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Sent in Groups

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200 East Wall Street

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6/18/20 20 lette Benton Harbor Water Department Report of Lead and Copper Testing Results.

At: Address;

Your home's code rpb1; Report Date: June 26, 2020

Thank you for participating in our 2nd group of 60 testing sites for Lead and Copper with Rev Pinkney Help. The samples you returned to us have been analyzed for Our new Corrosion Protection system by our laboratory operators. That was sample bottle #4. The first draw, bottle 1st and the 5th draw sample were sent to the EGLE (MDEQ) Laboratory in Lansing, MI. and the reports have returned back to us. The Action Level for Lead is 15 ppb; the goal level for lead is 0; The Action Level for Copper is 1300 ppb

A O (zero) is considered a Non-Detect of either Lead or Copper.

1 st Draw Lead Result ppb	1 st Draw Copper Result ppb	5 th Draw Lead Result ppb	5 th Draw Copper Result ppb		Action Level for Lead is	15 ppb
1.1	9.4	0	2.5		Action Level for Copper is	1,300 ppb
In House	Testing	For Water	Quality	Parameters		
OPP Residual mg/L Target is set at 1.5 mg/L	Chloride results mg/L	Sulfate results mg/L	Chloride to Sulfate Ratio	A ratio < 1.0 is not corrosive and > 1.0 is Corrosive.		
2.76	29	40	0.73			

OPP is our corrosion treatment it stands for Orthopolyphosphate. It is specific for Lead material and has a recommended rate of 3.0 mg/L. Michigan Water Quality Experts consider OPP as an excellent Lead corrosion inhibitor.

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

To reduce exposure to lead and copper in drinking water:

- Run the water until it becomes cold, approximately 30 seconds to 2 minutes.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap; lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
- Look for alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- Faucets, fittings, and valves purchased before 2014 may contain up to 8 percent lead. Faucets, fittings, and valves purchased after 2014 may contain up to 0.25 percent lead, including those advertised or labeled as "lead-free". These items may be contributing to the lead found in your drinking water.

Additional Information is available on the City Web Site at bhcity.us. You can also visit the Berrien County Health Department's web site at www.bchdmi.org > Lead-Drinking-Water

Any questions you can call or email Mike O'Malley, Water Spt. at (269) 363-0575 and momallev@cityofbentonharbormi.gov Mike is hard to reach, his email is readily available.

City of Benton Harbor

MI 0000 Beritan His bor weter Results to Resident that

20 leth Benton Harbor Water Department Report of Lead and Copper Testing Results.

At: Address;

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1 st Draw Copper Result ppb	5 th Draw Lead Result ppb	5 th Draw Copper Result ppb		Action Level for Lead is	15 ppb
9.4	0	2.5		Action Level for Copper is	1,300 ppb
Testing	For Water	Quality	Parameters		
Chloride results mg/L	Sulfate results mg/L	Chloride to Sulfate Ratio	A ratio < 1.0 is not corrosive and > 1.0 is Corrosive.		
29	40	0.73			
	Result ppb 9.4 Testing Chloride results mg/L	Result ppb 9.4 O Testing For Water Chloride results mg/L Sulfate results mg/L	Result ppb Result ppb Result ppb 2.5 Testing For Water Chloride results mg/L Sulfate results mg/L Chloride to Sulfate Ratio	Result ppb Result ppb Result ppb 2.5 Testing For Water Quality Parameters Chloride results mg/L Sulfate results mg/L Chloride to Sulfate Ratio Sulfate Ratio Corrosive.	Result ppb Result ppb Result ppb Result ppb Result ppb Lead is Action Level for Copper is Testing For Water Quality Parameters Chloride results mg/L Sulfate results mg/L Sulfate Ratio Corrosive.

OPP is our corrosion treatment it stands for Orthopolyphosphate. It is specific for Lead material and has a recommended rate of 3.0 mg/L. Michigan Water Quality Experts consider OPP as an excellent Lead corrosion inhibitor.

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

To reduce exposure to lead and copper in drinking water:

- Run the water until it becomes cold, approximately 30 seconds to 2 minutes.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap; lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
- Look for alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- Faucets, fittings, and valves purchased before 2014 may contain up to 8 percent lead. Faucets, fittings, and valves purchased after 2014 may contain up to 0.25 percent lead, including those advertised or labeled as "lead-free". These items may be contributing to the lead found in your drinking water.

Additional Information is available on the City Web Site at bhcity.us. You can also visit the Berrien County Health Department's web site at www.bchdmi.org > Lead-Drinking-Water

Any questions you can call or email Mike O'Malley, Water Spt. at (269) 363-0575 and momalley@cityofbentonharbormi.gov Mike is hard to reach, his email is readily available.



CONSUMER NOTICE OF LEAD AND COPPER RESULTS IN DRINKING WATER SITE WITH A LEAD SERVICE LINE

Water Supply Name:	Benton Heslas wefer		
County:	Bestien	WSSN:	0600
Sample Location:	Residential Homes 62 of	Date Sampled:	4/28/20 - 6/9/10

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below. Your home is served by a lead service line. This means that the pipe that brings water to your home contains lead. The first liter sample represents the water you are likely to drink when turning on the tap, and the fifth liter sample likely represents the water in the service line.

Contaminant	Action Level	Maximum Contaminant Level Goal	1 st Liter Result	5 th Liter Result
Lead (ppb)	15	0		
Copper (ppb)	1300	1300		

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

ppb: Parts per billion or micrograms per liter.

ND: Not detected.

To reduce exposure to lead and copper in drinking water:

- Run your water before drinking. The more time water has been sitting in your home's pipes, the more lead
 it may contain. Therefore, if your water has not been used for several hours, run the water before using it for
 drinking or cooking. This flushes lead-containing water from the pipes. Additional flushing may be required
 for homes that have been vacant or have a longer service line.
 - If you do not have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.
 - If you do have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.
- Use cold water for drinking, cooking, and preparing baby formula. Do not cook with or drink water from the hot water tap. Lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
- Consider using a filter to reduce lead in drinking water. Read the package to be sure the filter is NSF 53
 certified to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for more information.
- Consider purchasing bottled water. The bottled water standard for lead is 5 ppb.
- Identify older plumbing fixtures that likely contain lead. Older faucets, fittings, and valves sold before 2014 may contain higher levels of lead, even if marked "lead-free." Faucets, fittings, and valves sold after January 2014 are required to meet a more restrictive "lead-free" definition but may still contain up to 0.25 percent lead.
- Clean your aerator. As part of routine maintenance, the aerator should be removed at least every six
 months to rinse out any debris that may include particulate lead.
- Get your child tested. Contact your local health department or healthcare provider to find out how you can
 get your child tested for lead if you are concerned about exposure.

EGLE

<u>Lead</u> can cause serious health and developmental problems. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. Although other sources of lead exposure exist, such as lead paint, and lead contaminated dust, your water supply is contacting you to reduce your risk of exposure to lead in drinking water. If you have questions about other sources of lead exposure, please contact your local health department.

<u>Copper</u> is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

The United States Environmental Protection Agency (U.S. EPA) estimates that 20 percent or more of human exposure to lead may come from drinking water. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's website at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

For more information on copper, visit the United States Center for Disease Control website at www.atsdr.cdc.gov/index.html, or contact your health provider.

For more information regarding your water supply, contact us at:

STATE OF MICHIGAN



DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

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February 13, 2020

VIA EMAIL AND U.S. MAIL

Mr. Ellis Mitchell City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022 WSSN: 00600 County: Berrien Supply: Benton Harbor

Dear Mr. Mitchell:

SUBJECT: Water System Corrosion Treatment

On October 22, 2018, the Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD), issued a letter to the City of Benton Harbor (the City) for a lead action level exceedance (ALE). In response, the City applied for a construction permit for installation of corrosion control treatment, under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). On February 25, 2019, EGLE issued the Act 399 construction permit to the City to address the ALE by means of installing a corrosion control treatment system. The treatment chemical permitted, based on a recommendation by Elhorn Engineering, was Carus 8600 which is comprised of 70% orthophosphate and 30% polyphosphate. The target dose was 1.5 milligrams per liter (mg/L) as orthophosphate, and the City's water operators have consistently reached that treatment goal. This has resulted in a residual of approximately 1.5 mg/L orthophosphate in the distribution system.

A review of the last three lead and copper sampling rounds collected by the City concludes the treatment is not achieving desired results quickly enough. The most recent round of samples was collected approximately eight months after the beginning of corrosion control treatment.

The City met with representatives from EGLE on January 15, 2020, to discuss results from the City's lead and copper sampling as it relates to the City's corrosion control treatment. The purpose of this letter is to provide a summary of that meeting and outline next steps for the City to pursue designation of optimized corrosion control treatment as required by Rule 604f of the administrative rules promulgated under Act 399.

Based on a review of the corrosion control treatment and the last three rounds of tap samples for lead and copper, the City is hereby directed to change its current blended phosphate chemical from the 70%/30% ortho/poly-phosphate to a product with a minimum of 90% orthophosphate. The chemical selected must be ANSI/NSF 60 certified for use in drinking water systems. The City is also hereby directed to adopt a new treatment rate, such that a minimum of 3.0 mg/L orthophosphate (as phosphate) residual is maintained throughout the distribution system. This

Mr. Ellis Mitchell Page 2 February 13, 2020

designation is being made under R325.10604f(3)(d). The reason for this change is to speed up treatment effectiveness. EGLE's intent is to quickly put into place treatment that will more efficiently lower corrosion rates in the distribution system for greater protection of public health. This decision is based on corrosion control treatment studies and analyses of documented analogous treatment systems with other water supplies of similar source water chemistry.

The above phosphate treatment strategy is intended to provide immediate improvement of corrosion protection in the distribution system but, without further study, it is not certain to be the optimum treatment strategy. Therefore, the City is directed to have a third-party consultant submit to the department a corrosion control study proposal following the requirements of Rule 325.10604f(3)(c) of the administrative rules promulgated under Act 399. This study proposal must be submitted to the department within six months following the date that the directed treatment change is completed. The study plan must focus on identifying optimum corrosion control treatment for the City's water system. Reference to analogous water systems alone will not suffice to meet this requirement.

In addition, the permitted corrosion control treatment scheme requires the high service pump suction header valve that is next to High Service Pump 3 be closed. This is to force the flow of all water from the suction well through the meter and corrosion control treatment. At the onsite meeting referenced above, it was indicated that the valve state is unknown. Please immediately verify in writing to the department the valve has been closed according to the permit.

TRANSITION AND TIMELINE

Prior to changing chemicals, the City must obtain approval of the specific chemical selected by requesting revision of the construction permit under Act 399.

Following approval, the transition to a minimum 90% orthophosphate product must occur as soon as possible, but not later than February 28, 2020.

The City must follow these guidelines during transition to the new chemical:

- Blending of the two phosphate products must not occur. The transition should be abrupt.
- 2. Immediately following the transition to the new treatment, gentle flushing of the distribution system will help provide a thorough transition.
- 3. Increased monitoring of the plant tap and distribution sites will verify when the transition has concluded and the directed residual of a minimum 3.0 mg/L orthophosphate as phosphate is achieved.

Mr. Ellis Mitchell Page 3 February 13, 2020

We anticipate and appreciate your cooperation in resolving this matter. If you have any questions regarding this letter, please contact me at 616-307-6736 or OnanB@Michigan.gov; or you can contact Mr. Ernie Sarkipato, Surface Water Treatment Specialist, Engineering Unit, Field Operations Section, DWEHD, at 616-307-0261; SarkipatoE@Michigan.gov; or EGLE-DWEHD, 350 Ottawa Avenue NW, Unit 10, Grand Rapids, Michigan 49506.

Sincerely,

Brandon Onan, Supervisor

Lead & Copper Unit

Community Water Supply Section

Drinking Water and Environmental Health Division

cc: Mr. Mike O'Malley, City of Benton Harbor

Mr. Darold Harlan, Fleis & Vandenbrink

Mr. Todd Luks, Elhorn Engineering

Ms. Nicki Britten, Berrien County Health Department

Mr. Eric Oswald, EGLE

Mr. Mike Bolf, EGLE

Mr. Ernie Sarkipato, EGLE



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



July 15, 2020

WSSN: 00600

County: Berrien

Supply: Benton Harbor

VIA EMAIL AND U.S. MAIL

Mr. Ellis Mitchell City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022

Dear Mr. Mitchell:

SUBJECT: Lead and Copper Monitoring - Action Level (AL) Exceedance

The Benton Harbor community water supply's 90th percentile value exceeded the AL for lead during the most recent round of lead and copper monitoring of drinking water taps from January 1, 2020, through June 30, 2020, as summarized below.

Contaminant	AL	MCLG*	90 th Percentile Value	Number of Sites Above AL	Range of Sample Results	Typical Source of Contaminant
Lead	15 parts per billion (ppb)	0	23	9	0 - 440 ppb	Corrosion of household plumbing systems; Service lines that may contain lead; Erosion of natural deposits
Copper	1.3 parts per million (ppm)	1.3	0.0	0	0 – 0.2 ppm	Corrosion of household plumbing systems; Erosion of natural deposits

^{*}MCLG: Maximum contaminant level goal means the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

An AL exceedance is not a violation, but it triggers other requirements under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). Requirements include water quality parameter (WQP) monitoring, source water monitoring, corrosion control treatment, and public education (PE). Please refer to the "Timetable of Upcoming Requirements" for your specific deadline for each of the following requirements.

Issue a Public Advisory (PA)

An amendment to Act 399 on March 29, 2017, requires a public water supply to issue a PA within three business days to inform all persons served about the lead AL exceedance. It is the intent of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) to work with you to develop the PA materials to ensure it complies with the requirements set forth in Act 399. A template has already been provided to you. Please contact EGLE if you plan to use broadcast media as your delivery method.

Deliver Consumer Notice of Lead and Copper Results

Within 30 days of learning the results, you must provide individual lead and copper tap results to the people who receive water from sites that were sampled even if lead and copper were not detected. You must also send us certification that you met all delivery requirements along with a sample copy of your consumer notice 90 days after the end of the monitoring period. To download the *Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate* in Microsoft Word or PDF format, visit Michigan.gov/LCR.

Distribute PE

Sixty days from the date of this letter or sixty days after the end of the monitoring period that exceeded the AL, whichever is sooner, deliver PE materials to all consumers.

This material is intended to educate consumers about lead health effects, sources of lead, and steps to minimize exposure. Note that the PE material must include information about the following: the exceedance in your water supply, what you are doing to reduce lead levels, lead service lines in your distribution system, and the history of lead levels in your water supply. A template has already been provided to you.

A sample copy of the final PE material along with a PE distribution certification form must be submitted to EGLE no later than ten days after the PE is due. Repeat each year until the lead AL is no longer exceeded.

Conduct WQP Monitoring

Continue collecting one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap), and quarterly from ten locations in the distribution system.

The WQP samples shall be analyzed for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature. Temperature and pH are field tests and should be completed at the time of sample collection.

If you use EGLE's laboratory, order bottles by calling 517-335-8184, or by downloading the form EQP 2301 *Bottle Order Form* from Michigan.gov/EGLELab. Click on Drinking Water. The tests are analyzed from one sample bottle per location. Request the analyses using the following test codes:

Test Code	Cost	Bottle Number	Test Description
CORR	\$51.00	33	Conductivity, Alkalinity, Phosphate, and Calcium
R	\$18.00	32,33	Chloride, Sulfate

Mr. Ellis Mitchell Page 3 July 15, 2020

Conduct Source Water Monitoring

Thank you for completing this requirement on March 16, 2019. You must repeat this sampling every third year until both lead and copper ALs are met during the entire three-year period.

Reduce Corrosion Rates

Minimize lead in the drinking water by reducing corrosion of water pipes and household plumbing that contain lead. This is Benton Harbor's fourth AL exceedance. Benton Harbor has made corrective actions to the corrosion control treatment system per EGLE's direction in a letter dated February 13, 2020. EGLE anticipates this change having a positive impact on the distribution system's corrosion rates and will assess the effectiveness of the current corrosion control treatment based on sequential sampling at homes in the distribution system, corrosion control study results, and future rounds of compliance sampling.

Lead and Copper Monitoring

To show the ALs can be met, continue collecting lead and copper samples from 60 sites between July 1 and December 31, 2020, and again between January 1 and June 30, 2021.

If you need to select new sites, choose the highest Tier sites available within the distribution system, giving Tier 1 sites first priority. Document any changes on your Lead and Copper Sampling Site Plan and submit it to your local district office email address. If you have Tier 1 or Tier 2 sites, i.e. sites with a lead service line, compliance sampling will require that you collect a first-liter and fifth-liter sample from each sampling location.

Within 30 days of learning of results, provide individual lead and copper tap results to people who receive water from sites that were sampled. Even if lead or copper was not detected, all monitoring, reporting, consumer notification, and EGLE certification requirements remain in effect.

Consumer Confidence Report (CCR)

Include this AL exceedance in your CCR, which is due to our office, your customers, and the local health department by July 1, 2021. You may use the table format from the first page of this letter.

Also, because the lead AL was exceeded, include the following health effects language:

Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

What Happens Next?

If you can show that both lead and copper ALs are met in two consecutive six-month periods then many of the requirements outlined in this letter will no longer apply.

Timetable of Upcoming Requirements

Complete By	Requirement	Comments
Within three business days	Distribute a PA.	Distribute a PA to inform all persons served by the water supply of the lead AL exceedance. Distribution of the notice must be in a form and manner designed to fit the specific situation and must be reasonably calculated to reach all persons served by the public water supply.
Right away	Deliver Consumer Notice of Lead and Copper Results to persons served at each site tested within 30 days of knowing the result.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Microsoft Word or PDF format from Michigan.gov/LCR.
Every two weeks	Collect WQP samples.	Collect one set of WQP samples every two weeks from the entry point to the distribution system for pH, temperature, alkalinity, calcium, conductivity, orthophosphate, chloride, and sulfate.
August 29, 2020	Perform PE activities including delivering PE materials to all consumers.	PE required activities are listed in the enclosed template and checklist. Repeat every year until the lead AL is met in the most recent round of sampling.
September 8, 2020	Send EGLE certification of PE compliance along with a sample copy of the materials delivered.	Sample certification enclosed. Required whenever PE required.
Between July 1 and December 31, 2020	Collect samples 60 sites from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due January 10, 2021.
Between July 1 and December 31, 2020	Collect WQP samples.	Collect WQP samples from ten locations in the distribution system quarterly.
September 30, 2020	For the January through June 2020 monitoring, send EGLE certification of consumer notice of lead and copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Microsoft Word or PDF format from Michigan.gov/LCR.
Between January 1 and June 30, 2021	Collect samples 60 sites from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due July 10, 2021.
Between January 1 and June 30, 2021	Collect WQP samples.	Collect WQP samples from ten locations in the distribution system quarterly.

Complete By	Requirement	Comments
March 31, 2021	For the July through December 2021 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from Michigan.gov/LCR.
July 1, 2021	Report the 2020 AL exceedance in the CCR.	Specific lead health effects language must be included.
September 28, 2021	For the January through June 2021 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from Michigan.gov/LCR.
March 31, 2022	Collect one lead and copper sample from each entry point to the distribution system.	Repeat every third year until both ALs are met for the whole three-year period.

We recognize that the Lead and Copper Rule is complex and may be confusing. We will continue to offer assistance in implementing these regulations. If you have any questions, please contact us at BoltJ@Michigan.gov; OnanB@Michigan.gov; or at the phone numbers provided below.

Sincerely,

Jeni Bolt, Environmental Quality Specialist

Lead and Copper Unit

Drinking Water and Environmental

Health Division 517-331-5161

Brandon Onan, Supervisor Lead and Copper Unit

Drinking Water and Environmental

Health Division 616-307-6736

Enclosures (PA Checklist, PE Distribution Checklist, WQP report form, Tier Criteria)

cc/enc: Mr. Mike O'Malley, City of Benton Harbor

Ms. Nicki Britten, Berrien County Health Department

Mr. Nick Margaritis, Berrien County Health Department

Mr. Steve Crider, Michigan Department of Health and Human Services

Mr. Mike Bolf, EGLE

Mr. Ernie Sarkipato, EGLE

Mr. Jeremy Klein, EGLE



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



February 4, 2021

WSSN: 00600

County: Berrien

Supply: Benton Harbor

VIA EMAIL AND U.S. MAIL

Mr. Ellis Mitchell City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022

Dear Mr. Mitchell:

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Copper	1.3 parts per million (ppm)	1.3	0.0	0	0 – 0.2 ppm	Corrosion of household plumbing systems; Erosion of natural deposits

^{*}MCLG: Maximum contaminant level goal means the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

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Mr. Ellis Mitchell Page 2 February 4, 2021

Deliver Consumer Notice of Lead and Copper Results

Thank you for completing this requirement timely.

Distribute PE

Sixty days after the end of the monitoring period that exceeded the AL deliver PE materials to all consumers.

This material is intended to educate consumers about lead health effects, sources of lead, and steps to minimize exposure. Note that the PE material must include information about the following: the exceedance in your water supply, what you are doing to reduce lead levels, lead service lines in your distribution system, and the history of lead levels in your water supply. A template has already been provided to you.

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Continue collecting one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap), and quarterly from ten locations in the distribution system.

The WQP samples shall be analyzed for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature. Temperature and pH are field tests and should be completed at the time of sample collection.

If you use EGLE's laboratory, order bottles by calling 517-335-8184 or by downloading the form EQP 2301 *Bottle Order Form* from Michigan.gov/EGLELab. Click on Drinking Water. The tests are analyzed from one sample bottle per location. Request the analyses using the following test codes:

Test Code	Cost	Bottle Number	Test Description
CORR	\$51.00	33	Conductivity, Alkalinity, Phosphate, and Calcium
R	\$18.00	32,33	Chloride, Sulfate

Conduct Source Water Monitoring

Thank you for completing this requirement on March 16, 2019. You must repeat this sampling every third year until both lead and copper ALs are met during the entire three-year period.

Minimize Corrosion

Minimize lead in the drinking water by reducing corrosion of water pipes and household plumbing that contain lead. This is Benton Harbor's fifth AL exceedance. Benton Harbor has made corrective actions to the corrosion control treatment system per EGLE's

Mr. Ellis Mitchell Page 3 February 4, 2021

direction in a letter dated February 13, 2020. EGLE anticipates this change having a positive impact on the distribution system's corrosion rates and will assess the effectiveness of the current corrosion control treatment based on sequential sampling at homes in the distribution system and future rounds of compliance monitoring.

Lead and Copper Monitoring

To show the ALs can be met, collect a lead and copper sample from 60 sites between January 1 and June 30, 2021, and again between July 1 and December 31, 2021. These sites should be selected from your Lead and Copper Sampling Plan.

If you need to select new sites, choose the highest Tier criteria available within your distribution system, giving Tier 1 sites first priority. Document any changes on your Lead and Copper Sample Site Plan and submit it to your local district office email address. If you have Tier 1 or Tier 2 sites, i.e. sites with a lead service line, compliance sampling will require that you collect a first-liter and fifth-liter sample from each sampling location.

Within 30 days of learning of results, provide individual lead and copper tap results to people who receive water from sites that were sampled. Even if lead or copper was not detected, all monitoring, reporting, consumer notification, and EGLE certification requirements remain in effect.

Consumer Confidence Report (CCR)

Include this AL exceedance in your CCR, which is due to our office, your customers, and the local health department by July 1, 2021. You may use the table format from the first page of this letter.

Also, because the lead AL was exceeded, include the following health effects language:

Infants and children who drink water containing lead could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

What Happens Next?

If you can show that both lead and copper ALs are met in two consecutive six-month periods, then many of the requirements outlined in this letter will no longer apply.

