			1.65	1.97	215 E LaGrange	0.16	0.29	
7	0.175	1.460	6.0	4.11			0.84	0.96	215 E LaGrange	0.40	0.44	
8	0.184	1.535	6.0	3.91			1.13	1.22	215 E LaGrange	0.25	0.29	
9	0.361	3.011	14.0	4.65			0.50	0.56	215 E LaGrange	0.10	0.27	
10	0.073	0.609	3.0	4.93			0.91	0.96	215 E LaGrange	0.40	0.46	
11	0.167	1.393	6.0	4.31			0.68	0.76	215 E LaGrange	0.03	0.35	
12	0.167	1.393	7.0	5.03	1.05	1.17	0.63	0.80	215 E LaGrange	0.11	0.50	
13	0.165	1.376	7.0	5.09	1.26	1.34	0.95	1.07	215 E LaGrange	0.42	0.50	
14	0.169	1.409	8.0	5.68	1.61	1.85	0.62	0.99	215 E LaGrange	0.43	0.51	
15	0.174	1.451	6.0	4.13	0.80	1.72	0.66	0.71	215 E LaGrange	0.28	0.46	
16	0.173	1.443	7.0	4.85	0.65	0.77				0.06	0.26	
17	0.173	1.443	8.0	5.54			1.04	1.26	607 Maple Drive	0.28	0.40	
18	0.177	1.476	8.0	5.42			1.25	1.39	607 Maple Drive	0.21	0.32	
19	0.177	1.476	8.0	5.42			1.16	1.35	607 Maple Drive	0.42	0.60	
20	0.187	1.560	7.0	4.49			1.23	1.48	607 Maple Drive	0.39	0.40	
21	0.196	1.635	8.0	4.89						0.11	0.22	
22	0.133	1.109	4.0	3.61			1.11	1.32	607 Maple Drive	0.74	0.97	
23	0.169	1.409	6.0	4.26			1.09	1.21	607 Maple Drive	0.44	0.48	
24	0.180	1.501	6.0	4.00			0.82	1.19	607 Maple Drive	0.08	0.29	
25	0.163	1.359	7.0	5.15			0.92	1.10	607 Maple Drive	0.19	0.28	
26	0.165	1.376	6.0	4.36			0.94	0.96	607 Maple Drive	0.24	0.50	
27	0.163	1.359	6.0	4.41	0.81	0.96				0.19	0.27	
28	0.165	1.376	6.0	4.36	0.88	0.95				0.21	0.27	
29	0.157	1.309	6.0	4.58	0.81	0.81				0.19	0.26	
30	0.152	1.268	6.0	4.73	0.95	1.02				0.21	0.29	
31												
Total	5.417	45.178	212.0			10.6	22.8	26.8		7.5	11.8	
Avg	0.181	1.506	7.1	4.69	0.98	1.18	0.95	1.12		0.25	0.39	
Max	0.361	3.011	14.0	5.68	1.61	1.85	1.65	1.97		0.74	0.97	
Min	0.055	0.609	3.0	3.61	0.65	0.77	0.50	0.56	Oxidation & Chlorination	0.03	0.22	

City of Morenci

004490

Apr 2020

Name of Supply

WSSN

Month

Year

2	Routine samples required	0	Repeat samples taken	Cl <sub>2</sub> residuals from routine & repeat		
6	Routine samples taken	0	Repeat samples total coliform positive			
0	Routine samples positive	P/A	Analytical Method			
				Average	1.59	1.75
				Maximum	1.83	2.10
				Minumum	1.34	1.39

Distribution System - Routine Samples

Count	Sample Location	Date Collected	Chlorine Residual (mg/L)	
			Free	Total
1	597 West Chestnut Street	04/20/20	1.34	1.39
2	118 Orchard Street	04/20/20	1.83	2.10
3	485 West Main - Well #1 - Raw	04/20/20	N/A	N/A
4	485 West Main - Well #2 - Raw	04/20/20	N/A	N/A
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
19				

Distribution System - Repeat Samples-Contact District if > one Positive

Count	Sample Location	Date Collected	Chlorine Residual (mg/L)	
			Free	Total
1				
2				
3				
4				
5				
6				
7				
8				
9				

Other: Triggered Source Water Samples, entry point (plant tap) ...

Count	Sample Location	Date Collected	Chlorine Residual (mg/L)	
			Free	Total
1				
2				
3				
4				
5				
6				
7				
8				
9				

Bateriological

DRINKING WATER ANALYSIS				DO NOT WRITE IN SHADED AREA (LABORATORY USE ONLY)			
Village of Blissfield W.T.P. Laboratory MDEQ ID#0750 1330 Beamer Rd. Blissfield, MI. 49228 (517) 486-3350							
COMPLETE FOR ALL SAMPLES (Please Print)							
WSSN or Pool ID# 04490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual mg/L 1.34-F 1.39-T	Date Collected 4-20-20		Time Collected 11:54 A		Sample ID# 7550
Sample Collector Name PAUL SEEGERI	Collection Site (street address) 597 WEST CHESTNUT		City/Twp Morenci MI		County LAWANEE		Zip 49256
System/ Owner Name CITY OF MORENCI	Phone Number 517-458-6828		Sampling Point (kitchen, bath, etc.) BATH FAUCET - DPW		REPORT RESULTS TO: (please print)		
Name CITY OF MORENCI							
Address 118 ORCHARD STREET							
City Morenci		State MI	Zip 49256		Signature [Signature]		
Date Rec'd in Lab 4/20/20		Time Rec'd in Lab 14:17		Incubator Temp 14.3 C		Out. 14.3 C	
Analysis Result							
BACTERIOLOGICAL							
Coliform							
MF							
HPC							
E. coli Enumeration							
CHEMICAL							
Chlorine							
Fluoride							
Nitrate							
Comment Necapto N. K. J. A TRUE COPY VILLAGE OF BLISSFIELD WTP							

The analyses performed by the Blissfield Drinking Water Laboratory were conducted using methods approved by the U.S.E.P.A. and other regulatory agencies as appropriate.

