



"One Team, One Town, One Family"

Morenci City Offices

118 Orchard Street

Morenci, MI 49256

(517) 458-6828

City of Morenci Water Test Results

Background

On November 13, 2019, the City of Morenci was notified by EGLE that its water operator's license (individual licensed to manage the water system for the City of Morenci) had lapsed on July 15, 2018 and that the water operator failed to renew his license. In addition, it was found by EGLE that the water operator had failed to take two (2) water samples required by EGLE and submit such by September 30, 2019. A notice was subsequently sent to you informing you of the City of Morenci's plan to fix the issues. The notice referenced that test results would be taken and communicated to you. This notice serves as that communication.

Water Test Results

The City of Morenci outsourced the partial chemistry sample for testing to Paragon Laboratories out of Livonia, Michigan that EGLE required. The test results of the partial chemistry sample are outlined in the analytical results enclosed with this briefer. Results were less than the max qualifier result of concern as established by EGLE.

A guide to read the results is as follows:

Result: Indicates the level detected for the individual parameter. This is referred to the Level Detected on an annual water quality report.

Units: Indicates the type of measurement used for the result of the individual parameter.

Reporting Limit: Indicates the minimum concentration of a contaminant of the individual parameter that would show up in a test.

Result Qualifier: Indicates the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. This is referred to the Action Level on an annual water quality report.

Please note that the bacteriological results from December 2019 are also included with this briefer. Those tests are required to be ran once a month by EGLE of four (4) locations: Well 1, Well 2, Morenci City Offices, and Morenci Department of Public Works (DPW). The bacteriological results indicate if any e coli, colliform, or other bacteria colonies are present in the water. None were detected. If detected, the City of Morenci would immediately release a notice requiring you to boil your water to kill any found bacteria in the water.

For the safety of residents, the City of Morenci is running bacteriological results every two (2) weeks, which is above the requirements of EGLE. Any bad result would immediately be communicated to water customers. Please contact the Morenci City Offices at (517) 458 – 6828 if you have any questions.

www.CityofMorenci.org

MANY TESTS. ONE LABORATORY.



January 3, 2020

Paul Seegert
City of Morenci
118 Orchard Street
Morenci, MI 49256

RE: Workorder: 359214

Dear Paul Seegert:

Paragon Laboratories, Inc. received the samples associated with the workorder listed above for the analyses presented in the following report. The analyses pertain only to the aliquot of sample received.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number below.

Please note that any unused portion of the sample(s) will be discarded 60 days after sample receipt, unless requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact an Account Coordinator at (734) 462-3900.

Sincerely,

Kaitlin E. James
kaitlinj@paragonlaboratories.com

Paragon Laboratories, Inc. is certified by the Michigan DEQ to analyze Drinking Water. (MDEQ Lab No. 9901 Expires 2/25/2020)
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12649 Richfield Ct. Livonia, MI 48150 P 734.462.3900 F 734.462.3911 W <http://www.paragonlaboratories.com>

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SAMPLE SUMMARY

Workorder: 359214 MORENCI-122319

Lab ID	Sample ID	Sample Desc.	Matrix	Date Collected	Date Received	Collector
3592140001	Partial Chemistry	WSSN: 4490, Grab	Drinking Water	12/23/2019 12:20	12/23/2019 12:35	Paul Seegert

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PROJECT SUMMARY

Workorder: 359214 MORENCI-122319

Workorder Comments

General Comments:

Samples were received chilled on natural ice with an average temperature of 3.0°C on December 23, 2019.

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ANALYTICAL RESULTS

Workorder: 359214 MORENCI-122319

Lab ID: 3592140001 Date Received: 12/23/2019 12:35 Matrix: Drinking Water (Potable)
 Sample ID: Partial Chemistry Date Collected: 12/23/2019 12:20
 Sample Desc: WSSN: 4490, Grab PO:

Parameters	Qualifier	Result	Units	Reporting Limit	Dilution Factor	Result Qualifier		Analyzed	By
						Min	Max		
Individual Parameters									
Analysis Desc: EPA 300.0									
Chloride		49	mg/L	0.50	1		250	12/23/2019 14:47	DTM
Fluoride		0.98	mg/L	0.10	1		4	12/23/2019 14:47	DTM
Nitrate Nitrogen, as N (NO3-N)		0.11	mg/L	0.020	1		10	12/23/2019 14:47	DTM
Nitrite Nitrogen, as N (NO2-N)		0.037	mg/L	0.020	1		1	12/23/2019 14:47	DTM
Sulfate		20	mg/L	0.50	1		250	12/23/2019 14:47	DTM
Calculated Parameters									
Analysis Desc: SM 2340 B									
Hardness, Total as CaCO3		210	mg/L	1.0	1			1/3/2020 09:22	MKK
Metals									
Analysis Desc: EPA 200.7									
Iron, Total		ND	mg/L	0.10	1		0.3	1/3/2020 09:22	MKK
Sodium, Total		39	mg/L	0.50	1			1/3/2020 09:22	MKK

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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 Collector Name PAUL SEEGERT		Date Collected 12-13-19		Time Collected 12:00		Sample ID# 7048	
System/ Owner Name City of Morenci		Collection Site (street address) WATER PLANT WELL #1					
City/Twp. Morenci		State MI		County LAWANEE		Zip 49256	
Sampling Point (kitchen, bath, etc.) WELL #1 SAMPLE TAP		Phone Number 517.458.6828					
REPORT RESULTS TO: (please print)							
Name CITY OF MORENCI - MICHAEL SESSIALS							
Address 118 ORCHARD STREET							
City Morenci		State MI		Zip 49256			
Signature Paul D Spjut		<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					
Received in Lab Date: 12-13-19 Time: 13:30		Incubator Time In: 14:30		Sample ID# 7048		Comment	
Analysis Result		BACTERIOLOGICAL Coliform Negative MF HPC 1 c.f.u. E. coli Enumeration CHEMICAL Chlorine Fluoride Nitrate					
				ANALYST N. Kuefer		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.

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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 Collector Name PAUL SEEGERT		Date Collected 12-13-19		Time Collected 12:30P		Sample ID# 7047	
System/ Owner Name MORENCI, CITY OF		Collection Site (street address) WATER PLANT WELL #2					
City/Twp. Morenci		State MI		County LAWANEE		Zip 49256	
Sampling Point (kitchen, bath, etc.) WELL #2 SAMPLE TAP		Phone Number 517.458.6828					
REPORT RESULTS TO: (please print)							
Name CITY OF MORENCI							
Address 118 ORCHARD STREET							
City Morenci		State MI		Zip 49256			
Signature Paul D Spjut		<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					
Received in Lab Date: 12-13-19 Time: 13:30		Incubator Time In: 14:30		Sample ID# 7047		Comment	
Analysis Result		BACTERIOLOGICAL Coliform Negative MF HPC 2 c.f.u. E. coli Enumeration CHEMICAL Chlorine Fluoride Nitrate					
				ANALYST N. Kuefer		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)							
WBSN or Pool ID# 004490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual F-0.76 mg/L T-0.85	Sample ID# 7064	Comment NO COLIFORMS OR E-COLI DETECTED			A TRUE COPY VILLAGE OF BLISSFIELD WTP
Sample Collector Name PAUL SEGERLT	Date Collected 12-16-19	Time Collected 0115P	Sample ID# 14145				
System/ Owner Name CITY OF MOROGUO	Collection Site (street address) 118 ORCHARD - CITY/HALL		Incubator Time In 14.45 Out 14.45	Analyser SM Ham John N			BACTERIOLOGICAL <input checked="" type="radio"/> Neg <input type="radio"/> MF <input checked="" type="radio"/> HPC <input type="radio"/> E. coli Enumeration CHEMICAL Chlorine Fluoride Nitrate
City/Twp. MOROGUO	State MI	County LENAWEE	Zip 49256	Received in Lab 12-16-19 Time 14:15			
Sampling Point (kitchen, bath, etc.) BATH FAUCET	Phone Number 517.458.6828		REPORT RESULTS TO: (please print) Name MICHAEL SESSIONS - CITY OF MOROGUO Address 118 ORCHARD STREET City MOROGUO State MI Zip 49256 Signature [Signature]				
PD <input checked="" type="radio"/> CH <input type="radio"/> PS <input type="radio"/> PU <input type="radio"/> TX <input type="radio"/> FX							