Timetable of Upcoming Requirements

Complete By	Requirement	Comments
Within three business days	Distribute a PA.	Distribute a PA to inform all persons served by the water supply of the lead AL exceedance. Distribution of the notice must be in a form and manner designed to fit the specific situation and must be reasonably calculated to reach all persons served by the public water supply.
Continue	Collect WQP samples (entry point to the distribution system).	Collect one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap).
March 1, 2021	Perform PE activities including delivering PE materials to all consumers.	PE required activities are listed in enclosed template and checklist. Repeat every year until the lead AL is met in the most recent round of sampling.
March 11, 2021	Send EGLE certification of PE compliance along with a sample copy of the materials delivered.	Sample certification enclosed. Required whenever PE required.
Between January 1 and June 30, 2021	Collect samples from 60 sites from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due July 10, 2021.
Between January 1 and June 30, 2021	Collect WQP samples (Distribution system).	Collect one set of WQP samples from 10 locations in the distribution system quarterly. Analyze the samples for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature.
July 1, 2021	Report the 2020 AL exceedances in the CCR.	Specific lead health effects language must be included.
Between July 1 and December 31, 2021	Collect samples from 60 sites from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due January 10, 2022.
Between July 1 and December 31, 2021	Collect WQP samples (Distribution system).	Collect one set of WQP samples from 10 locations in the distribution system quarterly. Analyze the samples for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature.
September 30, 2021	For the January through June 2021 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from Michigan.gov/LCR.
March 31, 2022	For the July through December 2021 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from Michigan.gov/LCR.
March 31, 2022	Collect one lead and copper sample from your entry point to the distribution system, TP001 (Treatment Plant Tap).	Repeat every third year until both ALs are met for the whole three-year period.

Mr. Ellis Mitchell Page 5 February 4, 2021

We recognize that the Lead and Copper Rule is complex and may be confusing. We will continue to offer assistance in implementing these regulations. If you have any questions, please contact us at BoltJ@Michigan.gov; OnanB@Michigan.gov; or at the phone numbers provided below.

Sincerely,

Jeni Bolt, Environmental Quality Specialist Lead and Copper Unit Drinking Water and Environmental

Health Division 517-331-5161

Brandon Onan, Supervisor Lead and Copper Unit Drinking Water and Environmental Health Division 616-307-6736

Enclosures (PA Checklist, PE Distribution Check, WQP report form, Tier Criteria)

cc/enc: Mr. George Regan, F&V Operations

Ms. Nicki Britten, Berrien County Health Department

Mr. Nick Margaritis, Berrien County Health Department

Mr. Steve Crider, Michigan Department of Health and Human Services

Mr. Mike Bolf, EGLE

Mr. Ernie Sarkipato, EGLE

Mr. Matt Sylvester, EGLE

Mr. Jeremy Klein, EGLE

MIO600 Benton Hurbor Lead Copper Report 1st helf 2020

3. WSSN:

0600

EGLE

1. Supply Name:

2. County:

Benton Harbor

Berrien

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A – SUPPLIES WITH LEAD SERVICE LINES

4 ? ses

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules. Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

This	forn	n is for water supplies collecting <u>some</u> or <u>all</u> lead and copper sar LEAD SERVICE LINES. All other supplies should use Fo	nples from sites WITH
Ýés	No		P
Х		Are some or all samples from sites WITH lead service lines? If no sites served by a lead service line, STOP and use Form B.	-
х		Did you prioritize sample collection according to the following: Tier 1 sites must be used unless insufficient Tier 1 sites available. If insufficient Tier 1 sites available, then Tier 2 sites must be used. If insufficient Tier 2 sites, then Tier 3 sites must be used. If no Tier 1, 2, or 3 sites are available, sites must be representative of plumbing materials typically found throughout the water system.	For more information see Instructions item 11 "Tier and Sample Category" at the end of the document.
х	х	Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed):	
	nents:	In order to meet the extra number of samples (60) that EGLE is demanding may have never agreed to sample before. We as a community water supply notes to fill the pool to the extra required.	y, we had to reach out to had to depend upon

11. TAP SAMPLING DATA
Sheet 1 of 3

rpb5	rpb4	- Pood	rpb3	rpb2	rpb1	RP25	RP24	RP23	RP21	RP19	RP17	RP16	RP15	RP14	RP13	RP11	RP10	RP9	RP/	RP6	R R R	RP4	200	RP3	RP2			Location	Sample	
5/6/2020	5/6/2020	070/1/20	5/7/2020	5/6/2020	5/6/2020	4/29/2020	4/28/2020	4/30/2020	4/29/2020	4/28/2020	4/28/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/28/2020	4/29/2020	4/29/2020	4/28/2020	0707/0-1/	4/28/2020	4/30/2020			Sample Date		
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11. TAP SAMPLING DATA
Sheet A of 3

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5/13/2020	5/13/2020	5/13/2020	5/13/2020	5/12/2020	5/13/2020	5/13/2020	5/12/2020	5/12/2020	5/13/2020	5/13/2020	5/13/2020	5/8/2020	5/7/2020	5/5/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/8/2020				Sample Date		_
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11. TAP SAMPLING DATA
Sheet 3 of 3

		Tier	Category	Building	Service Line Very Likely *	Тар Туре	st	1 st Liter Samble	ole e	o _t	5 th Liter Sample
		_	A	Plumbing	Very Likely ≈ known	Kitchen	-	Lifei Odili	la	10	
Sample	Sample Date			Unknown	Likely = lead		Lead	Copper	Lab	Lead	Copper
					Unknown =				Sample		9
					Lead in area		ug/L	ug/L	Number	ug/L	ng/L
RPC 12	5/13/2020		A	Unknown	very Likely	Kitchen	2.2	5	4629484	2.4	
RPC 13	5/12/2020		A		Likely	Kitchen	0	1.1	4629485	0	
RPC 14	5/13/2020		A	Unknown	Unknown very Likely	Kitchen	0	0	4629486	8.3	
RPC 15	5/13/2020		A	Unknown	very Likely	Kitchen	1.4	36	4629487	1.3	2.9
RPC 16	5/13/2020		A		very Likely	Kitchen	44	3.7	4629488	81	1.8
RPC 17	5/13/2020		A		very Likely	Kitchen	6.4	2.9	4629489	4.3	1.5
RPd 1	6/9/2020		A	_	Likely	Kitchen	23	1.8	4651648	2.4	1.3
RPd 2	6/10/2020		A		Likely	Kitchen	3.4	33	4651649	2.9	2.6
RPd 3	6/10/2020		A	Unknown	very Likely	Kitchen	11	45	4651650	3.9	
RPd 4	6/10/2020		A		very Likely	Kitchen	4.4	5.6	4651651	6.6	7.5
RPd 5	6/10/2020		A	Unknown	very Likely	Kitchen	1.4	3.9	4651652	1.6	1.2
RPd 6	6/10/2020		A		Likely	Kitchen	0	2.2	4651653	0	2.1
RPd 7	6/10/2020		1 A	Unknown	Unknown very Likely	Kitchen	17	28	4651654	23	

Memo to File

System: Benton Harbor

WSSN: 00600

Monitoring July-Dec 2020

Period:

Date: 2/23/2021

Topic Sample inclusion for 565 Clay

Notes on the Lead and Copper Report form indicated that the samples collected at 565 Clay did not have 6hrs stagnation time before the sample was collected.

When the system was asked for additional information, the sample instructions sheet for 565 Clay was provided.

On the sample instruction sheet, the black ink indicates that the sample had sufficient stagnation time between 12/3/2020 11pm and 12/4/2020 10am. Notes in red ink indicate that a leaking tub faucet and use of water at 3am make proper stagnation unlikely.

Since there are discrepancies between the notes on the form EGLE is including the sample in the 90th calculation. This does not change the 90th percentile or range of sample results.

The system has been counselled on reducing errors on sample instruction forms. Additionally, when problems arise they should avoid altering the original document and sign and date any changes.

Jeni Bolt

Environmental Quality Specialist
Drinking Water and Environmental Health Division
Michigan Department of Environment, Great Lakes, and

517-331-5161 | bolti@Michigan.gov





WSSN 0600

The City of Benton Harbor and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

Lead and Copper Report 2nd half 2020

-	
1 1000	
I certify under penalty of law that this do	cument and all attachments were prepared under my
	n a system designed to assure that qualified personnel
	tion submitted. Based on my inquiry of the persons or
	persons directly responsible for gathering such
	to the best of my knowledge and belief, true,
	there are significant penalties for submitting false e and imprisonment for knowing violations."
Benton Harbor Representative! Ell	is Mitchell Date: 1/05/2021
Signature: () () () () ()	Date: 103 2021
/	,
F&V Operations Representative: N	1/Δ
Signature: N/A	Date: N/A





9

1. Supply Name:

Benton Harbor

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A - SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

	2. Co	ounty:	Berrien			3. WSS	SN: 0600	
	4. Po	opulation:	9826	5. N	Monitoring Period:	From: 07/01/2020	To: 12/31/2020	_
	6. M	inimum # of	Samples Re	quired:	60	7. # of Samples Tal	ken: 64	
	8. Na	ame of Certi	ied Laborato	огу:	State of Michigan	and Eurofins Eaton A	nalytical	_
	E 001	TEDIA						
		TERIA:						104571
This	form	is for wat LE	er supplies AD SERVIC	collec E LINI	ting <u>some</u> or <u>all</u> ES. All other sup	lead and copper sa plies should use Fo	mples from sites orm B.	VVIII
Yes	No							
\boxtimes		Are some	or all sample	s from s	ites WITH lead sen	vice lines?		
•		If no sites	served by a	lead ser	vice line, STOP and	l use Form B.	For more informa	ation
		Did you pr Tier 1 If insu If insu If no T	ioritize samp sites must be fficient Tier 1 fficient Tier 2 ier 1, 2, or 3	le collect sused used usites av sites, the	ction according to the inless insufficient Tivallable, then Tier 2 then Tier 3 sites must available, sites must be available, sites must be available, sites must be available.	e following: er 1 sites available, sites must be used.	see Instructions "Tier and Sample Category" at the the document.	item 11
		Were the s	same sampli ain (attach a	ng sites additions	used as in the prev il pages if needed);	ious monitoring period Not all previous sites v	? were willing to partic	cipate.
Comr Servi	ce line	e material da	and notificati Ita is based (on data on availa	prior to 11/09/2020 able records provide	was conducted by formed by previous operator	mer operator in cha r in charge.	rge,
·								
Name	:				Signature:			
Title	:				Phone:		Date:	
		nental Assist 0-662-9278	ance Center		Michigan.gov/EGL Page 1 of 5	E	1	EQP59

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A EQP5942a

11. TAP SAMPLING DATA

ŏ Use additional sheets as needed. Sheet

Water Supply Name:

WSSN

(11.2.3.0T)				Category	Building	Service	Tap	प्र	1st Liter Sample	ole ole	2	5th Liter Sample	ole
Attached	Sample Loca	<u> </u>		(see below) ²	Plumbing (L,C,CLS, G,P) ³		Type (K.B)⁴	Lead mg/L ug/L	Copper mg/L mg/L mg/L	Lab Sample Number	Lead Ug/L	Copper mg/L ug/L	Lab Sample Number
Category Description Ther Tetragory There Tetragory There Tetragory There Tetragory Tetragory There Tetragory Tetr	e Attached												
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2 Category Description 2 Category Description And Sangle Family will interior lead plumbing Ther 2 Category Description Ther 2 Category Description Ther 3 Category Description Ther 3 Category Description Ther 3 Category Description Multi Family or building will lead service line C = Copper C = Category will read solder C = Category C = Category will read solder C = Category C = Category will read solder C = Category C = C = C = C = C = C = C = C = C = C													
2 Category Description 2 Category Description A. Single Family w/ lead service line B. Single Family w/ lead service line B. Single Family w/ londor or plumbing C. Single Family w/ copper plumbing with read solder B. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder B. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing with read solder C. Single Family w/ copper plumbing w/ copper plumbing													
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2 Category Description A Single Family w/ lead service line B Single Family w/ lead service line B Single Family w/ lead service line C E Copper C = Copper								W					
A Single Family w/ lead service line E Single Family w/ intencr lead plumbing C = Copper C = Copper C = Copper with lead solder		Description		-		escription			Nc.	laterial		4 Tap Type	
B Sargle Family w' interior lead plumbing Ther 2 E Multi Family or building w' interior lead plumbing C = Copper vith tead solder C = Copper vith tead vith tead solder C = Copper vith tead vith te	1	Snale Family w/ lead so	ervice fine	\dagger	t	Ault Family or buildin	ng w/ lead se	rvice line	-	= Lead		K = Kitchen	Sirk
Muth Family Residence (MFR) w/ a LSL* or lead interior plumbing, if MFRs comprise at least 20% of total service connections. **Use Form A if any samples collected from sites with LSLs to allow reporting of 1# and 5" liter results. **Dage 2 of 5	8	Single Family w/ intence	r lead plumbing		=	Ault Family or buildin	ig w/ interior	lead plumbing	00	= Copper S = Cooper with	lead solder	B = Bathroor	m Sink not an option for
Other OT if no Tier 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply.	I	Mutti Family Residence tead interior plumbing, if least 20% of total servic	(MFR) w/ a LSL*, or f MFRs comprise at ce connections.	Tier 3		single Famity w/ copp installed before 1988	oer plumbing	with fead solder		= Galvanized = Plastic		residential si	ites)
N	Use Form A allow reportm	of 1st and 5st liter results.	om sites with LSLs to	Other		f no Tier 1, 2, 3 sites. commonly found throo	, use sites re ughout the si	presentative of upply		Jse Form A if an llected from site rvice lines to rep rr results	y samples s with lead out 1st and 55	= -	
						Page 2 of 5							Jan 7 202 LE-DWEHD-CWSS

Bolt, Jennifer (EGLE)

From: Robert Jones <ri>jones@fv-operations.com> Sent: Wednesday, February 3, 2021 11:19 AM

To: Bolt, Jennifer (EGLE) **Subject: Lead Copper Report**

Attachments: Benton Harbor LCR Report H2 2020 Revised 02 01 2021.xlsx

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Robert Jones

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

2960 Lucerne Drive SE, Suite 100 | Grand Rapids | MI | 49546 O: 616.588.2900 | C: 810.220.9441 | F: 616.977.1005 www.fv-operations.com



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WSSN 0600 City of Benton Harbor 2nd Half 2020

Lead and Copper Report and Consumer Notice for Community Water Supply Form A -Supplies

							1st	Draw	5th	Draw
Sample Location	Sample Date	-	Category	Building Plumbing	1	Tap Type (K, B)	Lead ppb	Copper ppb	Lead ppb	Copper ppb
		ОТ)			C, G, P)					
1292 Bishop	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	1.8	1.5	1.9	1.2
931 Monroe	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	4.6	2	9.2	1.8
1129 Jennings	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	17	2	20	1.3
1354 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	1.3	0	1.1	0
948 Ogden	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	6.9	52	7.1	44
1133 Jennings	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	25	4.2	25	2.7
1248 Broadway	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	4.1	0	2	0
1026 Bishop	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	5.5	45	4.4	2.7
1271 Pavone	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	8.6	8.4	3.9	11
1259 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.3	4.2	5.1	0
285 Hastings	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	1.6	7.2	1.3	1.6
1086 Superior	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	7	0	11	0
174 Hastings	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	3.4	1.1	4.4	1.2
649 Pipestone	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	31	5.7	20	14
1112 Agard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	8.2	1.1	1.6
1053 Jennings	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	4.1	5.8	0	6.6
1020 Bishop	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	14	0	5.8
1251 Columbus	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	2.6	36	5.1	42
142 Cross St.	10/20/20	Tier 1	Α	Unk	Lead	KITCHEN	7	1.9	8.3	1
885 Mineral	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	0	4.2	0	5.5
1110 Ogden	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	28	16	29	13
781 Buss	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	100	3.9	1.6	0
610 Superior	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	5.2	37	3	3.1
1124 Colfax	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	3.8	4.9	3.2	5
1016 LaVette	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.1	1.6	5.1	0
1197 Agard	10/15/20	Tier 1	Α	Unk	Lead	KITCHEN	2.9	0	2.9	0
999 Pearl St	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	9.8	7.3	28	16

1178 Broadway	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	18	1.6	19	1.9
857 Ogden	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	21	0	24	0
141 Winan	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	2.4	1.3	4.5
768 Broadway	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.2	0	1.1
812 Lavette	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	240	36	50	2.5
1264 Pavone	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
166 Searles	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	12	2.1	13	2
819 Vineyard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	1.2	4.8	2.4	2.4
1237 Columbus	10/06/20	Tier 1	Α	Unk	Lead	KITCHEN	27	3.4	40	3.7
1115 Superior	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	3.6	51	3.9	54
578 Edwards	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	0	19	6.6	150
341 Brunson	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.5	0	2
1011 Pearl St	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	2.1	6.5	1.8	2.4
1191 Pavone	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.2	1.6	2.1
1069 Hurd	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	2.9	25	3.7	1.5
1225 Colfax	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	4.5	2.9	3.2	0
1289 Bishop	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	8.7	1.1	4.2	0
1291 Superior St	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0
1244 Jennings	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
185 Parker Ave	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	5	0
1161 Union St	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	3	0	5	0
504 Territorial Rd	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
552 Buena Vista	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0
1143 Union	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	5	0	4	0
854 LaSalle St	12/3/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
232 Hastings Ave	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
201 Garfield	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
400 John Street	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	1	0
204 Garfield	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1043 Agard	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	4	0	2	0
1037 Pearl	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
582 Niles	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	2	0
660 McGuigan	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1167 Broadway	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1066 Monroe	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
855 Lavette	12/3/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
565 Clay (stagnation	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	2	0	2	0

1212 Pearl St	14-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	20	2.9	1.1	1.6
161 Kline	29-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	0	4.7		
538 Columbus	20-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	5.2	3.1	3.6	1.8
Sample #1	08-Jul-20	Unk	Unk	Unk	Unk	Unk	0	11		
Sample #5	08-Jul-20	Unk	Unk	Unk	Unk	Unk			0	2.7



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINK BYGNIKATE RVIA A ERO RATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Work Wordtkn Orden 120 10813270 13400 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 565 CLAY, BENNEMONARE ON ROE

Collected Bollected By: RESIDENTOME OWNER

Township/ Well# Sig (Well#/Section:

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHIDER ST DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 10:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATIO	N			RI	EGULATORY IN		
	Analyte Name Analyte Name	Result Result Units	Units	L Tool	Teste M CL	ALCL/AL	Method Method	CAS CAS#	
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level RL: Reporting Limition Level mg/L: milligrams/dester (APAB) Number

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane CAS: Chemical Abstract Service

CFU: Colony Forming Unit

Page 1 d

AL: Action Every Manufacture and Alexander State and Alexander Sta

Archived: Thursday, February 18, 2021 10:33:42 AM

From: Robert Jones

Sent: Mon, 15 Feb 2021 19:38:16

To: Bolt, Jennifer (EGLE)
Cc: Sarkipato, Ernest (EGLE)
Subject: 565 Clay COC

Importance: Normal
Sensitivity: None
Attachments:

565 clay coc.pdf

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Sorry for delay

Robert Jones

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

2960 Lucerne Drive SE, Suite 100 | Grand Rapids | MI | 49546 O: 616.588.2900 | C: 810.220.9441 | F: 616.977.1005

www.fv-operations.com

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Constitute as the solution constitute of the solution of the s

Benton Harbor Water Department

Mportan

Lead and Copper Sampling

Dear: _____

Address: 505 Clay

Thank you for assisting us in sampling for lead and copper.

Please let your water sit for 6 or more hours.

You need to begin the testing before anyone uses any water in the house. Usually, first thing in the morning or after returning home from work.

The 5 bottles in your box need to be filled one after another for the State required testing.

Bottle 1 and 5 are used to sample for lead in water pipes to the home. These are filled and capped.

Bottles 2, 3, and 4 are a place holder. These are poured out after and returned empty.

Please fill out this sheet once you	are done.	We need:
-------------------------------------	-----------	----------

Water Off: Date: 12-20	r the 6-hour holding time:Time:// prod
Then the Date and Time you started to collect	the 5 sample bottles:
Water Sample at: Date: 12-4-20	Time:
Signature/Initials Phone #	

Put everything in the box and leave it outside for us to pick up.

If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready for pick up.

Archived: Thursday, February 18, 2021 10:33:47 AM

From: Robert Jones

Sent: Tue. 16 Feb 2021 15:13:43

To: Bolt, Jennifer (EGLE)

Cc: Sarkipato, Ernest (EGLE) Catherine Winn

Subject: RE: 565 Clay COC

Importance: Normal Sensitivity: None

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

All the information was entered prior to being received at water plant with the samples. Information would be provided by sampler and collector (Reverend Pinckney)

From: Bolt, Jennifer (EGLE) <BOLTJ@michigan.gov>

Sent: Tuesday, February 16, 2021 10:07 AM **To:** Robert Jones <rjones@fv-operations.com>

Cc: Sarkipato, Ernest (EGLE) <SARKIPATOE@michigan.gov>

Subject: RE: 565 Clay COC

Hey Rob and Ernie,

I see some issues with this. The instruction sheet itself was completed and signed in black ink. That information indicates that the sample had > 6hrs stagnation.

Then there is red ink that indicates that the water runs non-stop and someone used the water at 3am. There is no signature.

So my questions are as follows....

So who wrote in red?

Is there a direct relationship to the sample collector?

How was this information collected?

Why wasn't it signed or initialed if this was a change to the original document?

Please let me know if this would be better discussed in a phone call. I can set up a meeting whenever would be convenient for you both.