DRINKING WATER ANALYSIS				DO NOT WRITE IN SHADED AREA (LABORATORY USE ONLY)			
Village of Blissfield W.T.P. Laboratory MDEQ ID#0750 1330 Beamer Rd. Blissfield, MI. 49228 (517) 486-3350							
COMPLETE FOR ALL SAMPLES (Please Print)							
WSSN or Pool ID# 04490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual mg/L 1.83-F 2.10-T	Date Collected 4-20-20		Time Collected 12:52 PM		Sample ID# 7548
Sample Collector Name PAUL SEEGERI	Collection Site (street address) 118 ORCHARD STREET		City/Twp Morenci MI		County LAWANEE		Zip 49256
System/ Owner Name CITY OF MORENCI	Phone Number 517-458-6828		Sampling Point (kitchen, bath, etc.) BATH FAUCET - CITY HALL		REPORT RESULTS TO: (please print)		
Name CITY OF MORENCI							
Address 118 ORCHARD STREET							
City Morenci		State MI	Zip 49256		Signature Paul Seeger		
Date Rec'd in Lab 4/20/20		Time Rec'd in Lab 14:17		Incubator Temp 14.3 C		Out. 14.3 C	
Analysis Result							
BACTERIOLOGICAL							
Coliform							
MF							
HPC							
E. coli Enumeration							
CHEMICAL							
Chlorine							
Fluoride							
Nitrate							
Comment Necapto N. K. J. A TRUE COPY VILLAGE OF BLISSFIELD WTP							

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DRINKING WATER ANALYSIS				DO NOT WRITE IN SHADED AREA (LABORATORY USE ONLY)			
Village of Blissfield W.T.P. Laboratory MDEQ ID#0750 1330 Beamer Rd. Blissfield, MI. 49228 (517) 486-3350							
COMPLETE FOR ALL SAMPLES (Please Print)							
WSSN or Pool ID# 004490	Chlorinated? Yes <input checked="" type="checkbox"/>	Cl-Residual mg/L	Sample ID# 7547		Comment		
Sample Collector Name PAUL SEEGERI	Date Collected 4-20-20	Time Collected 12:21M	Received in Lab Date: 4/22/20 Time: 14:17		Incubator Time In: 14:20 Out: 14:40		
System/ Owner Name City of Morenci	Collection Site (street address)		Analysis Result		Analyst		
City/Twp Morenci MI	State MI	County Lehiawee	Zip 49256	Analysis Result		Analyst	
Sampling Point (kitchen, bath, etc.) Well #1-RAW	Phone Number 517.258.6828		Analysis Result		Analyst		
REPORT RESULTS TO: (please print)							
Name City of Morenci							
Address 112 ORCHARD STREET							
City Morenci		State MI	Zip 49256	Analysis Result		Analyst	
Signature Paul Segeri		<input type="checkbox"/> PD <input checked="" type="checkbox"/> CH <input type="checkbox"/> PS <input type="checkbox"/> PU <input type="checkbox"/> TX <input type="checkbox"/> FX		Analysis Result		Analyst	
BACTERIOLOGICAL				Analysis Result			
Coliform				Negative			
MP				N. Kurb			
HPC				N. Kurb			
E. coli Enumeration				N. Kurb			
CHEMICAL				Analysis Result			
Chlorine				A TRUE COPY			
Fluoride				VILLAGE OF BLISSFIELD			
Nitrate				WTP			

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DRINKING WATER ANALYSIS				DO NOT WRITE IN SHADED AREA (LABORATORY USE ONLY)			
Village of Blissfield W.T.P. Laboratory MDEQ ID#0750 1330 Beamer Rd. Blissfield, MI. 49228 (517) 486-3350							
COMPLETE FOR ALL SAMPLES (Please Print)							
WSSN or Pool ID# 004490	Chlorinated? Yes <input checked="" type="checkbox"/>	Cl-Residual mg/L	Sample ID# 7549		Comment		
Sample Collector Name PAUL SEEGERI	Date Collected 4-20-20	Time Collected 12:03P	Received in Lab Date: 4/22/20 Time: 14:17		Incubator Time In: 14:20 Out: 14:40		
System/ Owner Name City of Morenci	Collection Site (street address) 485 WEST MAIN ST.		Analysis Result		Analyst		
City/Twp Morenci MI	State MI	County Lehiawee	Zip 49256	Analysis Result		Analyst	
Sampling Point (kitchen, bath, etc.) Well #2-RAW	Phone Number 517.258.6828		Analysis Result		Analyst		
REPORT RESULTS TO: (please print)							
Name City of Morenci							
Address 112 ORCHARD STREET							
City Morenci		State MI	Zip 49256	Analysis Result		Analyst	
Signature Paul Segeri		<input type="checkbox"/> PD <input checked="" type="checkbox"/> CH <input type="checkbox"/> PS <input type="checkbox"/> PU <input type="checkbox"/> TX <input type="checkbox"/> FX		Analysis Result		Analyst	
BACTERIOLOGICAL				Analysis Result			
Coliform				Negative			
MP				N. Kurb			
HPC				N. Kurb			
E. coli Enumeration				N. Kurb			
CHEMICAL				Analysis Result			
Chlorine				A TRUE COPY			
Fluoride				VILLAGE OF BLISSFIELD			
Nitrate				WTP			

The analyses performed by the Blissfield Drinking Water Laboratory were conducted using methods approved by the U.S.E.P.A. and other regulatory agencies as appropriate.