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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)							
WBSN or Pool ID# 004490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual F-0.59 mg/L T-0.78	Sample ID# 7063	Comment NO COLIFORMS OR E-COLI DETECTED			A TRUE COPY VILLAGE OF BLISSFIELD WTP
Sample Collector Name PAUL SEGERLT	Date Collected 12-16-19	Time Collected	Sample ID# 14145				
System/ Owner Name CITY OF MOROGUO	Collection Site (street address) 597 W. CHESTNUT		Incubator Time In 14.45 Out 14.45	Analyser SM Ham John N			BACTERIOLOGICAL <input checked="" type="radio"/> Neg <input type="radio"/> MF <input checked="" type="radio"/> HPC <input type="radio"/> E. coli Enumeration CHEMICAL Chlorine Fluoride Nitrate
City/Twp. MOROGUO	State MI	County LENAWEE	Zip 49256	Received in Lab 12-16-19 Time 14:15			
Sampling Point (kitchen, bath, etc.) BATH FAUCET	Phone Number 517.458.6828		REPORT RESULTS TO: (please print) Name MICHAEL SESSIONS - CITY OF MOROGUO Address 118 ORCHARD STREET City MOROGUO State MI Zip 49256 Signature [Signature]				
PD <input checked="" type="radio"/> CH <input type="radio"/> PS <input type="radio"/> PU <input type="radio"/> TX <input type="radio"/> FX							

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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# 4490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual F-0.68 mg/L T-0.85		Sample ID# 7018	Incubator Time In: 15:30 Out: 15:30	Analyst S. H. Mason	Comment NO COLIFORMS OF E-COLI DETECTED
Sample Collector Name PAUL SEBERT	Date Collected 12-10-2019	Time Collected 13:51					
System/ Owner Name CITY OF MORENOI		Collection Site (street address) 112 ORCHARD STREET				Result NEG	E. coli Enumeration 0 cfu
City/Twp. MORENOI	State MI	County LAWANEE	Zip 49254				
Sampling Point (kitchen, bath, etc.) BATH FAUCET		Phone Number 517. 458. 6028				TRUE COPY VILLAGE OF BLISSFIELD WTP	
REPORT RESULTS TO: (please print)							
Name MICHAEL SESSIONS / CITY OF MORENOI							
Address 112 ORCHARD STREET							
City MORENOI		State MI	Zip 49254		BACTERIOLOGICAL		
Signature Paul D Syant		PD <input checked="" type="radio"/> CH <input type="radio"/> RS <input type="radio"/> PU <input type="radio"/> TK <input type="radio"/> FX <input type="radio"/>		RECEIVED IN LAB DATE: 12-10-19 TIME: 14:50			
				CHEMICAL			
				Chlorine			
				Fluoride			
				Nitrate			

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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# 4490	Chlorinated? <input checked="" type="radio"/> Yes <input type="radio"/> No	Cl-Residual F-0.78 mg/L T-0.89		Sample ID# 7017	Incubator Time In: 15:30 Out: 15:30	Analyst S. H. Mason	Comment NO COLIFORMS OF E-COLI DETECTED
Sample Collector Name PAUL SEBERT	Date Collected 12-10-19	Time Collected 14:15					
System/ Owner Name CITY OF MORENOI		Collection Site (street address) 597 WEST CHESTNUT				Result NEG	E. coli Enumeration 1 cfu
City/Twp. MORENOI	State MI	County LAWANEE	Zip 49254				
Sampling Point (kitchen, bath, etc.) BATH FAUCET		Phone Number 517. 458. 6028				TRUE COPY VILLAGE OF BLISSFIELD WTP	
REPORT RESULTS TO: (please print)							
Name MICHAEL SESSIONS / CITY OF MORENOI							
Address 112 ORCHARD STREET							
City MORENOI		State MI	Zip 49254		BACTERIOLOGICAL		
Signature Paul D Syant		PD <input checked="" type="radio"/> CH <input type="radio"/> RS <input type="radio"/> PU <input type="radio"/> TK <input type="radio"/> FX <input type="radio"/>		RECEIVED IN LAB DATE: 12-10-19 TIME: 14:50			
				CHEMICAL			
				Chlorine			
				Fluoride			
				Nitrate			

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