Thank you,

Jeni Bolt

Environmental Quality Specialist

Drinking Water and Environmental Health Division

Michigan Department of Environment, Great Lakes, and Energy

517-331-5161 | boltj@Michigan.gov

Michigan.gov/LCR | Michigan.gov/drinkingwater

Follow Us | Michigan.gov/EGLE



From: Robert Jones <ri>jones@fv-operations.com>

Sent: Monday, February 15, 2021 2:38 PM

To: Bolt, Jennifer (EGLE) <BOLTJ@michigan.gov>

Cc: Sarkipato, Ernest (EGLE) <SARKIPATOE@michigan.gov>

Subject: 565 Clay COC

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Sorry for delay

Robert Jones

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MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINK BYGNIKATE RVIA A ERO RATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Worktr Orden: 12010813270134200 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 565 CLAY, BENNEMONARE ON ROE

Collected Bollected By: RESIDENTOME OWNER

Township/ Well# Sig (Well#/Section:

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 10:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		REGULATORY INFORMATION						
	Analyte Name Analyte Name	Result Result Units	Units	RL Dat	, TestedΜCЦ	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit MCL: Maximum Contaminant Level RL: Reporting Limition Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) mg/L: milligrams/dester (APAB) Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State and Alexander Sta

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1 d





WSSN 0600

The City of Benton Harbor and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

Lead and Copper Report 2nd half 2020

1 10000	
I certify under penalty of law that this de	ocument and all attachments were prepared under my
	th a system designed to assure that qualified personnel
	ntion submitted. Based on my inquiry of the persons or
	persons directly responsible for gathering such
	s to the best of my knowledge and belief, true,
	t there are significant penalties for submitting false ne and imprisonment for knowing violations."
Benton Harbor Representative E	Ilis Mitchell Left Date: 1/05/2021
Signature:	Date: // 03 / 202/
/	,
F&V Operations Representative:	N/A
Signature: N/A	Date: N/A





9

1. Supply Name:

Benton Harbor

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A - SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

	2. Co	ounty:	Berrien			3. WSS	SN: 0600	
	4. Po	opulation:	9826	5. N	Monitoring Period:	From: 07/01/2020	To: 12/31/2020	_
	6. M	inimum # of	Samples Re	quired:	60	7. # of Samples Tal	ken: 64	
	8. Na	ame of Certi	ied Laborato	огу:	State of Michigan	and Eurofins Eaton A	nalytical	_
	E 001	TEDIA						
		TERIA:						104571
This	form	is for wat LE	er supplies AD SERVIC	collec E LINI	ting <u>some</u> or <u>all</u> ES. All other sup	lead and copper sa plies should use Fo	mples from sites orm B.	VVIII
Yes	No							
\boxtimes		Are some	or all sample	s from s	ites WITH lead sen	vice lines?		
•		If no sites	served by a	lead ser	vice line, STOP and	l use Form B.	For more informa	ation
		Did you pr Tier 1 If insu If insu If no T	ioritize samp sites must be fficient Tier 1 fficient Tier 2 ier 1, 2, or 3	le collect e used to sites av sites, the sites are	ction according to the inless insufficient Tivallable, then Tier 2 then Tier 3 sites must available, sites must be available, sites must be available, sites must be available.	e following: er 1 sites available, sites must be used.	see Instructions "Tier and Sample Category" at the the document.	item 11
		Were the s	same sampli ain (attach a	ng sites additions	used as in the prev il pages if needed);	ious monitoring period Not all previous sites v	? were willing to partic	cipate.
Comr Servi	ce line	e material da	and notificati Ita is based (on data on availa	prior to 11/09/2020 able records provide	was conducted by formed by previous operator	mer operator in cha r in charge.	rge,
·								
Name	:				Signature:			
Title	:				Phone:		Date:	
		nental Assist 0-662-9278	ance Center		Michigan.gov/EGL Page 1 of 5	E	1	EQP59

EQP5942a LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A

IN Ch

11. TAP SAMPLING DATA

Use additional sheets as needed. Sheet

ö

Water Supply Name:

WSSN:

Lab Sample Number 5th Liter Sample Copper mg/L mg/L ug/L Lab Sample Number 1st Liter Sample Copper mg/L mg/L mg/L Lead mg/L lug/L lug/L Tap Type (K,B)⁴ Service Line (L*,C,G,P)³ Building Plumbing (L,C,CLS, G,P)³ Category (see below)² Tier. (1,2,3,0T)¹ Sample Date Sample Location See Attached

Tier	2 Category	Description	1 Tier	2 Category	Description	3 Material	4 Tap Type
	Α.	Single Family w/ lead service line		٥	Multi-Family or building w/ lead service line	L'a Lead	K = Kitchen Sink
	83	Sargle Family w/ intency lead plumbing	Tier 2	ш	Multi Famity or building w/ interior lead plumbing	C = Copper Ct.S = Copper with lead solder	B = Bathroom Sink O = Other (not an option for
Tier 1	O	Mutti Family Residence (MFR) w/ a LSL* or tead intendr plumbing, if MFRs comprise at feast 20% of total service connections.	Tier 3	(L.	Single Famity w/ copper plumbing with lead solder installed before 1988	G = Galvanized P = Plastic	residential sites]
	* Use Form A allow reporting	* Use Form A if any samples collected from sites with LSLs to allow reporting of 1st and 5st liter results.	Other	10	If no Ter 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply.	* Use Form A if any samples collected from sites with lead service lines to report 1" and 5" liter results	EC
					Page 2 of 5		Jan 7 2021 LE-DWEHD-CWSS-LCU

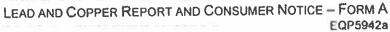
WSSN 0600 City of Benton Harbor 2nd Half 2020

Lead and Copper Report and Consumer Notice for Community Water Supply Form A -Supplies

							1st	Draw	5th	Draw
Sample Location	Sample Date	Tier (1,2, 3,	Category	Building Plumbing	Service Line (L,	Tap Type (K, B)	Lead ppb	Copper ppb	Lead ppb	Copper ppb
		0T)			C, G, P)		50		E	
1292 Bishop	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	1.8	1.5	1.9	1.2
931 Monroe	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	4.6	2	9.2	1.8
1129 Jennings	10/07/20	Tier 1	1 A	Unk	Lead	KITCHEN	17	2	20	1.3
1354 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	1.3	0	1.1	1 C
948 Ogden	10/21/20	Tier 1	A	Unk	Lead	KITCHEN	6.9	52	7.1	44
1133 Jennings	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	25	4.2	25	2.7
1248 Broadway	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	4.1	0	2	© C
1026 Bishop	11/09/20	Tier 1	Α) ∪nk	Lead	KITCHEN	5.5	45	4.4	2.7
1271 Pavone	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	8.6	8.4	3.9	. 11
1259 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.3	4.2	5.1	\ C
285 Hastings	11/10/20	Tier 1	ST All	Unk	Lead	KITCHEN	1.6	7.2	1.3	1.6
1086 Superior	10/29/20	Tier 1	A	Unk	Lead	KITCHEN	7	0	111	
174 Hastings	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	3.4	1.1	4.4	1.2
649 Pipestone	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	31	5.7	20	
1112 Agard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	8.2	1.1	1.6
1053 Jennings	10/14/20	Tier 1	Α	. Unk	Lead	KITCHEN	4.1	5.8	0	6.6
1020 Bishop	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	14	□ 0	
1251 Columbus	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	2.6	36	5.1	42
142 Cross St.	10/20/20	Tier 1	A	Unk	Lead	KITCHEN	7	1.9	8.3	
885 Mineral	11/09/20	Tier 1	Α	- Unk	Lead	KITCHEN	0	4.2	□ 0	5.5
1110 Ogden	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	28	16	29	13
781 Buss	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	100	3.9	1.6	
610 Superior	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	5.2	37	3	3.1
1124 Colfax	10/14/20	Tier 1	A	Unk	Lead 🦸	KITCHEN	3.8	4.9	3.2	1 5
1016 LaVette	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.1	1.6	5.1	i (
1197 Agard	10/15/20	Tier 1	Α	∥ Unk	Lead	KITCHEN	2.9	0	2.9	(

999 Pearl St	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	9.8	7.3	28	16
1178 Broadway	10/07/20	Tier 1	1 A	Unk	Lead	KITCHEN	18	1.6	19	1.9
857 Ogden	10/07/20	Tier 1	9 A.	Unk	Lead	KITCHEN	21	0	24	™ 0
141 Winan	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	2.4	1.3	4.5
768 Broadway	11/10/20	Tier 1	18 A	Unk	Lead	KITCHEN	0	1.2	0	1.1
812 Lavette	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	240	36	50	2.5
1264 Pavone	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
166 Searles	10/07/20	Tier 1	Α	/ Unk	Lead	KITCHEN	12	2.1	13	2
819 Vineyard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	1.2	4.8	2.4	2.4
1237 Columbus	10/06/20	Tier 1	Α	Unk	Lead	KITCHEN	27	3.4	40	3.7
1115 Superior	11/10/20	Tier 1	1 A 12	Unk	Lead	KITCHEN	3.6	51	3.9	: 54
578 Edwards	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	0	19	6.6	150
341 Brunson	10/29/20	Tier 1	4 A	Unk	Lead	KITCHEN	0	1.5	0	2
1011 Pearl St	10/21/20	Tier 1	4 A	Unk	Lead	KITCHEN	2.1	6.5	1.8	2.4
1191 Pavone	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.2	1.6	2.1
1069 Hurd	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	2.9	25	3.7	1.5
1225 Colfax	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	4.5	2.9	3.2	∜ 0
1289 Bishop	10/21/20	Tier 1	1 A	Unk	Lead	KITCHEN	8.7	1.1	4.2	0
1291 Superior St	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	2	0	2	0
1244 Jennings	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
185 Parker Ave	12/4/2020	Tier 1	Α	ac Unk	Lead	KITCHEN	1	0	5	0
1161 Union St	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	3	0	5	W 0
504 Territorial Rd	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
552 Buena Vista	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	2	0	2	0
1143 Union	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	5	0	: 4	0
854 LaSalle St	12/3/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
232 Hastings Ave	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	0	0	0	- 0
201 Garfield	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
400 John Street	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	1	0
204 Garfield	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	0	0	#1 0	∥ 0
1043 Agard	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	4	0	2	0
1037 Pearl	12/4/2020	Tier 1	∃ A⊞	Unk	Lead	KITCHEN	0	0	- 0	0
582 Niles	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	2	1 0
660 McGuigan	12/4/2020	Tier 1	: A	Unk	Lead	KITCHEN	0	0	0	0
1167 Broadway	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1066 Monroe	12/4/2020	Tier 1	* A	Unk	Lead	KITCHEN	0	0	0	0

855 Lavette	12/3/2020	" Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
565 Clay (stagnation	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0



EGLE

CONSUMER NOTICE OF LEAD AND COPPER RESULTS REQUIREMENTS AND CERTIFICATION

Each community water supply must deliver a Consumer Notice of Lead and Copper Results (Consumer Notice) to the occupants at each location sampled within 30 days of learning the sample results as required under R 325.10410(5) of the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. Failure to deliver the Consumer Notice to each location on time will result in a reporting violation.

Instructions:

- A. Use the Consumer Notice Form A template for sites with lead service lines or Consumer Notice Form B template for sites without lead service lines. See the examples on Page 10 to document results from both sites with a lead service line and without a lead service line.
- B. Complete one Consumer Notice for each home or building that was sampled. MAKE SURE UNITS ARE CORRECT BEFORE DISTRIBUTING TO CONSUMERS.

Note: 1 mg/L = 1 ppm = 1,000 ppb Example: 0.002 mg/L = 0.002 ppm = 2 ppb

- C. Mail or hand deliver each Consumer Notice to the corresponding home or building sampled.
- D. Water supplies have 90 days after the end of the monitoring period to submit a sample copy of the Consumer Notice along with a signed certification that notices have been distributed as required under R 325.10710d(f)(3) to the appropriate EGLE district office. When possible, EGLE encourages water supplies to send the sample Consumer Notice and certification (page 4 of this document) along with the Lead and Copper Report (pages 1 and 2 of this document), which is due within ten days after the end of the monitoring period. Please COMPLETE all forms accurately to avoid resubmittal.

Certification:

I hereby certify that the Consumer Notice of Lead and Copper Results (Consumer Notice) has been provided to persons served at each of the taps that were tested, including all the following information:

- Delivery was by mail, hand delivery, or another method approved by EGLE.
- · Delivery was within 30 days of knowing the result.
- Consumer Notice includes required content:
 - The results of lead and copper tap monitoring for the site that was sampled.
 - o An explanation of the health effects of lead and copper.
 - o Steps consumers can take to reduce exposure to lead in drinking water.
 - o Contact information for the public water supply.
 - The maximum contaminant level goal and the action level for lead and copper with the definitions explaining each.

Page 3 of 5



RECEIVED Jan 7 2021

CONSUMER NOTICE OF LEAD AND COPPER RESULTS IN DRINKING WATER SITE WITH A LEAD SERVICE LINE

Water Supply Name:	Benton Harbor		
County:	Berrien	WSSN:	0600
•	201 Garfield	Date Sampled:	12/4/2020
Sample Location:	201 Garriera		

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below. Your home is served by a lead service line. This means that the pipe that brings water to your home contains lead. The first liter sample represents the water you are likely to drink when turning on the tap, and the fifth liter sample likely represents the water in the service line.

Contaminant	Action Level	Maximum Contaminant Level Goal	1 st Liter Result	5 th Lite Result
Lead (ppb)	15	0	1	1
Copper (ppb)	1300	1300	0	0

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

ppb: Parts per billion or micrograms per liter.

ND: Not detected.

To reduce exposure to lead and copper in drinking water:

- Run your water before drinking. The more time water has been sitting in your home's pipes, the more lead it may contain. Therefore, if your water has not been used for several hours, run the water before using it for drinking or cooking. This flushes lead-containing water from the pipes. Additional flushing may be required for homes that have been vacant or have a longer service line.
 - If you do not have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.
 - o If you do have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.
- Use cold water for drinking, cooking, and preparing baby formula. Do not cook with or drink water from the hot water tap. Lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
- Consider using a filter to reduce lead in drinking water. Read the package to be sure the filter is NSF 53 certified to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for more information.
- Consider purchasing bottled water. The bottled water standard for lead is 5 ppb.
- Identify older plumbing fixtures that likely contain lead. Older faucets, fittings, and valves sold before 2014 may contain higher levels of lead, even if marked "lead-free." Faucets, fittings, and valves sold after January 2014 are required to meet a more restrictive "lead-free" definition but may still contain up to 0.25 percent lead.
- Clean your aerator. As part of routine maintenance, the aerator should be removed at least every six months to rinse out any debris that may include particulate lead.
- Get your child tested. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure.



LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A EQP5942a

EGLE

Lead can cause serious health and developmental problems. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. Although other sources of lead exposure exist, such as lead paint, and lead contaminated dust, your water supply is contacting you to reduce your risk of exposure to lead in drinking water. If you have questions about other sources of lead exposure, please contact your local health department.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

The United States Environmental Protection Agency (U.S. EPA) estimates that 20 percent or more of human exposure to lead may come from drinking water. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's website at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

For more information on copper, visit the United States Center for Disease Control website at www.atsdr.cdc.gov/index.html, or contact your health provider.

For more information regarding your water supply, contact us at: 269.927.8471



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36695**773

Work Work Prode 01 20 10813270 10400 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1291 SUPERTOR MONTON, MANBOR

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHIDER ST DRAW Water System: Treated Public Bistribution System WSSN/146551110Pool 0100 04450 TYPF ITYPE I Source: Source:

Site CoSite Code:

Collector: Other Other

Date Collected/04/26209/2020 12:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Water Quality Problem Purpose: Purpose:

		TESTING INFO	-			RE	EGULATORY INI	
	Analyte Name Analyte Name	Result Res		nits RL	Tested/ICL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not det	tected m	g/L 0.05	12/14/2020) 1.3	EPA 200.8	7440-50-8
Lead	Lead	Not det	tected m	g/L 0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit MCL: Maximum Contaminant Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

mg/L: milligrams/dester (APAB) Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

RL: Reporting Limition Level MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1 o

AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL)

12/21/2020 1:28:48PM Report Created on:



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36696**773

Work Worker Orden: 12010813270104200 01

System Nayser wheme Owner OBERT ON PS MONROE

Collection Address: 1291 SUPERTOR MONTON, MANBOR

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(//

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 12:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	١			RI	EGULATORY IN	
	Analyte Name	Result Result Units	Units	RL Date	ৣ Teste M CЦ	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The Agency and The EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The Agency and The EGLE Drinking Water Laboratory were conducted using the U.S. Environmental Protection Agency in The Agency and The Egle Drinking Water Laboratory were conducted using the U.S. Environmental Protection Agency in The Egle Drinking W accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) CFU: Colony Forming Unit ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level CAS: Chemical Abstract Service mg/L: milligranna Moster (APAB)e Number RL: Reporting Limition Level CFU: Colego a forming lacit Marlene Kane MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) CAS: Chemical Abstract Service AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL) MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM Page 1



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36697**773

Work Worker Orden: 12010813270104300 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1143 UNION, BEAMONT-ARMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 04:10 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORM	MATION			RE	GULATORY INF	-
	Analyte Name	Result Resul	t _{Units} Units	RL Da	Teste d/ СЦ/	MCL/AL		CAS #
Copper	Copper	Not detec	ted mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detec	ted mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit MCL: Maximum Contaminant Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

RL: Reporting Limition Level

mg/L: milligrams/dester (APAB) Number MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL)



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36698**773

Work Work Worden Orden 120 10813270 10400 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1143 UNION, BEAMONT-ARMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPINGERW DRAW

Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 04:10 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATIO	N			RI	EGULATORY IN	
	Analyte Name Analyte Name	Result Result Units	Units	RL Dat	, TestedΜCЦ	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level RL: Reporting Limition Level mg/L: milligrams/dester (APAB) Number

> 12/21/2020 1:28:48PM Report Created on:

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) CAS: Chemical Abstract Service AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL) MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM Page 1 d



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36699**773

Work Worker Orden: 12010813270104500 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1037 PEARL BRENTONTHARMORE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(

County: County: Berrien Monroe

Sample Point:

Water System:

KITCHEN GINKENRSHKORRAT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	ON			RI	EGULATORY IN	
	Analyte Name Analyte Name	Result Result _{Units}	Units	RL Da	Tested/ICL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020		EPA 200.8	7439-92-1

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) mg/L: milligrams/dester (APAB) Number

CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane CAS: Chemical Abstract Service

CFU: Colony Forming Unit

RL: Reporting Limition Level MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

Page 1 d



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36766**773

Work Worker Orden: 12010813270104600 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1037 PEARL BREAKNITH ARMORE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

	120	N	REGULATORY INFORMATIO					
	Analyte Name	Result Result Units	Units	RL Da	Teste d /ICЦ/	AMCL/AL	Method Method	CAS CAS#
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level RL: Reporting Limition Level mg/L: milligrams/dester (APAB) Number

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL) MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CFU: Colony a forming tabit Marlene Kane CAS: Chemical Abstract Service Page 1

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Page 1 of 1



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36706773

Work Work Worden Orden 120 10813270 109700 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1043 AGARD, BENTON NARWORDE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

			REGULATORY INFORMATION					
	Analyte Name Analyte Name	Result Result Units	Units	RL Dat	, TestedΜCЦ	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) CFU: Colony Forming Unit ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level CAS: Chemical Abstract Service RL: Reporting Limition Level mg/L: milligrams/dester (APAB) Number CFU: Colony a forming tabit Marlene Kane

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) CAS: Chemical Abstract Service

AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL) MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

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USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36702**773

Work Worker Orden: 1201081327010830 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1043 AGARD, BENTON NARWORDE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW

Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFO	-	REGULATORY INFORMATION				
	Analyte Name Analyte Name	Result Res		nits RL	Tested/ICL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not det	tected m	g/L 0.05	12/14/2020) 1.3	EPA 200.8	7440-50-8
Lead	Lead	Not det	tected m	g/L 0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

CAS: Chemical Abstract Service

Page 1 d

Page 1 of 1

AL: Action Every Manufacture and Alexander State of Action Branch State of PA 368 of 1978 as amended Not Detected: Not detected at or above the reporting limit (RL)



USEPA Regiona & Oribking Water Greaten & M. 1900 93 100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36708**773

Work Worker Orden: 12010813270104900 01

System Nayatem Name/Owner BENTON CHIAR BOKNONROE

Collection Address: 854 LASALLET BENDON STANDOROE

Collected Bollected By:

HOME OWNER

Township/**Well#Section:**

County: County: Sample Point: Water System: Berrien Monroe

KITCHEN GINKENRSHKORRAT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/03/26209/2020 23:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

			REGULATORY INFORMATION					
	Analyte Name Analyte Name	Result Result Uni	ts Units RL	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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RL: Reporting Limit MCL: Maximum Contaminant Level mg/L: milligrams / Liter (ppm)

CFU: Colony Forming Unit

RL: Reporting Limition Level

ng/L: nanograms / Liter (ppt)

CAS: Chemical Abstract Service

mg/L: milligrams/dester (APAB) Number

CFU: Colony a forming tabit Marlene Kane CAS: Chemical Abstract Service

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State and Alexander Sta

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

Page 1 d



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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36704773

Work Work Prode 01 20 10813270 114000 01

System Nayatem Name/Owner BENTON CHIAR BOKNONROE

Collection Address: 854 LASALLET BENDON STANDOROE

Collected Bollected By: Township/**Well#Section:**

Sample Point:

Water System:

HOME OWNER

County: County:

Berrien Monroe

KITCHEN SINKENPIN DELENT DRAW

Treated Public Bistribution System

WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/03/26209/2020 23:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

			REGULATORY INFORMATION					
	Analyte Name Analyte Name	Result Result Uni	ts Units RL	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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RL: Reporting Limit

MCL: Maximum Contaminant Level

mg/L: milligrams / Liter (ppm)

CFU: Colony Forming Unit

RL: Reporting Limition Level

ng/L: nanograms / Liter (ppt) mg/L: milligrams/dester (APAB) Number

CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1 d

AL: Action Every Manufacture and Alexander State and Alexander Sta

Report Created on:

12/21/2020 1:28:48PM



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Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36706773

Work Works Orden 120 1031320 1440 0 _ 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 855 LAVETZE, BEMPON STAMBOROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/02/26209/2020 23:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

	TESTING INFORMATION						REGULATORY INFORMATION			
	Analyte Name Analyte Name		sult _{Units}	Units	RL Date	д TestedИCЦ	/ALCL/AL	Method Method	CAS #	
Copper	Copper	Not de	tected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not de	tected	mg/L	0.001	12/14/2020		EPA 200.8	7439-92-1	

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MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36706773

Work Work rOrden: 12010813270114200 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 855 LAVETZE, BEMPON STAMBOROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/02/26209/2020 23:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

	120	N	REGULATORY INFORMATIO					
	Analyte Name	Result Result Units	Units	RL Da	Teste d /ICЦ/	AMCL/AL	Method Method	CAS CAS#
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36706773

Work Worker Orden: 12010813270114300 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 204 GARP12 LTB. BLANTON THAN BORDE

Collected Bollected By: RESIDENTOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION		REGULATORY INFORMATION				
	Analyte Name Analyte Name	Result Result _{Units}	Units	RL Da	Tested/ICL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020		EPA 200.8	7439-92-1

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MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36708**773

Work Work Prode 01 20 108 132 0 114 00 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 204 GARP12 LTB. BLANTON THAN BORDE

Collected Bollected By: RESIDENTOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V} //

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

	120	N	REGULATORY INFORMATIO					
	Analyte Name	Result Result Units	Units	RL Da	Teste d /ICЦ/	AMCL/AL	Method Method	CAS CAS#
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

AL: Action Every Manufacture and Alexander State and Alexander Sta MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

12/21/2020 1:28:48PM

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Page 1



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36709**773

Work Worker Orden: 12010813270114600 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 201 GARF12LTR, BMONT IN THAIR BORE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 07:30 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

			REGULATORY INFORMATION					
	Analyte Name Analyte Name	Result Result Uni	ts Units RL	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State and Alexander Sta MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

12/21/2020 1:28:48PM Report Created on:

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

CAS: Chemical Abstract Service Page 1 d

Page 1 of 1



USEPA Regiona & Oribking Water Greaten Centil 900.93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36736773

Work Work Prode 01 20 10813270 11460 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 201 GARF12LTR, BMONT IN THAIR BORE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW

Water System: Treated Public Bistribution System WSSN/146551110Pool 0100 04450 TYPF ITYPE I Source: Source:

Site CoSite Code:

Collector: Other Other

Date Collected/04/26209/2020 07:30 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Water Quality Problem Purpose: Purpose:

			REGULATORY INFORMATION					
	Analyte Name Analyte Name	Result Result Uni	ts Units RL	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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RL: Reporting Limit MCL: Maximum Contaminant Level RL: Reporting Limition Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colego a forming lacit Marlene Kane

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

mg/L: milligrams/dester (APAB) Number

CAS: Chemical Abstract Service

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

Page 1 o



USEPA Regiona & Oribking Water Greaten Centil 900.93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID:LJ36736773 Work Work Prode 01 20 10813270 114700 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 504 TERR12RIAE MONTH SEMPOR PEARBOR

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: Water System:

KITCHEN GINKENRSHKORRAT DRAW

Treated Public Bistribution System

WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:30 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

			REGULATORY INFORMATION						
	Analyte Name Analyte Name	Result ResultUnits	Units	RL Dat	TestedMC∐	/ALCL/AL	Method Method	CAS #	
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the EGLE Drinking Water Laboratory were conducted using the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The Agency and The EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The Agency and The EGLE Drinking Water Laboratory were conducted using the U.S. Environmental Protection Agency in The Agency and The Egle Drinking Water Laboratory were conducted using the U.S. Environmental Protection Agency in The Egle Drinking W

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) mg/L: milligranna Moster (APAB)e Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colego a forming lacit Marlene Kane CAS: Chemical Abstract Service

RL: Reporting Limition Level

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) AL: Action Every Manufacture and Alexander State and Alexander Sta MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

Page 1



USEPA Regiona & Oribking Water Greaten Centil 900.93100003

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36738773

Work Work Prode 01 20 10813270 11480 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 504 TERRIPATEMENT MONTARE OR

Collected Bollected By: RESIDENTOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW Water System:

Treated Public Bistribution System

WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:30 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMA	ATION			RE	EGULATORY INI	
	Analyte Name Analyte Name	Result Result _U	nits Units RL	RL Da	TestedΜCЦ/	ALCLIAL	Method Method	CAS #
Copper	Copper	Not detected	d mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	9. –	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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USEPA Regiona & Oribking Water Greaten Centil 900.93100003

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36738773

Work Work rOrden: 12010813270114900 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1066 MONROE, BLANTON THARBORE

Collected Bollected By: RESIDENHOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

Berrien Monroe

County: County: Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 04:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMA	ATION			RE	EGULATORY INI	
	Analyte Name Analyte Name	Result Result _U	nits Units RL	RL Da	TestedΜCЦ/	ALCLIAL	Method Method	CAS #
Copper	Copper	Not detected	d mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	9. –	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKINGAWATERNAMER BABORXTORY

USEPA Regiona & Oribking Water Greaten Centil 900.93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36736773

Work Worktr Orden: 12010813270124000 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1066 MONROE BEANT NON THARBER

Collected Bollected By: RESIDENHOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

Water System:

KITCHEN SINKENPIN DELENT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 04:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	١			REGULATORY INFORMATION		
	Analyte Name	Result Result Units	Units	RL Dat	੍ਰ Teste M CL	AMCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

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CAS: Chemical Abstract Service Page 1



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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36736773

Work Worktr Orden: 12010813270124100 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: Water System:

KITCHEN GINKENRSHKORRAT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 05:50 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			RE	EGULATORY IN	
	Analyte Name Analyte Name	Result Result _{Units}	Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) mg/L: milligrams/dester (APAB) Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

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MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1 d



USEPA Regiona & Oribking Water Greaten Centil 900.93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36736773

Work Worktr Orden: 12010813270124200 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

Water System:

KITCHEN SINKENPIN DELENT DRAW

Treated Public Bistribution System

WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 05:50 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			RE	EGULATORY IN	
	Analyte Name Analyte Name	Result Result _{Units}	Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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RL: Reporting Limit

MCL: Maximum Contaminant Level RL: Reporting Limition Level

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mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

mg/L: milligrams/dester (APAB) Number MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

CAS: Chemical Abstract Service

Page 1 d



MICHIGACHAGERABEMERT OF INVIRQNMENTAGERA, GREEFE ARES, FINES ENERGY DRINKING WATER WARERES BRATORY

USEPA Regiona & Prinking DWARFIG CAPTEN C. M. 1999 93100003

P.O. Box 3867 30270 Lansing Mhg 1999 48909 TEL: (547) 637 9384-8184 FAX: (547) 637 8582-8562

Dec 21 2020

Official (Databorate) Official (Databorate)

Report To:RepROBERT CONNECSF MONROE WATER PLANT 1275 HILLSTOPE IRBONT ST ST JOSE MONROED 22 48161 Sam**\$**tem**|p**le ID**L**J3**6736**773

Work Whitehar Orden: 1201081320_12300_01

System Nandemelowner ENTON HIAR BOM ONROE

Collection Address: 660 MCGU GARENTON HARRENT

Collected By: RESIDENTOME OWNER

Township/Well#Section: //

County: County: Berrien Monroe

Sample Point: KITCHEN SINKEN DRAW

Water System: Treated Public Distribution System

WSSN/AGGINDPOOLDE00 04450 Source: TYPE TYPE I

Site Code: DIST

Collector: Other Other

Date Content Collected 104/26/20/2020 06:00 05:15

Date Received 10/26/20/2020 08:39 09:39

Purpose Purpose: Routine Witch Cornelly Problem

		TESTING INFORMATION	N			RE	EGULATORY IN	
	Analyte Name Analyte Name	Result Result _{Units}	Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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RL: Reporting Limit mg/L: milligrams / Liter (ppm)

MCL: Maximum Contaminant Level ng/L: nanograms / Liter (ppt)

RL: Reporting Linition Level mg/L: milligrams / Liter (ppt)

MCL: Maximum Contaminant Level ng/L: milligrams / Liter (ppt)

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MCL: Maximum Contaminant Level ng/L: nanograms / Liter (ppt)

MCL: Maximum Contaminant Level ng/L: nanograms / Liter (ppt)

CAS: Chemical Abstract Service

CFU: Colony Forming Unit

CFU: Colony Forming Unit

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

AL: Action by a samended not perform to the proporting limit (RL)

MCL: Maximum Contaminant Level ng/L: nanograms / Liter (ppt)

CAS: Chemical Abstract Service

CFU: Colony Forming Unit

CFU: Colony Forming Unit

CFU: Colony Forming Unit

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane

Page 1 of the proportion of the proportion



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKINGAWATERNAMER BABORXTORY

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36738773

Work Worktr Orden: 12010813270124400 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 660 MCG1/GTAREMENTON HARVEORE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW

Water System: Treated Public Bistribution System WSSN/146551110Pool 0100 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

	1201	TESTING INF		l .			REGULATORY INFORMATION		
	Analyte Name Analyte Name	-	esult Units	Units RL	RL Date	ू Teste d /ICЦ	AMCL/AL		CAS #
Copper	Copper		etected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not de	etected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

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MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1



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Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J367739773

Work Work rOrden: 12010813270124500 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 582 NILES, BERFORNIA REMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

By authority of PA 368 of 1978 as amended

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHIDER ST DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMA	ATION			RE	EGULATORY INI	
	Analyte Name Analyte Name	Result Result _U	nits Units RL	RL Da	TestedΜCЦ/	ALCLIAL	Method Method	CAS #
Copper	Copper	Not detected	d mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
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Report Created on:

12/21/2020 1:28:48PM

Page 1

CFU: Colony Forming Unit

CFU: Colony a forming tabit Marlene Kane

CAS: Chemical Abstract Service

CAS: Chemical Abstract Service



USEPA Regiona & Oribking Water Greaten Centil 900.93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36726**773

Work Worktr Orden: 12010813270124600 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 582 NILES, BERFORNIA REMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			RI	EGULATORY IN		
	Analyte Name	Result Result Units	Units	RL Dat	Teste M CL	/ALCL/AL	Method Method	CAS #	
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses enformed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) CFU: Colony Forming Unit ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level CAS: Chemical Abstract Service mg/L: milligranna Moster (APAB)e Number RL: Reporting Limition Level CFU: Colego a forming lacit Marlene Kane MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) CAS: Chemical Abstract Service AL: Action Every Manufacture and Alexander State and Alexander Sta MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM Page 1



USEPA Regiona & Oribking Water Greaten & M. 1900 93 100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Reproduce To Reproduce WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Work Wordtkn Orden 120 10813270 124700 01

System Nayatem Name/Owner BENTON CHIAR BOKNONROE

Collection Address: 400 JOHR18T.BENTON PIAMEDIROE

Collected Bollected By:

Township/\(\bar{V}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\alpha}\)\(\hat{\al

County: County:

Sample Point: Water System:

//Berrien Monroe

KITCHENG PORT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	١			REGULATORY INFORMATION		
	Analyte Name	Result Result Units	Units	RL Dat	੍ਰ Teste M CL	AMCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department has detailed information about the quality of drinking water in your area. If you have Your local health department health residually reliable to the first remaining of your semple, please contact the Environmental Health Section through the address and telephone number listed below.

> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level RL: Reporting Limition Level

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) mg/L: milligrams/dester (APAB) Number

MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

CAS: Chemical Abstract Service Page 1

AL: Action Every Manufacture and Alexander State of Action Branch St

Report Created on:

12/21/2020 1:28:48PM



USEPA Regiona & Oribking Water Greaten & M. 1900 93 100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36728773

Work Worktr Orden: 1201081327012800 01

System Nayatem Name/Owner BENTON CHIA TO MOROE

Collection Address: 400 JOHR18T.BENTON PIAMEDIROE

Collected Bollected By:

Township/**Well#Section:**

County: County:

Water System:

Sample Point:

Berrien Monroe

KITCHEN SINKENPINGERW DRAW

Treated Public Bistribution System

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WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Water Quality Problem Purpose: Purpose:

		TESTING INFORMATI	ON			RE	EGULATORY IN	
	Analyte Name Analyte Name	Result Result Uni	ts Units RL	RL Da	Teste M CL	ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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CFU: Colony a forming tabit Marlene Kane CAS: Chemical Abstract Service

RL: Reporting Limition Level MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt)

AL: Action Every Manufacture and Alexander State of Action Branch St

Report Created on:

12/21/2020 1:28:48PM

MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

Page 1

CFU: Colony Forming Unit

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USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36728773

Work Worktr Orden: 12010813270124900 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 552 BUENAVISTA BRINGON FORMARDER

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(

County: County: Berrien Monroe

Sample Point: KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 07:30 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			REGULATORY INFORMATION			
	Analyte Name	Result Result Units	Units	RL Dat	Teste M CL	/ALCL/AL	Method Method	CAS #	
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1	

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> Monroe County Health Dept. Berrigg Gounty ster Road 2149 Fu Napie, rMV48161-2234 Benton Harbors My 499330 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm) CFU: Colony Forming Unit ng/L: nanograms / Liter (ppt) MCL: Maximum Contaminant Level CAS: Chemical Abstract Service mg/L: milligranna Moster (APAB)e Number RL: Reporting Limition Level CFU: Colego a forming lacit Marlene Kane MCL: Maximum Septemenanti-detected at or above the reporting limit (RL) ng/L: nanograms / Liter (ppt) CAS: Chemical Abstract Service AL: Action Every Manufacture and Alexander State and Alexander Sta MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM Page 1 d



Collected Bollected By:

MICHIGACHAGERABEMERT OF INVIRQNMENTAGERA, GREEFE ARES, FINES ENERGY DRINKING WATER WARERESE OR XTORY

USEPA Regiona & Prinking DWARFIG CAPTEN C. M. 1999 93100003

P.O. BOX 3827 30270 Lansing Mhd 490948909 TEL: (547) 339-3384-8184 FAX: (547) 339-2562-8562

Dec 21 2020

Official Official at a by Repropries

Report To Replad BEERT COINES MONROE WATER PLANT 1275 HILISTO E FRONT ST ST JOSE PHONROE WA 48161

Collection Address: 552 BUENTATREMONEREDR

Sam \$ am | ple ID L J 3 6 7 2 4 7 7 3 Work | Work | When the Port of 120 18 18 20 13 10 0 0 1

System Nanterownere/Ownerbentonquares MONROE WSSN/MSAMPooldeno 04450

Source:

TYPE ITYPE I

RESIDENTOME OWNER Site Cosite Code: DIST

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe Date Contected/104/26269/2020 07:30 05:15
Sample Point: KITCHENTINGERN DRAW
Water System: Treated Public Distribution System Purpose: Routine Metallity Problem

TESTING INFORMATION REGULATORY INFORMATION Analyte Name lethod Method CAS #CAS # Date Units Tested/IC Copper Not detected mg/L 0.05 12/14/2020 1.3 EPA 200.8 7440-50-8 Copper Lead Not detected mg/L 0.001 12/14/2020 0.015 EPA 200.8 7439-92-1 Lead

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Monroe County Health Dept. Berrigg କୃତ୍ୟାଫ Nster Road 2149 ଲ ଧନତାଙ୍କ MY 48161-2234 Benton Harbors MY 4896360 269 927-5623

RL: Reporting Limit mg/L: milligrams / Liter (ppm)

MCL: Maximum Contaminant Level ng/L: nanograms / Liter (ppt)

RL: Reporting Liniting Liniting Liniting Level ng/L: milligram / Liter (ppt)

MCL: Maximum Contaminant Level ng/L: milligram / Liter (ppt)

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MCL: Maximum Contaminant Level ng/L: milligram / Liter (ppt)

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CAS: Chemical Abstract Service

CFU: Colony Forming Unit

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CAS: Chemical Abstract Service

CFU: Colony Forming Unit

CAS: Chemical Abstract Service

CFU: Colony Forming Unit

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USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Work Wordtkn Orden 120 10813270 13400 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 565 CLA 1 PENNEMONA RED MONROE

Collected Bollected By: RESIDENHOME OWNER

Township/\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(\bar{V}\)\(

County: County: Berrien Monroe

Sample Point: KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System

Site Coeite Code: DIST

Collector: Other Other

Source: Source:

WSSN/1466591100Poold1000 04450

Date Collected/04/26209/2020 10:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

TYPE ITYPE I

	1201	TESTING INFORMATI				REGULATORY INFORMATION		
	Analyte Name	Result	nits Units	RL Da	Tested/ICЦ/	ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	l mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected		0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in The analyses performed by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILLISTIC TERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Worker Orden: 12010813270134200 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 565 CLAY, BENNEMONARE ON ROE

Collected Bollected By: RESIDENTOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System

Site Coeite Code: DIST Collector:

Other Other

WSSN/1466591100Poold1000 04450

Source: Source:

Date Collected/04/26209/2020 10:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

TYPE ITYPE I

		TESTING INFORMATION				REGULATORY INFORMATION		
	Analyte Name Analyte Name	Result Res		nits RL	Tested/ICL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not det	tected m	g/L 0.05	12/14/2020) 1.3	EPA 200.8	7440-50-8
Lead	Lead	Not det	tected m	g/L 0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36726773

Work Worker Orden: 12010813270134300 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1161 UNION, BEAMONT-ARMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN GINKENRSHKORRAT DRAW

Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATIO					REGULATORY INFORMATION		
	Analyte Name Analyte Name	Result Res	_	Units	RL Date	ू TestedИCЦ	/ALCL/AL	Method Method	CAS CAS #
Copper	Copper	Not det	ected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not det	ected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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CFU: Colony Forming Unit CAS: Chemical Abstract Service CFU: Colony a forming tabit Marlene Kane

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MPN: Most Probable Number Report Created on: 12/21/2020 1:33:35PM

CAS: Chemical Abstract Service Page 1



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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam@temple ID±J36728773

Work Work Wordtkn Orden 120 10813270 13440 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1161 UNION, BEAMONT-ARMONROE

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point: KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 06:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATIO	N			REGULATORY INFORMATION			
	Analyte Name Analyte Name	Result Result Units	Units	L Tool	Teste M CL	ALCL/AL	Method Method	CAS CAS#	
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8	
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1	

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36729**773

Work Worker Orden: 12010813270134500 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1244 JENNINGS MENTON MARKOF

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V} II

County: County: Berrien Monroe

Sample Point:

KITCHEN GINKENRSHKORRAT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 09:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION				REGULATORY INFORMATION		
	Analyte Name Analyte Name	Result Result Uni	ts Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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12/21/2020 1:28:48PM Report Created on:



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Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36736**773

Work Worker Orden: 12010813270134600 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 1244 JENNINGS MENTON MARKOF

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V} II

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 09:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION				REGULATORY INFORMATION		
	Analyte Name Analyte Name	Result Result Uni	ts Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
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CFU: Colony Forming Unit

Page 1 d

AL: Action Every Manufacture and Alexander State and Alexander Sta



USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бож 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36738**773

Work Worker Orden: 12010813270134800 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 185 PARRENTATION MARKET

RESIDENHOME OWNER Collected Bollected By:

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V}

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:00 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION				REGULATORY INFORMATION		
	Analyte Name Analyte Name	Result Result Uni	ts Units	RL Da	Teste M CL	/ALCL/AL	Method Method	CAS #
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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Page 1 d



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

Р.О. Бох 38279₀₂₇₀ Lansing MI 4890948909 TEL: (547) 6347 8384-8184 FAX: (547) 335-8562-8562

Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36738**773

Work Work Wordtkn Orden 120 10813270 13490 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 232 HASTING BENDANT HURBORE

Collected Bollected By: RESIDENHOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V} II

County: County: Berrien Monroe

Sample Point:

Water System:

KITCHEN GINKENRSHKORRAT DRAW Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:20 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			REGULATORY INFORMATION		
	Analyte Name	Result Result Units	Units	RL Da	Teste d /ICЦ/	AMCL/AL	Method Method	CAS CAS#
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
Lead	Lead	Not detected	mg/L	0.001	12/14/2020	0.015	EPA 200.8	7439-92-1

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Page 1



MICHIGAN HABERA BEVERT MENT OF INVIRONMENTA GREKF EARLY, FINERENERGY DRINKING WATER WATER BATORY

USEPA Regiona & Oribking Water Greaten Centil 900 93100003

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Official Official at a by Repropries

Report To Replace BEERT CONNESS MONROE WATER PLANT 1275 HILISTISHERRONT ST ST JOSE MONRO 2012 48161

Sam**Steriple** ID**LJ36736**773

Work Work Wordtkn Orden 120 10813270 14100 01

System NayetrowNeme/OwnerBENTONGHARBONOROE

Collection Address: 232 HASTING BENDANT HURBORE

Collected Bollected By: RESIDENHOME OWNER

Township/\(\bar{V}\) \(\bar{V}\) \(\bar{V} II

County: County: Berrien Monroe

Sample Point:

KITCHEN SINKENPIN DELENT DRAW Water System: Treated Public Bistribution System WSSN/1466591100Poold1000 04450 TYPE ITYPE I Source: Source:

Site Coeite Code: DIST

Collector: Other Other

Date Collected/04/26209/2020 08:20 05:15 Date Received: 10/26/210/2020 08:39 09:39 Routine Monitoring Problem Purpose: Purpose:

		TESTING INFORMATION	N			REGULATORY INFORMATION		
	Analyte Name	Result Result Units	Units	RL Da	Teste d /ICЦ/	AMCL/AL	Method Method	CAS CAS#
Copper	Copper	Not detected	mg/L	0.05	12/14/2020	1.3	EPA 200.8	7440-50-8
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Michigan Department of Environmental Quality

Replicate Laboratory Report for Lansing Drinking Water Laboratory

Owner/Location Information:

BENTON HARBOR 185 PARKER AVE

BENTON HARBOR MI 49085

LLJ36731

Sample/Collection Information:

WSSN: 0600 Site Code: DIST

County: Berrien Water Source: Public Community Water Supply

Township: Sample Reason: Routine Monitoring

Section: Sample Point: Treated Public Distribution System
Well #: Point Description: KITCHEN SINK FIRST DRAW

Collection Date: 12/4/2020 8:00:00 AM

Arrival Date: 12/10/2020 8:39:56 AM

Collected By: RESIDENT

CasNo **Analyte** Result **Units Detect Method** 7440-50-8 COPPER (RECOVERABLE) ND 0.05 mg/L EPA 200.8 7439-92-1 LEAD (TOTAL) 0.009 0.001 mg/L EPA 200.8

Laboratory Comments:

By authority of PA 368 of 1978 as amended. Print Date: 1/1/0001 12:00:00 AM



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at $(800)\ 332-4345$ or $(574)\ 233-4777$.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: City of Benton Harbor Report: 485377

Attn: Michael O'Malley Priority: Standard Written

200 East Wall Street Status: Final Benton Harbor, MI 49002 PWS ID: MI600

	Sam	ple Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4624126	rpb1 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624127	rpb2 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624128	rpb3 Sample 1st	200.8	05/07/20 08:45	Client	05/11/20 10:55
4624129	rpb4 Sample 1st	200.8	05/06/20 21:20	Client	05/11/20 10:55
4624130	rpb5 Sample 1st	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624131	rpb6 Sample 1st	200.8	05/08/20 08:30	Client	05/11/20 10:55
4624132	rpb7 Sample 1st	200.8	05/07/20 06:45	Client	05/11/20 10:55
4624133	rpb8 Sample 1st	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624134	rpb9 Sample 1st	200.8	05/07/20 09:37	Client	05/11/20 10:55
4624135	rpb10 Sample 1st	200.8	05/07/20 10:43	Client	05/11/20 10:55
4624136	rpb11 Sample 1st	200.8	05/07/20 06:40	Client	05/11/20 10:55
4624137	rpb12 Sample 1st	200.8	05/07/20 07:40	Client	05/11/20 10:55
4624138	rpb13 Sample 1st	200.8	05/07/20 07:20	Client	05/11/20 10:55
4624139	rpb15 Sample 1st	200.8	05/07/20 06:00	Client	05/11/20 10:55
4624140	rpb16 Sample 1st	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624141	rpb17 Sample 1st	200.8	05/07/20 07:45	Client	05/11/20 10:55
4624142	rpb18 Sample 1st	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624143	rpb19 Sample 1st	200.8	05/05/20 14:30	Client	05/11/20 10:55
4624144	rpb20 Sample 1st	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624145	rpb21 Sample 1st	200.8	05/08/20 16:14	Client	05/11/20 10:55
4624146	rpb1 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624147	rpb2 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624148	rpb3 Sample 5th	200.8	05/07/20 08:45	Client	05/11/20 10:55
4624149	rpb4 Sample 5th	200.8	05/06/20 21:20	Client	05/11/20 10:55
4624150	rpb5 Sample 5th	200.8	05/06/20 18:28	Client	05/11/20 10:55
4624151	rpb6 Sample 5th	200.8	05/08/20 08:30	Client	05/11/20 10:55
4624152	rpb7 Sample 5th	200.8	05/07/20 06:45	Client	05/11/20 10:55
4624153	rpb8 Sample 5th	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624154	rpb9 Sample 5th	200.8	05/07/20 09:37	Client	05/11/20 10:55
4624155	rpb10 Sample 5th	200.8	05/07/20 10:43	Client	05/11/20 10:55
4624156	rpb11 Sample 5th	200.8	05/07/20 06:40	Client	05/11/20 10:55

4624157 rpb12 Sample 5th 200.8 05/07/20 07:40 Client 05/07/20 07:20 05/07/20 07:20 Client 05/07
4624159 rpb15 Sample 5th 200.8 05/07/20 06:00 Client 05/07/20 Client 05/
4624160 rph16 Sample 5th 200.9 05/07/20 07:00 Client 05
4024 100 1pb 10 Sample 5th 200.6 05/07/20 07.00 Client 05/
4624161 rpb17 Sample 5th 200.8 05/07/20 07:45 Client 05/07/20 07:45
4624162 rpb18 Sample 5th 200.8 05/07/20 08:00 Client 05/07/20 08:00
4624163 rpb19 Sample 5th 200.8 05/05/20 14:30 Client 05/05/20 14:30
4624164 rpb20 Sample 5th 200.8 05/07/20 07:00 Client 05/07/20 Clie
4624165 rpb211 Sample 5th 200.8 05/08/20 04:14 Client 05/08/20 14:14 Client 05/08/20 14:

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature Title Date

Client Name: City of Benton Harbor

Report #: 485377

Sampling Point: rpb1 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed I D#											
7440-50-8	Copper	200.8	1300 !	1.0	9.4	ug/L		05/21/20 11:41	4624126		
7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		05/21/20 11:41	4624126		

Sampling Point: rpb2 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/21/20 11:44	4624127		
7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		05/21/20 11:44	4624127		

Sampling Point: rpb3 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	37	ug/L		05/21/20 11:51	4624128		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 11:51	4624128		

Sampling Point: rpb4 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date												
7440-50-8	Copper	200.8	1300 !	1.0	13	ug/L		05/21/20 11:53	4624129			
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L		05/21/20 11:53	4624129			

Sampling Point: rpb5 Sample 1st PWS ID: MI600

	Lead and Copper												
									EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	8.7	ug/L		05/21/20 11:55	4624130				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 11:55	4624130				

Sampling Point: rpb6 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed I D#											
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/21/20 11:58	4624131		
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/21/20 11:58	4624131		

Sampling Point: rpb7 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	3.2	ug/L		05/21/20 12:00	4624132		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:00	4624132		

Sampling Point: rpb8 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.4	ug/L		05/21/20 12:03	4624133		
7439-92-1	Lead	200.8	15 !	1.0	21	ug/L		05/21/20 12:03	4624133		

Sampling Point: rpb9 Sample 1st PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 12:05	4624134		
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		05/21/20 12:05	4624134		

Sampling Point: rpb10 Sample 1st PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/21/20 12:07	4624135			
7439-92-1	Lead	200.8	15 !	1.0	5.7	ug/L		05/21/20 12:07	4624135			

Sampling Point: rpb11 Sample 1st PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/21/20 12:15	4624136		
7439-92-1	Lead	200.8	15 !	1.0	9.2	ug/L		05/21/20 12:15	4624136		

Sampling Point: rpb12 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	6.4	ug/L		05/21/20 12:17	4624137			
7439-92-1	Lead	200.8	15 !	1.0	8.5	ug/L		05/21/20 12:17	4624137			

Sampling Point: rpb13 Sample 1st PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.1	ug/L		05/21/20 12:24	4624138		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:24	4624138		

Sampling Point: rpb15 Sample 1st PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	48	ug/L		05/21/20 12:26	4624139			
7439-92-1	Lead	200.8	15 !	1.0	6.2	ug/L		05/21/20 12:26	4624139			

Sampling Point: rpb16 Sample 1st PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/21/20 12:29	4624140			
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/21/20 12:29	4624140			

Sampling Point: rpb17 Sample 1st PWS ID: MI600

			Le	ad and (Copper				
								EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/21/20 12:31	4624141
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:31	4624141

Sampling Point: rpb18 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		05/21/20 12:33	4624142			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:33	4624142			

Sampling Point: rpb19 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units F								Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.2	ug/L		05/21/20 12:36	4624143			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:36	4624143			

Sampling Point: rpb20 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	5.4	ug/L		05/21/20 12:38	4624144			
7439-92-1	Lead	200.8	15 !	1.0	100	ug/L		05/21/20 12:38	4624144			

Sampling Point: rpb21 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyz									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	230	ug/L		05/21/20 12:41	4624145			
7439-92-1	Lead	200.8	15 !	1.0	3.5	ug/L		05/21/20 12:41	4624145			

Sampling Point: rpb1 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/21/20 12:53	4624146		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:53	4624146		

Sampling Point: rpb2 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/21/20 12:55	4624147			
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		05/21/20 12:55	4624147			

Sampling Point: rpb3 Sample 5th PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	9.6	ug/L		05/21/20 13:02	4624148		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:02	4624148		

Sampling Point: rpb4 Sample 5th PWS ID: MI600

	Lead and Copper												
								EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/21/20 13:04	4624149				
7439-92-1	Lead	200.8	15 !	1.0	3.4	ug/L		05/21/20 13:04	4624149				

Sampling Point: rpb5 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	8.3	ug/L		05/21/20 13:07	4624150		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/21/20 13:07 46											

Sampling Point: rpb6 Sample 5th PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		05/21/20 13:09	4624151			
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		05/21/20 13:09	4624151			

Sampling Point: rpb7 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 13:12	4624152			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:12	4624152			

Sampling Point: rpb8 Sample 5th PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		05/21/20 13:14	4624153			
7439-92-1	Lead	200.8	15 !	1.0	4.2	ug/L		05/21/20 13:14	4624153			

Sampling Point: rpb9 Sample 5th PWS ID: MI600

	Lead and Copper												
								EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	4.4	ug/L		05/21/20 13:16	4624154				
7439-92-1	Lead	200.8	15 !	1.0	7.9	ug/L		05/21/20 13:16	4624154				

Sampling Point: rpb10 Sample 5th PWS ID: MI600

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/21/20 13:19	4624155			
7439-92-1	Lead	200.8	15 !	1.0	14	ug/L		05/21/20 13:19	4624155			

Sampling Point: rpb11 Sample 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/21/20 13:26	4624156
7439-92-1	Lead	200.8	15 !	1.0	23	ug/L		05/21/20 13:26	4624156

Sampling Point: rpb12 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/21/20 13:28	4624157		
7439-92-1 Lead 200.8 15! 1.0 5.3 ug/L 05/21/20 13:28 46											

Sampling Point: rpb13 Sample 5th PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/21/20 13:35	4624158			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:35	4624158			

Sampling Point: rpb15 Sample 5th PWS ID: MI600

	Lead and Copper												
								EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	50	ug/L		05/21/20 13:38	4624159				
7439-92-1	Lead	200.8	15 !	1.0	4.3	ug/L		05/21/20 13:38	4624159				

Sampling Point: rpb16 Sample 5th PWS ID: MI600

Lead and Copper												
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 13:40	4624160			
7439-92-1 Lead 200.8 15! 1.0 1.3 ug/L 05/21/20 13:40 46												

Sampling Point: rpb17 Sample 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	5.1	ug/L		05/21/20 13:42	4624161
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:42	4624161

Sampling Point: rpb18 Sample 5th PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		05/21/20 13:45	4624162
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:45	4624162

Sampling Point: rpb19 Sample 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		05/21/20 13:47	4624163
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:47	4624163

Sampling Point: rpb20 Sample 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.0	ug/L		05/21/20 13:50	4624164
7439-92-1	Lead	200.8	15 !	1.0	5.3	ug/L		05/21/20 13:50	4624164

Sampling Point: rpb211 Sample 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	20	ug/L		05/21/20 13:52	4624165
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L		05/21/20 13:52	4624165

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order #398853

Batch # 48537

www.EurofinsUS.com/Eaton					CHAIN OF	CHAIN OF CLISTODY RECORD	RD		Page	-	of 2	
Shaded area for EEA use only	EEA use of	nly		The state of the s		2000				1	+	-
REPORT TO:			U)	SAMPLER (Signature)		# OI SMd	STATE (sample origin)	PROJECT NAME	#0d	T	-	L
			2	Mike O'Malley		009	W	Lead Copper RPB				3
Mike O'Mailey, momailey@cityotbentorina.	arborni, gov			Yes	No	POPULATION SERVED	SOURCE WATER	2nd round May 5 to	S05112		67I	MIT
Mountley & whiche who who he was the you	- heathark	ر مالد المعالم	Ja C	COMPLIANCE MONITORING Yes		669'6	Lake Michigan	May 8 2020		3111V±111	CODE	T GNUOF
LAB Number	COLL	COLLECTION		SAMPLING SITE		TEST NAME	IME	SAMPLE REMARKS	CHLORINATED		Name of	IANA
	DATE	TIME AM	PM						YES	ON	-	UT
Julian 126	-		×	rpb1 sample 1st; sample 5th		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	SW
127		6:28 PM				Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
38		8:45 AM		-		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS I
9C1	-	9:20 PM		1		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
120		6:28 PM	1	-		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS I
an a	-	8:30 AM ×	1	1		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	ws 1
t21	-	6:45 AM ×				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
133	-	-				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	WS /
3	-	-				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
25	-	-	-	sample 1st		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
(26)	-		-			Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
127		7:40 AM ×	-			Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS I
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-				Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
1201	H		-			Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	SW
RELINOUISHED BY (Signature)		DATE TII	TIME	RECEIVED BY:(Signature)	DATE	TIME	LAB RESRRVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT	ISED PORTIONS OF NON	-AQUEOU\$ SAMP	PLES TO C	JENT	
		_ 3	AM PM	Aron Mula	5/11/20	10:54 AW PM	* BOCKLE THAT RPBS STY CLOWD DENNERS OF	5th chow , Dample os 1100	ST C 4	J. F.	Sing	200
RELINCUISHED 61/(Signature)	\ <u>\</u>	S/11/2 10:	TIME R	RECEIVED BY:(Signature)	DATE	TIME CLOUD ANI PM	me P P B4	T per PM	PM	20K	0	
RELINQUISHED BY:(Signature)		DATE TII	TIME	RECEIVED FOR LABORATORY BY:	DATE		RECEIPT (check one):				(
		AM	AM PM	Kane 6	511-2020	AM PM	loed: Wet/Blue Ambient	°C Upor	°C Upon Receipt		N/A	
MATRIX CODES:	7.	IRN-AROUND	TIME C	TURN-AROUND TIME (TAT) - SURCHARGES								
DW-DRINKING WATER	SW	SW = Standard Written: (15 working days)	en: (15 wc	orking days) 0%	IV* = Immedia	W = Immediate Verbal: (3 working days) 100%						

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

125% 100%

IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days)

%0 20%

RV* = Rush Verbal: (5 working days)

DW-DRINKING WATER
RW-REAGRYT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFOCE WATER
PW-POOL WATER
WW-WASTE WATER

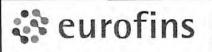


110 S. Hill Street

Order # Batch #

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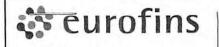
3 M × 57 35 TURNAROUND TIME 37 35 SW SW SW SW SW SW 2 MATRIX CODE LAB RESERVES THE RIGHT TO RETURN UNISED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT NA ō # OF CONTAINERS N Samples received unannounced with less CHLORINATED ON N 2 S05112 #0d Page YES Yes Yes Yes Yes Yes Yes C Upon Receipt Lead Copper RPB 2nd round May 5 to May 8 2020 SAMPLE REMARKS STATE (sample origin) PROJECT NAME SOURCE WATER Ambient Lake Michigan CONDITIONS UPON RECEIPT (check one): Ξ Lead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw Lead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw loed: Wet/Blue CHAIN OF CUSTODY RECORD *IEST NAME* 100% 125% POPULATION SERVED -LAB COMMENTS PWS ID# IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days) 9,639 600 5501 55.2 AM PM AM PM AM PM TIME TIME 120 DATE DATE DATE 2 SAMPLING SITE Yes Yes RECEIVED FOR LABORATORY BY: sample 1st; sample 5th RECEIVED BY:(Signature) RECEIVED BY:(Signature) TURN-AROUND TIME (TAT) - SURCHARGES SAMPLER (Signature) COMPLIANCE %0 %09 Mike O'Malley SW = Standard Written: (15 working days) rpb18 rpb20 rpb21 rpb16 rpb17 rpb19 RV* = Rush Verbal: (5 working days) TIME 10:55 AM PM AM PM AM 11/20 3 COLLECTION 7:00 AM 7:00 AM 8:00 AM TIME 7:45 AM 2:30 PM 4:14 AM Shaded area for EEA use only Mike O'Malley, momalley@cityofbentonharbormi.gov BILL TO: DATE 5/7/20 5/7/20 5/7/20 5/5/20 5/7/20 5/8/20 DW-DRINKING WATER WR-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER RELINQUISHED BY (Signature) RELINQUISHED BY: (Signature) awade@cityofbentonharbormi.gov Signature MATRIX CODES: www.EurofinsUS.com/Eaton いて 22 42 (7) 5 LAB Number 3 र्षिश्र REPORT TO: RELINQUISH 10 7 12 13 9 8 6 m 4 S



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06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

F: 1.574.233.8207 www.EurofinsUS.com/Eaton CHAIN OF CUSTODY RECORD Page Shaded area for EEA use only REPORT TO: SAMPLER (Signature) STATE (sample origin) PROJECT NAME PO# PWS ID# Mike O'Malley 600 MI Mike O'Malley, momalley@cityofbentonharbormi.gov Lead Copper RPB POPULATION SERVED Yes No SOURCE WATER OF CONTAINERS 2nd round May 5 to S05112 Manuelley E estystbenton hurbarui. por May 8 2020 COMPLIANCE TURNAROUND MATRIX CODE MONITORING 9.639 Yes Lake Michigan awade@cityofbentonharbormi.gov COLLECTION CHLORINATED LAB Number SAMPLING SITE TEST NAME SAMPLE REMARKS DATE TIME AM PM YES NO # Yes 2 SW SW 6:28 PM 5/6/20 rob1 sample 1st: sample 5th Lead and Copper 1st draw and 5th Draw Yes 2 SW SW 5/6/20 6:28 PM sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw Yes 2 SW SW 8:45 AM sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw 5/7/20 40 Yes 2 SW SW sample 1st; sample 5th 5/6/20 9:20 PM Lead and Copper 1st draw and 5th Draw Yes 2 SW SW 6:28 PM Lead and Copper 1st draw and 5th Draw 5/6/20 rpb5 sample 1st; sample 5th Yes 2 SW SW Lead and Copper 1st draw and 5th Draw 5/8/20 8:30 AM sample 1st; sample 5th Yes 2 SW SW sample 1st: sample 5th Lead and Copper 1st draw and 5th Draw 5/7/20 6:45 AM Yes 2 SW SW Lead and Copper 1st draw and 5th Draw 8 5/7/20 8:00 AM sample 1st; sample 5th Yes 2 SW SU SW 5/7/20 9:37 AM sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw Yes 2 SW SW 5/7/20 10:43 AM sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw Yes 2 SW SW 5/7/20 6:40 AM rpb11 sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw Yes SW 2 SW Lead and Copper 1st draw and 5th Draw 7:40 AM sample 1st; sample 5th 5/7/20 2 SW SW 7:20 AM sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw 5/7/20 Yes 2 SW SW sample 1st; sample 5th Lead and Copper 1st draw and 5th Draw 5/7/20 6:00 AM DATE TIME RECEIVED BY: (Signature) DATE TIME RELINQUISHED BY (Signature) LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT LAB COMMENTS * Bookle has RPB5 5th ahow, Sample osnow was in the bag with RPB4 (187) 100 5/11/20 AM) PM TIME DATE DATE RECEIVED BY:(Signature) RELINQUISHED BY: (Signature) AM PM DATE TIME RECEIVED FOR LABORATORY BY: RELINQUISHED BY: (Signature) CONDITIONS UPON RECEIPT (check one). 511/2020 105 Iced: Wet/Blue ____ Ambient °C Upon Receipt AM PM TURN-AROUND TIME (TAT) - SURCHARGES **MATRIX CODES:** IV* = Immediate Verbal: (3 working days) SW = Standard Written: (15 working days) DW-DRINKING WATER RW-REAGENT WATER IW* =Immediate Written: (3 working days) 125% 50% RV* = Rush Verbal: (5 working days) Samples received unannounced with less GW-GROUND WATER than 48 hours holding time remaining SP* = Weekend, Holiday CALL EW-EXPOSURE WATER RW* = Rush Written: (5 working days) 75% may be subject to additional charges SW-SURFACE WATER STAT* = Less than 48 hours CALL PW-POOL WATER WW-WASTE WATER Please call, expedited service not available for all testing



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Order #	
Patch #	

ww.EurofinsUS.com/Eaton Shaded area	for EFA use	e only	1	0.04 ti		CH	IAIN OF	CUSTODY REC	ORD		Page	2	of	2	
PORT TO:	U. LLA US			SAME	LER (Signature	e)		PWS ID#	STATE (sample origin)	PROJECT NAME	þ	O#			T
				Mike O	'Malley			600	MI	Land Conner BBB					١.
ke O'Malley, momalley@cityofbent	onnarbormi.gov			-		Yes	No	POPULATION SERVED	SOURCE WATER	Lead Copper RPB 2nd round May 5 to	SQS	5112	SS		
ade@cityofbentonharbormi.gg	v.				MPLIANCE	Yes		9,639	Lake Michigan	May 8 2020			CONTAINERS	CODE	
LAB Number		OLLECTION	I AM	DM	S	SAMPLING SITE		TEST	NAME	SAMPLE REMARKS	CHLOR	RINATED	P.	MATRIX	
4624 160	DATE 5/7/20	7:00 AM	AM x	rpb16	sample 1st; s	ample 5th		Lead and Copper 1st draw an	d 5th Draw		Yes	NO	# 2	SW	1
161	5/7/20	7:45 AM	×	rpb17	sample 1st; s			Lead and Copper 1st draw an			Yes		2	sw	1
1/62	5/7/20	8:00 AM	×	rpb18	sample 1st; sa			Lead and Copper 1st draw an	East and a second		Yes		2	sw	1
1 163	5/5/20	2:30 PM	1	x rpb19	sample 1st; s			Lead and Copper 1st draw an	Law -		Yes		2	sw	1
1, 164	5/7/20	7:00 AM	×	rpb20	sample 1st; sa	and the second		Lead and Copper 1st draw an	The second second		Yes		2	sw	1
1/ 1105	5/8/20	4:14 AM	1	x rpb21	sample 1st; sa			Lead and Copper 1st draw an	The same of the sa		Yes		2	sw	1
ELINQUISHED BY: (Signature		DATE DATE	AMI	PM RECE	IVED BY:(Sign	Talen	DATE S/11/20 DATE		SERVES THE RIGHT TO RETURN UN	USED PORTIONS OF NON-	AQUEOU\$	SAMPLES	TO CLIENY	T	
MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER		SW = Standar RV* = Rush Ve RW* = Rush W	AM DUND AM Written: (5 Written: (5	PM RECE PM TIME (TAT i: (15 working days) working days)	VED FOR LABO O - SURCHARO Jays) 0% 50% 75% Ce not available	GES S		te Verbal: (3 working days) te Written: (3 working days) 1009 1259 1259 126, Holiday	6 ALL	Samples received unathan 48 hours holding may be subject to additionable to ad	nnounced time rema tional cha	with less ining rges	N/A		



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at $(800)\ 332-4345$ or $(574)\ 233-4777$.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: Benton Harbor, City of Report: 486115

Attn: Michael O'Malley Priority: Standard Written

200 East Wall Street Status: Final Benton Harbor, MI 49002 PWS ID: MI600

	Sa	mple Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4629473	RPC 1 Sample 1st Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629474	RPC 2 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629475	RPC 3 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629476	RPC 4 Sample 1st Draw	200.8	05/13/20 16:00	Client	05/18/20 13:50
4629477	RPC 5 Sample 1st Draw	200.8	05/13/20 22:00	Client	05/18/20 13:50
4629478	RPC 6 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629479	RPC 7 Sample 1st Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629480	RPC 8 Sample 1st Draw	200.8	05/14/20 06:30	Client	05/18/20 13:50
4629481	RPC 9 Sample 1st Draw	200.8	05/14/20 04:00	Client	05/18/20 13:50
4629482	RPC 10 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629483	RPC 11 Sample 1st Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629484	RPC 12 Sample 1st Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629485	RPC 13 Sample 1st Draw	200.8	05/13/20 21:30	Client	05/18/20 13:50
4629486	RPC 14 Sample 1st Draw	200.8	05/14/20 07:30	Client	05/18/20 13:50
4629487	RPC 15 Sample 1st Draw	200.8	05/13/20 07:05	Client	05/18/20 13:50
4629488	RPC 16 Sample 1st Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629489	RPC 17 Sample 1st Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629490	RPC 1 Sample 5th Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629491	RPC 2 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629492	RPC 3 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629493	RPC 4 Sample 5th Draw	200.8	05/13/20 16:00	Client	05/18/20 13:50
4629494	RPC 5 Sample 5th Draw	200.8	05/13/20 22:00	Client	05/18/20 13:50
4629495	RPC 6 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629496	RPC 7 Sample 5th Draw	200.8	05/14/20 08:00	Client	05/18/20 13:50
4629497	RPC 8 Sample 5th Draw	200.8	05/14/20 06:30	Client	05/18/20 13:50
4629498	RPC 9 Sample 5th Draw	200.8	05/14/20 04:00	Client	05/18/20 13:50
4629499	RPC 10 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629500	RPC 11 Sample 5th Draw	200.8	05/14/20 06:00	Client	05/18/20 13:50
4629501	RPC 12 Sample 5th Draw	200.8	05/14/20 07:00	Client	05/18/20 13:50
4629502	RPC 13 Sample 5th Draw	200.8	05/13/20 21:30	Client	05/18/20 13:50
4629503	RPC 14 Sample 5th Draw	200.8	05/14/20 07:30	Client	05/18/20 13:50

4629504	RPC 15 Sample 5th Draw	200.8	05/13/20 07:05	Client	05/18/20 13:50
4629505	RPC 16 Sample 5th Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50
4629506	RPC 17 Sample 5th Draw	200.8	05/13/20 07:30	Client	05/18/20 13:50

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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Authorized Signature Title Date

Client Name: Benton Harbor, City of

Report #: 486115

Sampling Point: RPC 1 Sample 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	10	ug/L		05/26/20 15:26	4629473		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 15:26	4629473		

Sampling Point: RPC 2 Sample 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		05/26/20 15:28	4629474		
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/26/20 15:28	4629474		

Sampling Point: RPC 3 Sample 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/26/20 15:31	4629475		
7439-92-1	Lead	200.8	15 !	1.0	1.5	ug/L		05/26/20 15:31	4629475		

Sampling Point: RPC 4 Sample 1st Draw PWS ID: MI600

	Lead and Copper										
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.4	ug/L		05/26/20 15:34	4629476		
7439-92-1	Lead	200.8	15 !	1.0	29	ug/L		05/26/20 15:34	4629476		

Sampling Point: RPC 5 Sample 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	3.2	ug/L		05/26/20 15:37	4629477		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 15:37	4629477		

Sampling Point: RPC 6 Sample 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	18	ug/L	05/21/20 09:55	05/22/20 12:47	4629478		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	05/21/20 09:55	05/22/20 12:47	4629478		

Sampling Point: RPC 7 Sample 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/26/20 15:39	4629479		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 15:39	4629479		

Sampling Point: RPC 8 Sample 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	9.1	ug/L		05/26/20 15:48	4629480		
7439-92-1	Lead	200.8	15 !	1.0	1.5	ug/L		05/26/20 15:48	4629480		

Sampling Point: RPC 9 Sample 1st Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.3	ug/L		05/26/20 15:56	4629481			
7439-92-1	Lead	200.8	15 !	1.0	22	ug/L		05/26/20 15:56	4629481			

Sampling Point: RPC 10 Sample 1st Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 15:59	4629482			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 15:59	4629482			

Sampling Point: RPC 11 Sample 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	7.8	ug/L		05/26/20 16:01	4629483		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:01	4629483		

Sampling Point: RPC 12 Sample 1st Draw PWS ID: MI600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	5.0	ug/L		05/26/20 16:04	4629484	
7439-92-1	Lead	200.8	15 !	1.0	2.2	ug/L		05/26/20 16:04	4629484	

Sampling Point: RPC 13 Sample 1st Draw PWS ID: MI600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/26/20 16:07	4629485	
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:07	4629485	

Sampling Point: RPC 14 Sample 1st Draw PWS ID: MI600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 16:10	4629486	
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:10	4629486	

Sampling Point: RPC 15 Sample 1st Draw PWS ID: MI600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	36	ug/L		05/26/20 16:12	4629487	
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L		05/26/20 16:12	4629487	

Sampling Point: RPC 16 Sample 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	3.7	ug/L		05/26/20 16:15	4629488			
7439-92-1	Lead	200.8	15 !	1.0	44	ug/L		05/26/20 16:15	4629488			

Sampling Point: RPC 17 Sample 1st Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 16:18	4629489			
7439-92-1 Lead 200.8 15! 1.0 6.4 ug/L 05/26/20 16:18 46												

Sampling Point: RPC 1 Sample 5th Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed ID#								Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/26/20 16:32	4629490		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:32	4629490		

Sampling Point: RPC 2 Sample 5th Draw PWS ID: MI600

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/26/20 16:40	4629491			
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		05/26/20 16:40	4629491			

Sampling Point: RPC 3 Sample 5th Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 16:43	4629492			
7439-92-1	Lead	200.8	15 !	1.0	1.5	ug/L		05/26/20 16:43	4629492			

Sampling Point: RPC 4 Sample 5th Draw PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/26/20 16:45	4629493			
7439-92-1 Lead 200.8 15! 1.0 11 ug/L 05/26/20 16:45 462												

Sampling Point: RPC 5 Sample 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 16:48	4629494		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/26/20 16:48 4											

Sampling Point: RPC 6 Sample 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Ana								Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	14	ug/L		05/26/20 16:51	4629495			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:51	4629495			

Sampling Point: RPC 7 Sample 5th Draw PWS ID: MI600

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.8	ug/L		05/26/20 16:54	4629496		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:54	4629496		

Sampling Point: RPC 8 Sample 5th Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/26/20 16:56	4629497			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:56	4629497			

Sampling Point: RPC 9 Sample 5th Draw PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.5	ug/L		05/26/20 16:59	4629498			
7439-92-1	Lead	200.8	15 !	1.0	18	ug/L		05/26/20 16:59	4629498			

Sampling Point: RPC 10 Sample 5th Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 17:02	4629499			
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/26/20 17:02 46												

Sampling Point: RPC 11 Sample 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/26/20 17:10	4629500
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 17:10	4629500

Sampling Point: RPC 12 Sample 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		05/26/20 17:19	4629501
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/26/20 17:19	4629501

Sampling Point: RPC 13 Sample 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 17:21	4629502
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 17:21	4629502

Sampling Point: RPC 14 Sample 5th Draw

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/26/20 17:24	4629503
7439-92-1	Lead	200.8	15 !	1.0	8.3	ug/L		05/26/20 17:24	4629503

PWS ID: MI600

Sampling Point: RPC 15 Sample 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 17:27	4629504
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		05/26/20 17:27	4629504

Sampling Point: RPC 16 Sample 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		05/26/20 17:30	4629505
7439-92-1	Lead	200.8	15 !	1.0	81	ug/L		05/26/20 17:30	4629505

Sampling Point: RPC 17 Sample 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		05/26/20 17:32	4629506
7439-92-1	Lead	200.8	15 !	1.0	4.3	ug/L		05/26/20 17:32	4629506

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch #

Order #3 6

SW SW. SW SW. SW. 2 **MATRIX CODE** of 2 # OF CONTAINERS 8 2 2 2 2 2 7 2 2 2 7 7 7 CHLORINATED ON -SQ5119 #Og YES Page × × × SAMPLE REMARKS Lead and Copper 1st Half 2020 PROJECT NAME 1st and 5th STATE (sample origin) SOURCE WATER Lake Michigan Ξ CHAIN OF CUSTODY RECORD ead and Copper 1st Draw & 5th Draw Lead and Copper 1st Draw & 5th Draw Lead and Copper 1st Draw & 5th Draw ead and Copper 1st Draw & 5th Draw Lead and Copper 1st Draw & 5th Draw **TEST NAME** POPULATION SERVED # OI SMd 9,639 S ようとす SAMPLING SITE res RPC 11 Sample 1st Draw & 5th Draw RPC 13 Sample 1st Draw & 5th Draw RPC 14 Sample 1st Draw & 5th Draw RPC 10 Sample 1st Draw & 5th Draw RPC 12 Sample 1st Draw & 5th Draw RPC 3 Sample 1st Draw & 5th Draw RPC 4 Sample 1st Draw & 5th Draw RPC 5 Sample 1st Draw & 5th Draw RPC 6 Sample 1st Draw & 5th Draw RPC 8 Sample 1st Draw & 5th Draw RPC 9 Sample 1st Draw & 5th Draw RPC 2 Sample 1st Draw & 5th Draw RPC 7 Sample 1st Draw & 5th Draw RPC 1 Sample 1st Draw & 5th Draw SAMPLER (Signature) Manuelley & city of bentound by minonitoring Mike-O'Walley PM AM 7:30 AM 8:00 AM 8:00 AM 6:00 AM 7:00 AM 6:00 AM 6:30 AM 4:00 AM 7:00 AM 6:00 AM 7:00 AM COLLECTION 4:00 PM 10:00 PM 9:30 PM TIME Shaded area for EEA use only Mike O'Malley, momalley@cityofbentonharbormi.gov BILL TO: 05/13/20 05/13/20 05/13/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 05/14/20 280 584 202 187 たい 847 475 544 087 482 483 JS.C. III./E.IL 18 してのかのかり LAB Number REPORT TO: 10 12 14 8 6 11 13 2 S 9

3

TURNAROUND TIME

3 M. M. * * **%** W.

M\$ * * * M\$ #M

	DATE IN RECEIVED BY: (Signature)			LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	ED PORTIONS OF NON-AGUECOS SAMPLES TO CLIENT
	5/5/20		LAB COMMENTS	ENTS	
	AM PM	AM	AM PM		
RELINCUISHED/BY:(Signature)	DATE TIME RECEIVED BY:(Signature)	DATE TII	TIME		
JAN 1	SI JOHN BY	1/15/17	R		
12/2/26	5/18/20 AM PM / 2000	J 10 AM	AM PM		
RELINQUISHED BY:(Signature)	DATE TIME RECEIVED FOR LABORATORY BY:	DATE TII	TIME CONDITIONS	CONDITIONS UPON RECEIPT (check one):	
		(3) 20cm (3)	(38)	Iced: Wet/Blue	°C Upon Receipt
	AM PM	AM	PM		
MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES				
DW-DRINKING WATER	SW = Btandard Written: (15 working days) 0%	IV* = Immediate Verbal: (3 working days)	I: (3 working days)	100%	
RW-REAGENT WATER	RV* = Rush Verbal: (5 working days) 50%	IW* =Immediate Written: (3 working days)	n: (3 working days)	125%	Hittple a received urmin-will with less
EW-EXPOSURE WATER	RW* = Rush Written: (5 working days) 75%	SP* = Weekend, Holiday	ay	CALL	than 48 hours bolining lime saining
SW-SURFACE WATER PW-POOL WATER		STAT* = Less than 48 hours	hours	CALL	
WW-WASTE WATER	Ples a call, expedited service not available for all testing			80	06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order # Batch #

finsUS	.com/Eaton Shaded area for EEA use only			OFC	CHAIN OF CUSTODY RECORD	ORD		Page 2	of	2	,
REPORT TO:		SAMPLER (Signature)	(6		PWS ID#	STATE (sample origin)	PROJECT NAME	#0 _d			l
asise Ostalias, momalias@ellsahodadadadami nov	aharbormi nov	Mike O'Malley	Restdents w/	0	009	M					1
BILL TO:	all all borning government of the state of t		Yes	No	POPULATION SERVED	SOURCE WATER	Lead and Copper	805119	SS		ILLUE
Mortalley Ochy of benton harbornia	sentos herborais, gos	COMPLIANCE	×		9,639	Lake Michigan	1st Haif 2020		HEINER	CODE	ם מאטט
LAB Number	COLLECTION	S	SAMPLING SITE		TEST NAME	AME	SAMPLE REMARKS	CHLORINATED		ХІЯТ	HHIM
	DATE TIME AM PM							YES NO	0#	AM	TUT
1 4629 487	05/13/20 7:05 AM ×	RPC 15 Sample 1st Draw	w & 5th Draw	-1	Lead and Copper 1st Draw & 5th Draw	h Draw	1st and 5th	×	2	sw	, ₹
2 488	05/13/20 7:30 AM ×	RPC 16 Sample 1st Draw	w & 5th Draw		Lead and Copper 1st Draw & 5th Draw	h Draw	1st and 5th	×	2	SW	,,,
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RELINQUISHED BY:(Signature)	DATE TIME SISTEMBRIDE DATE TIME AMI PM SISTEMBRIDE TIME TIME TAME TAM	RECEIVED BY:(Signature)		DATE DATE	TIME LAB COMMENTS FIME TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOW-AQUEOUS, SAMPLES TO CLIENT HENTS	ISED PORTIONS OF NOWA	ACUEOUS SAMPLES	TO CLIENT		
RELINQUISHED BY:(Signature)		RECEIVED FOR LABORATORY BY	TORY BY:	DATE STON		CONDITIONS UPON RECEIPT (check one):	°C Upon Receipt	3eceipt	(§		
MATRIX CODES: DW-DRINKING WATER	TURN-AROUND TIME (TAT) - S SW = Standard Written: (15 working days)	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0%		: Immediate Ve	IV* = Immediate Verbal: (3 working days) 100%						
RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER		ing days) 50% rking days) 75%	IW** SP**	W* = Immediate Written: (3 w SP* = Weekend, Holiday STAT* = Less than 48 hours			Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.	nounced with less ime remaining ional charges.			
WW-WASTE WATER	* Please call, expedite	* Please call, expedited service not available for all testing					06-LO-F0435 Issue 6.0	.0 Efective Date: 2016-09-20	le: 2016-0	9-20	- }
Sample analysis will be provided at	Sample analysis will be provided according to the standard FEA/Water Services Terms, which are	Services Terms, which an		v other term	available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressive agreed to in writing the	doemed material atteration	III hara raiacted III	Viagorarya sagin	of poorne	in writing	4

9EEA.



Eaton Aralytical

South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 110 S. Hill Street

Order#39938 Batch # 18 10/19

1.45.com/Ent				CHAIN	CHAIN OF CLISTODY RECORD	ua		Page 1	jo	2	
Shaded area for EEA use only	for EEA use	only			design reso	2	S. Charles S. C.	200	5		
REPORT TO:			SAMPLER (Signature)	()	# OI SMA	STATE (sample origin)	PROJECT NAME	#O _d			
Mic Oldalia, monallas/Prit, abadaatarbami nas	ion important		Mike-O'Malley	Richard M	009	¥					- 2
BILL TO:	dinament and an area			Yes V No	POPULATION SERVED	SOURCE WATER	Lead and Copper	S05119	SA		וענפ
Mome (ley & City of toe whom her	atoto	se who who be	COMPLIANCE MONITORING		689'6	Lake Michigan	181 181		IBNIATNO	CODE	מטטטצ ד
LAB Number	ŏ	COLLECTION		SAMPLING SITE	TEST NAME	ME	SAMPLE REMARKS	CHLORINATED)E CC		ANA
	DATE	TIME AM PM				(YES NO	D #		UI.
1 4629 490	05/14/20	8:00 AM ×	RPC 1 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw :	×.
1941	05/14/20	6:00 AM ×	RPC 2 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw s	Mg.
Cbh 6	05/14/20	7:00 AM ×	RPC 3 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw :	*
4 493	05/13/20		x RPC 4 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw s	À.
F 1944	05/13/20	10:00 PM	x RPC 5 Sample 1st Draw & 5th Draw	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	M.
56)7	05/14/20	6:00 AM ×	RPC 6 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	SW	M#
2 C196	05/14/20	8:00 AM ×	RPC 7 Sample 1st Draw & 5th Draw	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	Me.
8 L44J	05/14/20	6:30 AM ×	RPC 8 Sample 1st Draw & 5th Draw	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	M.
85h	05/14/20	4:00 AM ×	RPC 9 Sample 1st Draw & 5th	& 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	M#
10 Hdd	05/14/20	7:00 AM ×	RPC 10 Sample 1st Draw & 5th Draw	w & 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	W.
200	05/14/20	6:00 AM ×	RPC 11 Sample 1st Draw & 5th Draw	w & 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	W.
12 7 501	05/14/20	7:00 AM ×	RPC 12 Sample 1st Draw & 5th Draw	w & 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw s	**
13 // 503	05/13/20	9:30 PM	x RPC 13 Sample 1st Draw & 5th Draw	w & 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	sw	**
14 11 503	05/14/20	7:30 AM ×	RPC 14 Sample 1st Draw & 5th Draw	w & 5th Draw	Lead and Copper 1st Draw & 5th Draw	Draw	1st and 5th	×	2	SW.	À
RELINQUISHED BY:(Signature)	(e	DATE TIME	TIME RECEIVED BY: (Signature)	ature) DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	JSED PORTIONS OF NON-	AQUEOUS SAMPLES T	OCLIENT	ĺ	T
		5/15/27			LAB COMMENTS					13	
RELINQUISHED/BY:(Signature)	00	DATE TIME	TIME RECEIVED BY:(Signature)	ature) DATE	E TIME						

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20

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Sen ples received union that A8 hours holim gitter in a saidte

CALL CALL

125% 100%

IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days)

STAT* = Less than 48 hours

Piece o call, expedited service act available for all testing

SP* = Weekend, Holiday

N/A

°C Upon Receipt

Iced: Wet/Blue Ambient

138

218-20cm

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES:

AM PM

SW = Standard Written: (15 working days) 0%

RW = Rush Written: (5 working days). RV* = Rush Verbal: (5 working days)

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
PW-POOL WATER
PW-POOL WATER
WW-WASTE WATER

Page 15 o

20%

AM PM

AM PM

TIME

DATE

RECEIVED FOR LABORATORY BY:

AM PM B

5/18/20

RELINQUISHED BY: (Signature).

CONDITIONS UPON RECEIPT (check one):



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Eaton Analytical

110 S. Hill Street

Batch #_

Order #

South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

MS. MS. NS. אוו מאטטאאאאטן. SW SW SW 2 MATRIX CODE LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT 2 o # OF CONTAINERS ~ CHLORINATED YES NO S05119 #0g Page × × × SAMPLE REMARKS Lead and Copper 1st Half 2020 PROJECT NAME 1st and 5th 1st and 5th 1st and 5th STATE (sample origin) SOURCE WATER Lake Michigan Ξ CHAIN OF CUSTODY RECORD Lead and Copper 1st Draw & 5th Draw Lead and Copper 1st Draw & 5th Draw Lead and Copper 1st Draw & 5th Draw *TEST NAME* POPULATION SERVED PWS ID# 9,639 900 TIME DATE 8 3 Restdents SAMPLING SITE Yes × RPC 16 Sample 1st Draw & 5th Draw RPC 17 Sample 1st Draw & 5th Draw RPC 15 Sample 1st Draw & 5th Draw RECEIVED BY:(Signature) SAMPLER (Signature) COMPLIANCE Mike O'Malley M Mary albenton herborning AM 7:30 AM COLLECTION 7:05 AM 7:30 AM TIME Shaded area for EEA use only Mike O'Malley, momalley@cityofbentonharbormi.gov DATE 05/13/20 05/13/20 05/13/20 hature) awade@cityofbentonharbgrmi.gov とつい Son LAB Number 番 7429 REPORT TO: RELINQUIS BILL TO: m N

N/A °C Upon Receipt. Ambient CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue 100% LAB COMMENTS IV* = Immediate Verbal: (3 working days) 1350 AM PM TIME M PM 222-81 DATE DATE RECEIVED FOR LABORATORY BY: RECEIVED BY:(Signature) TURN-AROUND TIME (TAT) - SURCHARGES %0 SW = Standard Written: (15 working days) AM PM AM PM AM PM TIME 15 2 DATE 5 8/18 DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) MATRIX CODES

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by 06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20 Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining

may be subject to additional charges

CALL CALL

125%

IW* =Immediate Written: (3 working days)

STAT* = Less than 48 hours

SP* = Weekend, Holiday

RW* = Rush Written: (5 working days) RV* = Rush Verbal: (5 working days)

Page 16 of



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: Benton Harbor, City of Report: 488775

Attn: Michael O'Malley Priority: Standard Written

200 East Wall Street Status: Final Benton Harbor, MI 49002 PWS ID: MI600

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4651648	RPd 1 1st	200.8	06/09/20 17:15	Client	06/17/20 09:55
4651649	RPd 2 1st	200.8	06/10/20 07:45	Client	06/17/20 09:55
4651650	RPd 3 1st	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651651	RPd 4 1st	200.8	06/10/20 08:30	Client	06/17/20 09:55
4651652	RPd 5 1st	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651653	RPd 6 1st	200.8	06/10/20 04:00	Client	06/17/20 09:55
4651654	RPd 7 1st	200.8	06/10/20 08:00	Client	06/17/20 09:55
4651655	RPd 1 5th	200.8	06/09/20 17:18	Client	06/17/20 09:55
4651656	RPd 2 5th	200.8	06/10/20 07:45	Client	06/17/20 09:55
4651657	RPd 3 5th	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651658	RPd 4 5th	200.8	06/10/20 08:30	Client	06/17/20 09:55
4651659	RPd 5 5th	200.8	06/10/20 07:00	Client	06/17/20 09:55
4651660	RPd 6 5th	200.8	06/10/20 04:00	Client	06/17/20 09:55
4651661	RPd 7 5th	200.8	06/10/20 08:00	Client	06/17/20 09:55

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

Report Summary

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature Title Date

Client Name: Benton Harbor, City of

Report #: 488775

Sampling Point: RPd 1 1st PWS ID: MI600

Lead and Copper												
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		06/23/20 20:14	4651648			
7439-92-1	Lead	200.8	15 !	1.0	23	ug/L		06/23/20 20:14	4651648			

Sampling Point: RPd 2 1st PWS ID: MI600

	Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	33	ug/L		06/23/20 20:17	4651649					
7439-92-1	Lead	200.8	15 !	1.0	3.4	ug/L		06/23/20 20:17	4651649					

Sampling Point: RPd 3 1st PWS ID: MI600

	Lead and Copper													
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	45	ug/L		06/23/20 20:20	4651650					
7439-92-1	Lead	200.8	15 !	1.0	11	ug/L		06/23/20 20:20	4651650					

Sampling Point: RPd 4 1st PWS ID: MI600

	Lead and Copper												
									EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	5.6	ug/L		06/23/20 17:42	4651651				
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L		06/23/20 17:42	4651651				

Sampling Point: RPd 5 1st PWS ID: MI600

	Lead and Copper													
Analyte Analyte Method Reg Limit Result Units Preparation Analyzed Date									EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	3.9	ug/L		06/23/20 17:45	4651652					
7439-92-1	Lead	200.8	15 !	1.0	1.4	ug/L		06/23/20 17:45	4651652					

Sampling Point: RPd 6 1st PWS ID: MI600

Lead and Copper												
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	2.2	ug/L		06/23/20 17:53	4651653			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		06/23/20 17:53	4651653			

Sampling Point: RPd 7 1st PWS ID: MI600

Lead and Copper													
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date													
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		06/23/20 17:56	4651654				
7439-92-1	Lead	200.8	15 !	1.0	17	ug/L		06/23/20 17:56	4651654				

Sampling Point: RPd 1 5th PWS ID: MI600

	Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		06/23/20 17:59	4651655					
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		06/23/20 17:59	4651655					

Sampling Point: RPd 2 5th PWS ID: MI600

	Lead and Copper												
									EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		06/23/20 18:01	4651656				
7439-92-1	Lead	200.8	15 !	1.0	2.9	ug/L		06/23/20 18:01	4651656				

Sampling Point: RPd 3 5th PWS ID: MI600

	Lead and Copper													
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		06/23/20 18:04	4651657					
7439-92-1	Lead	200.8	15 !	1.0	3.9	ug/L		06/23/20 18:04	4651657					

Sampling Point: RPd 4 5th PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.5	ug/L		06/23/20 18:07	4651658			
7439-92-1	Lead	200.8	15 !	1.0	6.6	ug/L		06/23/20 18:07	4651658			

Sampling Point: RPd 5 5th PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		06/23/20 18:10	4651659
7439-92-1	Lead	200.8	15 !	1.0	1.6	ug/L		06/23/20 18:10	4651659

Sampling Point: RPd 6 5th PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		06/23/20 18:13	4651660
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		06/23/20 18:13	4651660

Sampling Point: RPd 7 5th PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	26	ug/L		06/23/20 18:21	4651661
7439-92-1	Lead	200.8	15 !	1.0	23	ug/L		06/23/20 18:21	4651661

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	Λ	1

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 of Order# 3 9 9910
T: 1.800.332.4345
F: 1.574.233.82070

DIN 6/17/2020

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REPORT TO:	יסו רדי מ	1		SAMPLER (Signature)			# CI SWIG	STATE (sample origin)	PDO IECT NAME		,,04	-	-	
				Mike O'Malley			009	IW	1		#5		-	
Mike O Malley, mornalley well-yofbentonharbormi gov	tonharbormi.gov]					7				Н
BILL 10:				COMPLIANCE MONITORING	× ×	ON -	POPULATION SERVED 9,639	SOURCE WATER	last round Lead and Copper Testing		S45146	SABNIA	DDE	מארו כואני
LAB Number		COLLECTION			S SNI IGMAS	2	31				CHLORINATED		BIX CC	עאאטנ
151	DATE	TIME	AM	- Md		-	2	EST WAIME	SAMPLE REMARKS		9		TAI	ואט
1 cites 1 ley 8	06/09/20	5:15		× RPd 1	765	655	Lead and Copper 1st Draw and 6th Draw	and 6th Draw	100	2 ×	2	+	+	u 3
2 1 Gard	06/10/20	7:45	×	RPD 2	-	959	L5ad and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		+	+	3
3 (650	06/10/20	7:00	×	RPd 3		150	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		+	+	35
4 (05)	06/10/20	8;30	×	RPd 4		658	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	١
5 654	06/10/20	7:00	×	RPd 5		659	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	١
6 652	06/10/20	4:00	×	RPd 6		660	L§ad and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	35
7 to (054)	06/10/20	8:00	×	RPd 7	3	10101]]
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RELINQUISHED BY:(Signature)	(e	рате	TIME	ME RECEIVED FOR LABORATORY BY	RATORY BY:	DATE		COMBITIONS UPON RECEIPT (check one):	uodn ɔ.	°C Upon Receipt		NA NA		
MATRIX CGDES:		TURN-AROUND TIME (TAT)	T GNU	IME (TAT) - SURCHARGES	Si		ZW FM			1		1		
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER		SW = Standard Written: (15 working RV* = Rush Verbal: (5 working days)	d Written: (5 wo	SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50%		IV* = Immediat	IV" = Immediate Verbal: (3 working days) 10 IW" =Immediate Written: (3 working days) 12	100% 125%	o manufactured internations	900000000000000000000000000000000000000				
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LABORATORY REPORT

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: City of Benton Harbor Report: 485017

Attn: Michael O'Malley Priority: Standard Written

200 East Wall Street Status: Final Benton Harbor, MI 49002 PWS ID: MI600

		Sample Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4621306	RP2 1st Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621307	RP3 1st Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621308	RP4 1st Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621309	RP5 1st Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621310	RP6 1st Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621311	RP7 1st Draw	200.8	04/28/20 21:00	Client	05/04/20 14:45
4621312	RP9 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621313	RP11 1st Draw	200.8	04/29/20 12:00	Client	05/04/20 14:45
4621314	RP13 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621315	RP14 5A	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621316	RP15 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621317	RP16 1st Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45
4621318	RP17 1st Draw	200.8	04/28/20 21:38	Client	05/04/20 14:45
4621319	RP19 1st Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621320	RP21 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621321	RP23 1st Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621322	RP24 1st Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621323	RP25 1st Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621324	RP10 1st Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45
4621325	RP2 5th Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621326	RP3 5th Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621327	RP4 5th Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621328	RP5 5th Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621329	RP6 5th Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621330	RP7 5th Draw	200.8	04/28/20 09:00	Client	05/04/20 14:45
4621331	RP9 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621332	RP11 5th Draw	200.8	04/29/20 00:00	Client	05/04/20 14:45
4621333	RP13 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621334	RP14 5B	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621335	RP15 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621336	RP16 5th Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45

4621337	RP17 5th Draw	200.8	04/28/20 23:38	Client	05/04/20 14:45
4621338	RP19 5th Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621339	RP21 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621340	RP23 5th Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621341	RP24 5th Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621342	RP25 5th Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621343	RP10 5th Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature Title Date

Client Name: City of Benton Harbor

Report #: 485017

Sampling Point: RP2 1st Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/08/20 11:26	4621306
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:26	4621306

Sampling Point: RP3 1st Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 11:29	4621307
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L		05/08/20 11:29	4621307

Sampling Point: RP4 1st Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/08/20 11:36	4621308
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:36	4621308

Sampling Point: RP5 1st Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	9.0	ug/L		05/08/20 11:38	4621309
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:38	4621309

Sampling Point: RP6 1st Draw PWS ID: MI600

	Lead and Copper												
									EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/08/20 11:41	4621310				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:41	4621310				

Sampling Point: RP7 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit											
7440-50-8	Copper	200.8	1300 !	1.0	150	ug/L		05/08/20 11:43	4621311		
7439-92-1 Lead 200.8 15! 1.0 5.2 ug/L 05/08/20 11:43 462											

Sampling Point: RP9 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		05/08/20 11:45	4621312		
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/08/20 11:45 46										

Sampling Point: RP11 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	5.7	ug/L		05/08/20 11:48	4621313		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:48	4621313		

Sampling Point: RP13 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	3.0	ug/L		05/08/20 11:50	4621314			
7439-92-1												

Sampling Point: RP14 5A PWS ID: MI600

	Lead and Copper												
									EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	3.0	ug/L		05/08/20 11:53	4621315				
7439-92-1	Lead	200.8	15 !	1.0	7.2	ug/L		05/08/20 11:53	4621315				

Sampling Point: RP15 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:00	4621316		
7439-92-1 Lead 200.8 15! 1.0 1.7 ug/L 05/08/20 12:00 46											

Sampling Point: RP16 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	130	ug/L	05/11/20 11:10	05/12/20 13:37	4621317			
7439-92-1	Lead	200.8	15 !	1.0	440	ug/L	05/11/20 11:10	05/12/20 13:37	4621317			

Sampling Point: RP17 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	17	ug/L		05/08/20 12:02	4621318		
7439-92-1	Lead	200.8	15 !	1.0	3.5	ug/L		05/08/20 12:02	4621318		

Sampling Point: RP19 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	8.9	ug/L		05/08/20 12:10	4621319		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:10	4621319		

Sampling Point: RP21 1st Draw PWS ID: MI600

	Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed I D#													
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/08/20 12:12	4621320				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:12	4621320				

Sampling Point: RP23 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	17	ug/L		05/08/20 12:14	4621321		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:14	4621321		

Sampling Point: RP24 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/08/20 12:17	4621322		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/08/20 12:17 462											

Sampling Point: RP25 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	6.8	ug/L		05/08/20 12:19	4621323		
7439-92-1	Lead	200.8	15 !	1.0	3.8	ug/L		05/08/20 12:19	4621323		

Sampling Point: RP10 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		05/08/20 12:22	4621324		
7439-92-1	Lead	200.8	15 !	1.0	3.0	ug/L		05/08/20 12:22	4621324		

Sampling Point: RP2 5th Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/08/20 12:24	4621325			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:24	4621325			

Sampling Point: RP3 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:27	4621326		
7439-92-1	Lead	200.8	15 !	1.0	1.6	ug/L		05/08/20 12:27	4621326		

Sampling Point: RP4 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		05/08/20 12:39	4621327			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:39	4621327			

Sampling Point: RP5 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	6.1	ug/L		05/08/20 12:41	4621328		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:41	4621328		

Sampling Point: RP6 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/08/20 12:48	4621329		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:48	4621329		

Sampling Point: RP7 5th Draw PWS ID: MI600

	Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Prepar								Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		05/08/20 12:51	4621330				
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 12:51	4621330				

Sampling Point: RP9 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/08/20 12:53	4621331		
7439-92-1											

Sampling Point: RP11 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.0	ug/L		05/08/20 12:56	4621332		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:56	4621332		

Sampling Point: RP13 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:58	4621333		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:58	4621333		

Sampling Point: RP14 5B PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/08/20 13:00	4621334
7439-92-1	Lead	200.8	15 !	1.0	10	ug/L		05/08/20 13:00	4621334

Sampling Point: RP15 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 13:03	4621335
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:03	4621335

Sampling Point: RP16 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		05/08/20 13:05	4621336
7439-92-1	Lead	200.8	15 !	1.0	1.0	ug/L		05/08/20 13:05	4621336

Sampling Point: RP17 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	8.6	ug/L		05/08/20 13:12	4621337
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 13:12	4621337

Sampling Point: RP19 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	7.2	ug/L		05/08/20 13:15	4621338
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:15	4621338

Sampling Point: RP21 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/08/20 13:22	4621339
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:22	4621339

Sampling Point: RP23 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	4.2	ug/L		05/08/20 13:24	4621340
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:24	4621340

Sampling Point: RP24 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.4	ug/L		05/08/20 13:27	4621341
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:27	4621341

Sampling Point: RP25 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		05/08/20 13:29	4621342
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 13:29	4621342

Sampling Point: RP10 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.9	ug/L		05/08/20 13:32	4621343
7439-92-1	Lead	200.8	15 !	1.0	9.2	ug/L		05/08/20 13:32	4621343

 \dagger EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

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Order # Batch #

www.Edio	Chadad area for EEA use only	Sor And To	Aluc e				CHA	IN OF	CHAIN OF CUSTODY RECORD	RD		Page	-	ot 7	
		וסו בבא חפ	A CHILLY		f	0.00			4000000	CTATE (sample origin)	DDO IECT NAME	#O9	-	-	-
REPORT TO	10:				0)	SAMPLER (Signature)			FWS ID#	OLATE (Sample Organ)	TROSEO INDINE	5	T	_	
La company	Mile O'Mella o	Ite 7			2	Mike O'Malley	BH Residents	7	009	¥					3
BILL TO:	y, monancy according	District of the control of the contr					Yes	No	POPULATION SERVED	SOURCE WATER	Lead and Copper	895106		ch:	MIT
awade@cib	awade@cityofbento <u>nharb</u> ōrmi.gov	×				COMPLIANCE	×		689'6	Lake Michigan				CODE	מסטאם .
	LAB Number		COLLECTION	×		1S	SAMPLING SITE		TEST NAME	ME	SAMPLE REMARKS	CHLORINATED			IANA
		DATE	TIME	AM	PM							YES	ON	-	UT
1 1/10	31206	04/30/20	10:00	×	2	RP2 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	M5
2	207	04/28/20	7:00		×	RP3 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
3	308	04/28/20	10:00	×	8	RP4 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
4	309	04/29/20	5:30	×	~	RP5 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
- 40	210	04/29/20	9:21	×	2	RP6 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
9	311	04/28/20	9:00		×	RP7 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each gite 1st Draw; 5th Draw	3 1st Draw; 5th Draw	each site 2 sample	×		2 SW	\$W
7	200	04/29/20	8:00	×		RP9 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	3 1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
	213	04/29/20	12:00	×	~	RP11 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	s 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
0	212	04/29/20	8:00	×	2	RP13 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
10	315	04/29/20	8:17	×	~		1st Draw and 5th Draw Samples **		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
11	215	04/29/20	6:00	×	~	RP15 1st Draw and 5th	1st Draw and 5th Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
12	Cia	04/29/20	5:00	×	- 22		Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
13	318	04/28/20	11:38		×	RP17 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each gite 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	WS.
14	319	04/28/20	9:36		×	RP19 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw		each site 2 sample	×	-	2 SW	M _S
RELINQUI	RELINQUISHED BY:(Signature)	9	DATE			RECEIVED BY:(Signature)	ature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS, SAMPLES TO CLIENT	JSED PORTIONS OF NON-	AQUEOU\$ SAME	PLES TO C	JENT	1
	DEI MONIGHEN BY CEINE	X	5 4 20	N V	AM PM	RECEIVED BY (Schuatura)	Ca	5/4 DATE	AMI PM * BOUTH	Boatles ave	(5) provous		SCHEW CO	020	9
7	NA	9	7/5		1 112				MA PM						
REINNOU	REINIQUISHED BY: (Signature)	0	DATE		TIME	RECEIVED FOR LABORATORY BY:		DATE LI. 202C	DATE TIME GONDITIONS UPON RECEIPT (check one):	RECEIPT (check one):	nodu 2º	°C Upon Receipt		(§	
				AM	PM	K I June			AM PM				1	1	
	CHARLE STREET		TILIDAI AF		THE PERSON	TATA CITOCHANIC									

STAT* = Less than 48 hours

EW-EXPOSURE WATER

OG-LO-F0435 Issue 6.0 Effective Date. 2000 of the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by OSEEA.

125% 100%

IV" = Immediate Verbal: (3 working days)

%0

SW = Standard Written: (15 working days)

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURGE WATER
PW-POOL WATER
WW-POOL WATER

MATRIX CODES:



www.EurofinsUS.com/Eaton

Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch # Order#

Muo asu AEE vot core habets	EEA use only		NEUD	CHAIN OF CUSIOD! RECORD	Y KECO	Ş		200	5	4
REPORT TO:		SAMPLER (Signature)		PWS	PWS ID#	STATE (sample origin)	PROJECT NAME	#Od		
Mike O'Mallev, momallev@citvofbentonharborni.gov	rbormi.aov	Mike O'Malley 3H	Les. Sents	99	009	IW				
BILL TO:	, n	COMPLIANCE	Yes	No POPULATIO	POPULATION SERVED 9,639	SOURCE WATER Lake Michigan	1st Half of 2020	S05160	SABNIAT	ODE
awade@cityofbentonharbormi.gov	COLLECTION	SA	SAMPLING SITE		TEST NAME	AE	SAMPLE REMARKS	₹	OE CON	O XIRTAI
VCC.	TIME							XEX ×	# ~	N WS
2001 2011	6:00		Draw Samples	2 lead and coppe	r tests each site	2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	×	+	+
200	× ×		Jraw Samples	Z lead and coppe	r tests each site	a lead and copper tests each site 1st Draw; but Draw	each site z sample	*	+	╁
25	04/28/20 6:00 × 04/29/20 7:00 ×	RP24 1st Draw and 5th Draw Samples RP25 1st Draw and 5th Draw Samples	raw Samples	2 lead and coppe	r tests each site	2 lead and copper tests each site 1st Draw; 5th Draw 2 lead and copper tests each site 1st Draw; 5th Draw	each site 2 sample	×		-
11 12 13 RELINQUISHED BY: Signature)	DATE TIME	RECEIVED BY:(Signature)	W. S.	TIME AMI PRA	LAB COMMENTS	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOWAQUEOUS SAMPLES TO CLIENT HENTS 4-30-2020 00:00 pc.	USED PORTIONS OF NON-AQ	AQUEOUS SAMPLES TO CLIENT	TOCLENT	
RELINGUISHED BY: (Signature)	 	RECEIVED BY: (Signature)		TIME AM PM		0200 1010				
REĽINQUISHED'B'Y:(Signature)	DATE TIME	GECEIN	547	TIME MW	ITIONS UPON RECEIPT	CONDITIONS UPON RECEIPT (check one):	°C Upon Receipt	Receipt	ANN	
MATRIX CODES; DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER	SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days) RW* = Rush Written: (5 working days)	= (1A1) - SUKCHARGES working days) 0% g days) 50% ng days) 75%		IV* = Immediate Varbal: (3 working days) IW* =Immediate Written: (3 working days) SP* = Weekend, Hbliday	ays) 100% (ays) 125% CALL		Samples received unannounced with less than 48 hours he left me remaining than 48 hours are additional phrenes.	mounced with less time remaining		
SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	* Please call expedite	* Please rall: expedited service not available for all testing		STAT* = Less than 48 hours	CALL		Comment against an American	COLUMNIA DATE: 2046.00.20	2018.00	000

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by DEEA.



Eaton Analytical

Order # Batch # 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

www.EurofinsUS.com/Eaton						CHAIN OF	CHAIN OF CUSTODY RECORD	RD	51.00	Page 1	o	f 2	
Shaded area for EEA use only	for EEA use	only										Н	
REPORT TO:					SAMPLER (Signature)		# OI SMd	STATE (sample origin)	PROJECT NAME	#0 _d			
wite o'miller	الم				Mike O'Malley 3 H	4 Residents	900	Σ					- 3
Mike O'Malley, momalley@cityorbentonharbormi.gov BILL TO:	tonharbormi.gov					Yes No	POPULATION SERVED	SOURCE WATER	Lead and Copper 1st Half of 2020	Sq5106	58:		BMIT
on bankanian					COMPLIANCE	*	6:9'6	Lake Michigan			3NIATN	CODE	מסתאם
LAB Number		COLLECTION	7		ARS.	SAMPLING SITE	TEST NAME	ME	SAMPLE REMARKS	CHLORINATED			AANA
	DATE	TIME	AM	Md	5					YES NO	Т		UT.
14162122S	04/30/20	10:00	×	H	RP2 1st Draw and 5th Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	*	2	SW	W\$
336	04/28/20	7.00		×			2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	2	SW	Mar
	04/28/20	10:00	×		RP4 1st Draw and 5th Draw Samples	aw Samples	2 lead and copper tests each gite 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	-	z sw	3W
	04/29/20	5:30	×		RP5 1st Draw and 5th Draw Samples	aw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
	04/29/20	9.24	*			aw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
	04/28/20	9.00	-	×	RP7 1st Draw and 5th Draw Samples	aw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	_	2 SW	3W
0	04/29/20	8.00	>		RP9 1st Draw and 5th Draw Samples	aw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	.,	2 SW	SW.
222	04/29/20	12.00	×	S	RP11 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		z sw	WS.
222	04/29/20	8:00	×			Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	-	2 SW	3W
7	04/29/20	8:17	*			Draw Samples **	2 lead and copper tests each alte 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
10	04/29/20	9:00	*			Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
	04/29/20	5.00	*			Draw Samples	2 lead and copper tests each aite 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	-	2 SW	8W
737	04/28/20	11:38		×	RP17 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	W8.
->	04/28/20	9:36			RP19 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	-	2 SW	MS.
RELINQUISHED BY: (\$idpature)		DATE	H	TIME	RECEIVED BY:(Signature)	ture) DATE	TIME	LAB RESSERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS, SAMPLES TO CLIENT	ISED PORTIONS OF NON-J	AQUEOUS SAMPL	ES TO CL	IENT	
Mexicology	. 8	of b/5	0,	1-		Ca	AMI PM * BOUCH BORDED COVE	and the second second	monted (5) osotooo	0 (5	505	020	8
RELINGUISHED BY: (Signature)) (<u>a</u>	DATE		TIME O'C	RECEIVED BY:(Signature)	iture) J UAIE				+			70-1
A14 010 26	3	スス		711	•		AM PM						
REINIQUISHED BY:(Signature)	(e)	DATE	1	TIME	RECEIVED FOR LABORATORY	RATORY BY: DATE TIME $ \begin{array}{cccc} & \text{DATE} \\ & \text{TIME} \end{array} $	COMDITIONS	UPON RECEIPT (check one): load: Wet/Blue Ambient	°C Upon Receipt.	Receipt	\	(AN	
		1	AM	AM PM	1)	AM PM				1	1	

RW-REAGENT WATER

W-EAGORIT WATER

WATER

W-EAGORIT WATER DW-DRINKING WATER
W-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFOCK WATER
PW-POOL WATER
WW-POOL WATER

125% 100%

IV* = Immediate Verbal: (3 working days)

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES:

%0

SW = Standard Written: (15 working days)



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order # Batch #

www.EurofinsUS.com/Eaton	vitae est		CHAIN OF	CHAIN OF CUSTODY RECORD	RD		Page 2	ď	2
REPORT TO:		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	#0d	E	-
Mike O'Mallev, momallev@citvorbentonharbormi.gov	bormi,gov	MIKe O'Malley 3 H	Ros. Sents	009	W				.3
BILL TO:		COMPLIANCE MONITORING	Yes No	POPULATION SERVED 9,639	SOURCE WATER Lake Michigan	Lead and Copper	S05160	2ЯЭИIАТИ(CODE SOUND TIME
	COLLECTION DATE TIME AM PM		SAMPLING SITE	TEST NAME	МЕ	SAMPLE REMARKS	CHLORINATED YES NO		XIATAM
4102122G	× 00:9	RP21 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
370	4:00		Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
341	6:00	1	raw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
340	7:00 ×	RP25 1st Draw and 5th Draw Sai	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
6	DATE TIME 5 4 12 AM PM DATE TIME	RECEIVED BY: (Signature)	ture) ACLES 5-4 ture) DATE	TIME AMI PAS U.A.	UAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOWAQUEOUS SAMPLES TO CLENT FENTS 1 30, 2020 00:00 PL 0 50 5 10 10	USED PORTIONS OF NON-AQ	QUEOUS SAMPLES TO CLEM	POCUENT	
RELINQUISHED 84" (Signature)	DATE TIME	RECEIVED FOR LABORATOR	AATORY BY: DATE	TIME TIME	CONDITIONS UPON RECEIPT (check one):	© Upon Receipt	td.coejbt	AM	
MATRIX CÓDES: DW-DRINKING WATER RW-REAGENT WATER RW-REAGENT WATER RW-SKPOSURE WATER BW-POOL WATER TO WW-WASTE WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - S SW = Standard Written: (15 working days) RV* = Rush Verba: (5 working days) RW* = Rush Written: (5 working days) **Please call, expedited service n	TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RY = Rush Verbai: (5 working days) 50% RW = Rush Written: (5 working days) 75% RW = Rush Written: (5 working days) 75%	ES IV* = Immed IV* = Immed SP* = Week STAT* = Let	MATRIX CODES: TURN-AROUND TIME (TAT) - SURCHARGES DW-DRINKING WATER SW = Standard Written: (15 working days) DW-BRIAGENT WATER SW = Rush Verbal: (3 working days) Verbal: (4 morking days) Verbal: (4 mork		Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. 06-LO-F0435 Issue 6.0 Effective Da	nounced with less fond or remaining fond charges.	e: 2016-05	-20



PURCHASE REQUISITION

TERM:

TO BE FILLED	IN BY
PURCHASING	AGENT

PURCHASE ORDER#_____

REQUISITION #: \$05106

DATE: 5 20 Woter Dist Souphy configur

PURCHASIN VENDOR:		St, S	50 th Bend IN 46617	ONTACT NAI	ME: Pe	62-434		TMENT
ACCOUNT	WHERE USED	QUANTITY	DESCRIPTION	UNIT	PRICE	EXTENSION	TRADE DISCOUNT	NET PRICE
1.	0325		18 Sample 1:tes 2 Each	ESTIMATE	QUOTED		2,000	
		36	Lend & Copper testing					
7	0		((() ()					
V Dala	J							
1/Xh								
My.							1	
10				-				

APPROVAL SIGNATURE:

Berrien County Printing





LABORATORY REPORT

Eaton Analytical

LABORATORY REPORT

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

	State	Certification	State	Certification
	LA PARTADY DEDO	PT 40700	Missouri	880
	LABORATORY REPO	IN00035	Montana	CERT0026
	Arizona	AZ0432	Nebraska	NE-OS-05-04
	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon (Primary AB)*	4074
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
you have any q	uestions loodiama g Ohrennistry ease do	not hesit @e7 d /s0/1 us at	South Carolina	95005
00) 332-4345 o	(574) Indiana Microbiology	M-76-07	South Dakota	IN00035
	lowa	098	Tennessee	TN02973
	Kansas*	E-10233	Texas*	T104704187-18-12
nis report may n	ot be reproduc ió entempkiy full, without w	ritten appr 9@05% EEA.	Texas/TCEQ	TX207
	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
	Michigan	9926	West Virginia	9927 C
	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Acerelalitation Bodies

Revision date: 03/14/2019

Attn:





110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: Benton Harbor City of LABORATORY REPORT

Michael O'Malley

200 East Wall Street

Benton Harbor, MI 49002

Report: 491312

Priority: Standard Written

Status: Final

PWS ID: Not Supplied

	Sample Information									
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time					
4672024	Sample #1	200.8	07/08/20 00:00	Client	07/14/20 11:45					
4672025	Sample #5	200.8	07/08/20 00:00	Client	07/14/20 11:45					

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for you have last questions concerning this report, please do not hesitate to call us at

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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Page 1 of 7

Authorized Signature

Benton Harbor, City of

Report #: 491312

Client Name:

Title

07/21/2020

Date



Report #: 491312

Sampling Point: Sample #1 PWS ID: Not Supplied

Lead and Copper												
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	11	ug/L		07/20/20 12:45	4672024			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		07/20/20 12:45	4672024			

Sampling Point: LABORATORY REPORT Sample #5 PWS ID: Not Supplied

Lead and Copper													
Analyte ID #													
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		07/20/20 12:47	4672025				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		07/20/20 12:47	4672025				

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

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Page 1 of 7

ns



Report #: 491312

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

you have any questions concerning this report, please do not hesitate to call us at

00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) 99% of procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

BMIT GNUORANRUT ed with less than 48 hours holding MATRIX CODE N/A Effective Date: 2020-05-15 # OF CONTAINERS CHLORINATED 8 time remaining may be subject to addition 06-LO-F0435 Issue 8.0 Effective Da ₩ of YES LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIEN Batch # Order# Page Residual Chlorine (P/A) Preservative Checks 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 pH accep-table? √ TUIL COMMENTS THE RIGHT TORIL TO THE RIGHT TORIL TO THE RIGHT TORIL TO THE RIGHT TO TEST NAME 100% 125% CALL CALL POPULATION SERVED is report may not be reproduced, S We waste water

With a market water Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. SAMPLING SITE Eaton Analytical service not available for all testing RECEIVED BY:(Signature) RECEIVED BY:(Signature) COMPLIANCE AM PM 0:00 0:00 COLLECTION CHAIN OF CUSTODY RECORD 💸 eurofins Shaded area for EEA use only 7/14/2020 14/2020 DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER DATE RELINQUISHED BY:(Signature RELINQUISHED BY:(Signature RELINQUISHED BY:(Signature MATRIX CODES. LAB Number ECLE-DWEHD-CWSS-LCU Dec 3 2020





LABORATORY REPORT

Eaton Analytical

LABORATORY REPORT

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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Page 1 of 7

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STATE CERTIFICATION LIST

	State	Certification	State	Certification
	LAPARTADY DEDO	DT 40700	Missouri	880
	LABORATORY REPO Alaska	IN00035	Montana	CERT0026
	Arizona	AZ0432	Nebraska	NE-OS-05-04
	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida(Primary AB)*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon*	4156
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
you have any qı	uestions kodiama g Ohernistny ease do	not hesit @e7 d e0 l1us at	South Carolina	95005
00) 332-4345 o	(5 ⁷⁴⁾ Indiana Microbiology	M-76-07	South Dakota	IN00035
	lowa	098	Tennessee	TN02973
	Kansas*	E-10233	Texas*	T104704187
nis report may n	ot be reproduc ká pricipky full, without w	ritten appr 9/0/5/6 n EEA.	Texas/TCEQ	TX207
	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
	Michigan	9926	West Virginia	9927 C
	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Acerelalitation Bodies

Revision date: 09/29/2020

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110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

City of Benton Harbor LABORATORY REPORT Client:

Attn: Michael O'Malley 200 East Wall Street

Benton Harbor, MI 49002

500948 Report:

Priority: Standard Written

Status: Final

PWS ID: MI600

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4749586	RP10 BHFree 102 1st Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749587	RP10 BHFree 102 5th Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749588	RP10 BHFEA 41 1st Draw	200.8	10/07/20 07:00	Client	10/14/20 10:25
4749589	RP10 BHFEA 41 5th Draw	200.8	10/07/20 07:00	Client	10/14/20 10:25
4749590	RP10 BHFEA 52 1st Draw	200.8	10/07/20 07:00	Client	10/14/20 10:25
4749591	RP10 BHFEA 52 5th Draw	200.8	10/07/20 07:00	Client	10/14/20 10:25
hav € 7af9∮9€lest	ions concerning this health, the aset do and he sitate to call	us at 200.8	10/07/20 08:00	Client	10/14/20 10:25
332 4/3/15 99 (57	74) 233-4777. RP10 BHFEA 7 5th Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749594	RP10 BHFree 99 1st Draw	200.8	10/07/20 07:30	Client	10/14/20 10:25
4749595	RP10 BHFree 99 5th Draw	200.8	10/07/20 07:30	Client	10/14/20 10:25
4749596 report may not b	RP10 BHFEA 20 1st Draw e reproduced, except in full, without written approval from	EEΔ 200.8	10/07/20 08:00	Client	10/14/20 10:25
4749597	RP10 BHFEA 20 5th Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749598	RP10 BHFree 23 1st Draw	200.8	10/07/20 04:00	Client	10/14/20 10:25
4749599	RP10 BHFree 23 5th Draw	200.8	10/07/20 04:00	Client	10/14/20 10:25
4749600	RP10 BHFEA 45 1st Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749601	RP10 BHFEA 45 5th Draw	200.8	10/07/20 08:00	Client	10/14/20 10:25
4749602	RP10 BHFEA 6 1st Draw	200.8	10/07/20 06:00	Client	10/14/20 10:25
4749603	RP10 BHFEA 6 5th Draw	200.8	10/07/20 06:00	Client	10/14/20 10:25
4749604	RP10 BHFree 41 1st Draw	200.8	10/06/20 23:00	Client	10/14/20 10:25
4749605	RP10 BHFree 41 5th Draw	200.8	10/06/20 23:00	Client	10/14/20 10:25
		Page 1 o	f 7		

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

Report Summary

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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Report #: 500948

LABORATORY REPORT

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Page 1 of 7

10/21/2020 Title

Client Name: City of Benton Harbor

500948 Report #:

Authorized Signature

Date



Report #: 500948

Sampling Point: RP10 BHFree 102 1st Draw

PWS ID: MI600

PWS ID: MI600

	Lead and Copper												
Analyte ID #													
7440-50-8	Copper	200.8	1300 !	1.0	7.3	ug/L		10/20/20 11:30	4749586				
7439-92-1	Lead	200.8	15 !	1.0	9.8	ug/L		10/20/20 11:30	4749586				

LABORATORY REPORT Sampling Point: RP10 BHFree 102 5th Draw

	Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date								EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	16	ug/L		10/20/20 11:38	4749587				
7439-92-1	Lead	200.8	15 !	1.0	28	ug/L		10/20/20 11:38	4749587				

Sampling Point: RP10 BHFEA 41 1st Draw PWS ID: MI600

Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	13	ug/L		10/20/20 11:40	4749588			
7439-92-1	Lead	200.8	15 !	1.0	29	ug/L		10/20/20 11:40	4749588			

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Sampling Point: RP10 BHFEA 41 5th Draw PWS ID: MI600

	Lead and Copper										
nis re	oorangayenot ID#	be reprodu ged lex cept in full,	vithowie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	6.3	ug/L		10/20/20 11:43	4749589	
	7439-92-1	Lead	200.8	15 !	1.0	62	ug/L		10/20/20 11:43	4749589	

Sampling Point: RP10 BHFEA 52 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		10/20/20 11:46	4749590			
7439-92-1	Lead	200.8	15!	1.0	17	ug/L		10/20/20 11:46	4749590			

Eaton Analyticabity of Benton Harbor



Report #: 500948

Sampling Point: RP10 BHFEA 52 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		10/20/20 11:48	4749591		
7439-92-1 Lead 200.8 15! 1.0 20 ug/L 10/20/20 11:48 47-											

Sampling Point: RP10 BHFEA 7 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		10/20/20 11:51	4749592		
7439-92-1	Lead	200.8	15 !	1.0	4.6	ug/L		10/20/20 11:51	4749592		

Sampling Point: RP10 BHFEA 7 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		10/20/20 11:53	4749593		
7439-92-1 Lead 200.8 15! 1.0 9.2 ug/L 10/20/20 11:53 474											

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Sampling Point: RP10 BHFree 99 1st Draw PWS ID: MI600

	Lead and Copper										
nis re	oorangayenot ID#	be reprodu ged lex cept in full,	vithowie written a	pନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	5.7	ug/L		10/20/20 11:56	4749594	
	7439-92-1	Lead	200.8	15 !	1.0	31	ug/L		10/20/20 11:56	4749594	

Sampling Point: RP10 BHFree 99 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit Page 1 pf 7 Date I												
7440-50-8	Copper	200.8	1300 !	1.0	14	ug/L		10/20/20 11:58	4749595			
7439-92-1	Lead	200.8	15 !	1.0	20	ug/L		10/20/20 11:58	4749595			

Report #: 500948

Sampling Point: RP10 BHFEA 20 1st Draw

PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/20/20 12:06	4749596			
7439-92-1	Lead	200.8	15 !	1.0	21	ug/L		10/20/20 12:06	4749596			

Sampling Point: RP10 BHFEA 20 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/20/20 12:13	4749597		
7439-92-1	Lead	200.8	15 !	1.0	24	ug/L		10/20/20 12:13	4749597		

Sampling Point: RP10 BHFree 23 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		10/20/20 12:16	4749598		
7439-92-1 Lead 200.8 15! 1.0 12 ug/L 10/20/20 12:16 474											

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

Sampling Point: RP10 BHFree 23 5th Draw PWS ID: MI600

	Lead and Copper										
nis re	oorangayenot ID#	be reprodu ged lex cept in full,	vithowie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		10/20/20 12:18	4749599	
	7439-92-1	Lead	200.8	15 !	1.0	13	ug/L		10/20/20 12:18	4749599	

Sampling Point: RP10 BHFEA 45 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit Page 1 of 7 Date												
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		10/20/20 12:21	4749600			
7439-92-1	Lead	200.8	15 !	1.0	18	ug/L		10/20/20 12:21	4749600			



Report #: 500948

Sampling Point: RP10 BHFEA 45 5th Draw

PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit IIII											
7440-50-8	Copper	200.8	1300 !	1.0	1.9	ug/L		10/20/20 12:23	4749601		
7439-92-1 Lead 200.8 15! 1.0 19 ug/L 10/20/20 12:23 474											

Sampling Point: RP10 BHFEA 6 1st Draw

PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit											
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		10/20/20 12:26	4749602		
7439-92-1 Lead 200.8 15! 1.0 3.4 ug/L 10/20/20 12:26 4:											

Sampling Point: RP10 BHFEA 6 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		10/20/20 12:28	4749603
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L		10/20/20 12:28	4749603

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Sampling Point: RP10 BHFree 41 1st Draw PWS ID: MI600

				Le	ad and (Copper				
s re	ooranaryte ^{not} ID#	be reprodu ged of the second o	vitho wie written a	^{opନ୍} କୃଥିଣ ^{fi} Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	3.4	ug/L		10/20/20 12:31	4749604
	7439-92-1	Lead	200.8	15 !	1.0	27	ug/L		10/20/20 12:31	4749604

Sampling Point: RP10 BHFree 41 5th Draw PWS ID: MI600

	Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	3.7	ug/L		10/20/20 12:33	4749605	
7439-92-1	Lead	200.8	15 !	1.0	40	ug/L		10/20/20 12:33	4749605	

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

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Report #: 500948

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

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00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) 99% of procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Eaton Analytical Caron Analytical Caron Analytical

Dec 3 2020

EGLE-DWEHD-CWSS-LCL

Analytical

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REPORT TO

110 S. Hill Street (M.10) 14/1002 South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 Batc

Order # 4093 Batch # 2

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#0d Page

STATE (sample origin) | PROJECT NAME SOURCE WATER Lake Michigan Ξ CHAIN OF CUSTODY RECORD **TEST NAME** POPULATION SERVED Lead and Copper 1st Draw ead and Copper 5th Draw Lead and Copper 1st Draw Lead and Copper 5th Draw Lead and Copper 1st Draw Lead and Copper 1st Draw Lead and Copper 5th Draw PWS ID # 9,639 900 lesident OR 8 SAMPLING SITE res SAMPLER (Signature) COMPLIANCE RP10 BHFree 102 RP10 BHFree 102 RP10 BHFEA 41 RP10 BHFEA 41 RP10 BHFEA 52 RP10 BHFEA 52 Wike O'Malley RP10 BHFEA 7 AM PM cityofbentoni ErA BORA TORY REPORT COLLECTION 8:00 AM 8:00 AM 8:00 AM TIME 7:00am 10/7/2020 7:00am 10/7/2020 7:00am 7:00am Shaded area for EEA use only Mike O'Malley, momalley@cityofbentonharbormi.gov BILL TO: 10/7/2020 10//7/2020 10/7/2020 10//7/2020 10//7/2020

DATE

LAB Number

587

188

0 474

SW SW

SW SW SW SW SW SW

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1st draw 5th draw 1st draw

5th draw

SW

SW

TURNAROUND TIME

MATRIX CODE

CHLORINATED 9

SAMPLE REMARKS

YES

OF CONTAINERS

Req S05230

Lead and Copper 2nd half 2020 Compliance

Monitoring 1st set

8W

SW

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SW SW SW SW SW

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1st draw

5th draw

Lead and Copper 5th Draw

Lead and Copper 1st Draw Lead and Copper 5th Draw Lead and Copper 1st Draw Lead and Copper 5th Draw

RP10 BHFree 99 RP10 BHFree 99

RP10 BHFEA 7

8:00 AM

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7:30am 7:30am

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10//7/2020

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1st draw 5th draw 1st draw 5th draw 1st draw 5th draw

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Lead and Copper 1st Draw Lead and Copper 5th Draw

RP10 BHFree 23 RP10 BHFree 23

> 10//7/2020 4:00am 10//7/2020 4:00am

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RP10 BHFEA 20 RP10 BHFEA 20

8:00 AM 8:00 AM

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SW SW

SW SW SW

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SW

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	LAB COMMENTS			CONDITIONS UPON RECEIPT (check one):	(ced: Wet/Blue X Ambient °C Upon Receipt X N/A
TIME	10.9	TIME	AM PM	TIME	AM PM
DATE	10/1/201	DATE		DATE	DEDE THE
you hateranyoquesitions/contraming this report, please do thethesfately6eahkusianature)	00) 332-4345 or (574) 2334777.	RELINQUISHED BY: (Bignature) DATE TIME RECEIVED BY: (Signature)	nis report may not be reproduced, except in full, without <u>written approval from EEA.</u>	RELINGUISHED BY: (Signature) DATE TIME RECEIVED FOR LABORATORY BY:	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

E C TURN-AROUND TIME (TAT) - SURCHARGES %0 SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days) AM PM 01/1/10

DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER

MATRIX CODES.

Bamples recalled unermounted your lass than 48 hours holding time remaining may be subject to additional charges.

100% 125%

IW* =Immediate Written: (3 working days)

IV* = Immediate Verbal: (3 working days)

EW-EXPOSURE WATER EWER WATER Shorking days) 1.0.00 STAT* = Less than 48 nours

EW-EXPOSURE WATER SHORK MATER AND STATE = Less than 48 nours

EW-EXPOSURE WATER SHORK MATER AND STATE = Less than 48 nours

OG-1.O-F0435 Issue 6.0 Effective Later Control of Effective Later Shork on the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

EEA.

Eaton Analyycal Eaton Analytical Curofins

Dec 3 2020

RECEIVE

EGLE-DWEHD-CWSS-LCU

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch # Order #

POPULATION SERVED SOURCE WATER Compliance Complia	NG SITE Lead and Copper 1st Draw Sith draw The Lead and Copper 1st Draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw Sith draw The Lead and Copper 1st Draw Sith draw The Committee Interesting 1st Draw Sith draw The Copper 1st Draw The Sith draw The Sit	.com/Eaton Shaded area for EEA use only
POPULATION SERVED SOURCE WATER Complaint 2020 Com	March Marc	SAMPLER (Signature)
Yes No POPULATION SERVED SOURCE WATER Annitoring 1st set Annit	NO POPULATION SERVED SOUNCE WATER And hard and Copper 1st Draw	Mike O'Malley
Nontioning 1st set	NIG SITE Lead and Copper 1st Draw Lead and Copper 5th Draw Sith draw X TIME DATE TIME AM PM RV BY: DATE TIME COUDITIONS UPON RECEIPT (check one): Cought 19 Marchinet And PM AM PM	
Lead and Copper 1st Draw	ING SITE Lead and Copper 1st Draw Sith draw The Copper 1st Draw AM I PM AM I PM AM I PM The Copper 1st Draw CHARCE IPT (check one): AN I PM AM I PM AM I PM The Copper 1st Draw AM I PM The Copper 1st Draw AM I PM AM I PM The Copper 1st Draw The Copper	COMPLIANCE
Lead and Copper 1st Draw 1st draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W Lead and Copper 5th Draw 5th draw x 1 5W	Lead and Copper 1st Draw 1st draw x 15 WO # 2 SW Lead and Copper 1st Draw 1st draw x 15 WW Lead and Copper 1st Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW Lead and Copper 5th Draw 1st draw x 15 WW 1st draw x 15 W	LAB Number COLLECTION
1st draw	Lead and Copper 1st Draw 1st draw x 1 SW	TIME AM PM
5th draw x 1 SW 1st draw x 1 SW 1st draw x 1 SW 5th draw x 1 SW	Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W St DATE TIME 1AB COMMENTS AM PM AM	8:00 AM RP10 BHFEA 45
1st draw	Lead and Copper 1st Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W Lead and Copper 5th Draw 1st draw x 1 5W The comparison of DATE TIME AM I PM AM I ST AM I PM	8:00 AM RP10 BHFEA 45
Sth draw x 1 SW 1st draw x 1 SW Sth draw x 1 SW	Lead and Copper 5th Draw	6:00am RP10 BHFEA 6
1st draw x 1 SW 5th draw x 1 SW	Lead and Copper 5th Draw	6:00am RP10 BHFEA 6
Sth draw × 1	Lead and Copper 5th Draw 5th draw 1 SW	11:00 × RP10 BHFree 41
	RY BY: DATE TIME LAB COMITION RY BY: DATE TIME AM PM AM AM	×
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	Tatory By: Date Time Am PM PM Am PM Conditions UPON RECEIPT (check one): Conditions UPON RECEIPT (check one):	00) 332-4345 od(574) 233-4777.
100 00 00 00 00 00 00 00 00 00 00 00 00	AATORY BY: DATE TIME CONDITIONS UPON RECEIPT (check one): (14-2020	DATE TIME RECEIVED BY: (Signature)
DATE TIME	AATORY BY: DATE TIME CONDITIONS UPON RECEIPT (check one): (C Upon Receipt X Ambient ** C Upon Receipt X Ambient ** C Upon Receipt X	is report may not be reproduced, except in full, without written approval from EEA.
DATE TIME		DATE TIME RECEIVED FOR LABORATO

STAT* = Less than 48 hours

EW-EXPOSURE WATER

BW-EXPOSURE WATER

BW-E DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
PW-POOL WATER
PW-POOL WATER
WW-WASTE WATER

Bamples received unannounced with leas than 48 hours holding time remaining may be subject to additional charges.

125%

IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days)

TURN-AROUND TIME (TAT) - SURCHARGE

MATRIX CODES:

SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days)



PURCHASE REQUISITION

	ec 3 20	20
EGLE-I	DWEHD-CV	VSS-LCU

REQUISITION #: S 05230

DATE: 10/14/20
Wetel Dist Testing
570.740 DEPARTMENT

PURCHASIN	G AGENT:				_50	11.51	9.74	10	DEPAR	TMENT
VENDOR:	zunfi	vs Ect	NA Au	ely bed end EN 4661	CONTA	ACT NAM	ИЕ:			
(10	1 4.71	St,	So. th Be	end IN 4661	7					
ACCOUNT	WHERE	QUANTITY		DESCRIPTION		UNIT F	PRICE	EXTENSION	TRADE	NET PRICE
- ACCOUNT	LABO	RATORY	REPORT	•		STIMATE	QUOTED	277270	DISCOUNT	
		10	leid &	Copper test	5					
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TERM:			_	APPROVAL SIGN	ATURE:			3104		Daniel A Front or

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Eaton Analytical



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	LABORATORY REPO Alaska	DT 40700	Missouri	880
	Alaska	IN00035	Montana	CERT0026
	Arizona	AZ0432	Nebraska	NE-OS-05-04
	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida(Primary AB)*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon*	4156
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
you have any qı	uestions kodiama g Ohrennistny ease do	not hesit @e7o1e0 l1us at	South Carolina	95005
00) 332-4345 oi	(5 ⁷⁴⁾ Indiana Microbiology	M-76-07	South Dakota	IN00035
	lowa	098	Tennessee	TN02973
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nis report may n	ot be reproduc ká pytopky full, without w	ritten appr 9@056 n EEA.	Texas/TCEQ	TX207
	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
	Michigan	9926	West Virginia	9927 C
	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 09/29/2020





110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

City of Benton Harbor LABORATORY REPORT Client:

Attn: Michael O'Malley

> 200 East Wall Street Benton Harbor, MI 49002

501568 Report:

Priority: Standard Written

Status: Final PWS ID: MI600

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4755145	RP10a BHFEA 130 1st Draw	200.8	10/14/20 06:00	Client	10/16/20 15:38
4755146	RP10a BHFEA 130 5th Draw	200.8	10/14/20 06:00	Client	10/16/20 15:38
4755147	RP10a BHFEA 16 1st Draw	200.8	10/14/20 08:30	Client	10/16/20 15:38
4755148	RP10a BHFEA 16 5th Draw	200.8	10/14/20 08:30	Client	10/16/20 15:38
4755149	RP10a BHFree 4 1st Draw	200.8	10/14/20 08:20	Client	10/16/20 15:38
4755150	RP10a BHFree 4 5th Draw	200.8	10/14/20 08:20	Client	10/16/20 15:38
ou hav € 7ล็จี√ี่ ชีนestic	ons concerning Rise Bolf, Falas 4 sto from he sitate to call t	s at 200.8	10/14/20 07:23	Client	10/16/20 15:38
0) 332 47345 52 (574		200.8	10/14/20 07:23	Client	10/16/20 15:38
4755153	RP10a BHFree 84 1st Draw	200.8	10/14/20 07:00	Client	10/16/20 15:38
4755154	RP10a BHFree 84 5th Draw	200.8	10/14/20 07:00	Client	10/16/20 15:38
4755155	RP10a BHFree 22 1st Draw reproduced, except in full, without written approval from	200.8	10/14/20 08:00	Client	10/16/20 15:38
4755156	RP10a BHFree 22 5th Draw	200.8	10/14/20 08:00	Client	10/16/20 15:38
4755157	RP10a BHFEA 50 1st Draw	200.8	10/14/20 08:00	Client	10/16/20 15:38
4755158	RP10a BHFEA 50 5th Draw	200.8	10/14/20 08:00	Client	10/16/20 15:38
4755159	RP10a BHFree 33 1st Draw	200.8	10/14/20 08:30	Client	10/16/20 15:38
4755160	RP10a BHFree 33 5th Draw	200.8	10/14/20 08:30	Client	10/16/20 15:38
4755161	RP10a BHFEA 22 1st Draw	200.8	10/14/20 06:10	Client	10/16/20 15:38
4755162	RP10a BHFEA 22 5th Draw	200.8	10/14/20 06:10	Client	10/16/20 15:38
4755163	RP10a BHFEA 37 1st Draw	200.8	10/14/20 05:10	Client	10/16/20 15:38
4755164	RP10a BHFEA 37 5th Draw	200.8	10/14/20 05:10	Client	10/16/20 15:38
		Page 1 c	of 7		
	Repo	rt Summary			

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

ns

Report #: 501568

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Page 1 of 7

Authorized Signature

Title

10/29/2020

Date

Client Name:

City of Benton Harbor

Report #: 5

501568

Eaton Analyticabity of Benton Harbor



Report #: 501568

Sampling Point: RP10a BHFEA 130 1st Draw

PWS ID: MI600

	Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	3.9	ug/L		10/26/20 12:01	4755145	
7439-92-1	Lead	200.8	15 !	1.0	100	ug/L		10/26/20 12:01	4755145	

Sampling Point: RP10a BHFEA 130 5th Draw

PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 12:10	4755146
7439-92-1	Lead	200.8	15 !	1.0	1.6	ug/L		10/26/20 12:10	4755146

Sampling Point: RP10a BHFEA 16 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		10/26/20 12:13	4755147			
7439-92-1	Lead	200.8	15 !	1.0	20	ug/L		10/26/20 12:13	4755147			

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Sampling Point: RP10a BHFEA 16 5th Draw PWS ID: MI600

	Lead and Copper									
nis re	ooramanytenot ID#	be reprodu ged_{il}gre cept in full,	vitho wie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		10/26/20 12:15	4755148
	7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		10/26/20 12:15	4755148

Sampling Point: RP10a BHFree 4 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	37	ug/L		10/26/20 12:18	4755149			
7439-92-1	Lead	200.8	15 !	1.0	5.2	ug/L		10/26/20 12:18	4755149			



Report #: 501568

Sampling Point: RP10a BHFree 4 5th Draw

PWS ID: MI600

PWS ID: MI600

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	3.1	ug/L		10/26/20 12:21	4755150			
7439-92-1	Lead	200.8	15 !	1.0	3.0	ug/L		10/26/20 12:21	4755150			

Sampling Point: RP10a BHFEA 18 1st Draw

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		10/26/20 12:24	4755151			
7439-92-1	Lead	200.8	15 !	1.0	6.1	ug/L		10/26/20 12:24	4755151			

Sampling Point: RP10a BHFEA 18 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 12:27	4755152			
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		10/26/20 12:27	4755152			

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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Sampling Point: RP10a BHFree 84 1st Draw PWS ID: MI600

	Lead and Copper									
s re	oording by enot ID#	be reprodu ced of the second o	vitho wie written a	^{opନ୍} କୃଥିଣ ^{fi} Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	4.2	ug/L		10/26/20 12:29	4755153
	7439-92-1	Lead	200.8	15 !	1.0	6.3	ug/L		10/26/20 12:29	4755153

Sampling Point: RP10a BHFree 84 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 12:32	4755154			
7439-92-1	Lead	200.8	15!	1.0	5.1	ug/L		10/26/20 12:32	4755154			

Eaton Analyticabity of Benton Harbor



Report #: 501568

Sampling Point: RP10a BHFree 22 1st Draw

PWS ID: MI600

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	8.4	ug/L		10/26/20 12:41	4755155			
7439-92-1	Lead	200.8	15 !	1.0	8.6	ug/L		10/26/20 12:41	4755155			

LABORATORY REPORT Sampling Point: RP10a BHFree 22 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	11	ug/L		10/26/20 12:49	4755156		
7439-92-1	Lead	200.8	15 !	1.0	3.9	ug/L		10/26/20 12:49	4755156		

Sampling Point: RP10a BHFEA 50 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 12:52	4755157			
7439-92-1	Lead	200.8	15 !	1.0	2.9	ug/L		10/26/20 12:52	4755157			

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Sampling Point: RP10a BHFEA 50 5th Draw PWS ID: MI600

				Le	ad and (Copper				
nis re	oorangayenot ID#	be reprodu ged lex cept in full,	vithowie written a	pନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 12:55	4755158
	7439-92-1	Lead	200.8	15 !	1.0	2.9	ug/L		10/26/20 12:55	4755158

Sampling Point: RP10a BHFree 33 1st Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	5.8	ug/L		10/26/20 12:57	4755159
7439-92-1	Lead	200.8	15 !	1.0	4.1	ug/L		10/26/20 12:57	4755159



Report #: 501568

Sampling Point: RP10a BHFree 33 5th Draw

PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	6.6	ug/L		10/26/20 13:00	4755160
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		10/26/20 13:00	4755160

LABORATORY REPORT Sampling Point: RP10a BHFEA 22 1st Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	4.9	ug/L		10/26/20 13:03	4755161
7439-92-1	Lead	200.8	15 !	1.0	3.8	ug/L		10/26/20 13:03	4755161

Sampling Point: RP10a BHFEA 22 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	5.0	ug/L		10/26/20 13:06	4755162
7439-92-1	Lead	200.8	15 !	1.0	3.2	ug/L		10/26/20 13:06	4755162

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Sampling Point: RP10a BHFEA 37 1st Draw PWS ID: MI600

				Le	ad and (Copper				
nis re	oorAngaytenot ID#	be reprodu ged lex cept in full,	vithowie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 13:09	4755163
	7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		10/26/20 13:09	4755163

Sampling Point: RP10a BHFEA 37 5th Draw PWS ID: MI600

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/26/20 13:11	4755164
7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		10/26/20 13:11	4755164

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

ns



Report #: 501568

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

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00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICC\$) ବ୍ୟବ୍ୟ ବ୍ୟୁ ନିମ୍ବର dural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

RECEI VE

Dec 3 2020

EGLE-DWEHD-CWSS-LCU

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order # 409754

ARREAGO! Rechios Batch #

Eaton Analytical

RY REPORT OLLECTION TIME AM PM 6:00 ×	SAMPLER (Signature) Mike O'Malley COMPLIANCE MONITORING		# OI SMA	Contract to the section of	PROJECT NAME	#0 _d		-
. 5	Mike O'Malley COMPLIANCE MONITORING			STATE (sample origin)				
Y REPORT OLLECTION TIME AM PM 6:00 ×	COMPLIANCE MONITORING		009	IW	Lead and copper			
. 5	COMPLIANCE	Yes	POPULATION SERVED	SOURCE WATER	2nd half of 2020	505231	SA	
5		×	629'6	Lake Michigan	samples		BNIATN	CODE
DATE TIME AM PM 10/14/20 6:00 x	SAMPI ING SITE Print	SAMPI ING SITE Print cook is right digital cook lost	TEST NAME		SAMPLE REMARKS	CHLORINATED	E CO	XIAT
10/14/20 6:00 ×	_					YES NO	0#	AM
	RP10a BNFEA 130		Lead & Copper	Samo We Were medalidian	the draw	×	-	SW \$W
10114/20 6:00 × F	RP10a BHFEA130		1	had labels on both	5th draw	×	-	SW \$W
10/14/20 8:30 ×	RP10a BHFEA 16	1	Lead & Copper Of bottle	bottles and assecretist draw	1st draw	×	+	SW \$W
148 10/14/20 8:30 × F	RP10a BHFEA 16	-	4	to be a 2nd Sik for sen draw	5th draw	×	1	SW \$W
149 10/14/20 8:20 × F	RP10aBHFree 4		Lead & Copper BHFEA 50	1 50 55 10-30 1st draw	1st draw	×	1	SW \$W
150 10/14/20 8:20 × F	RP10aBHFree 4		Bother	5/6 tuil 55	5th draw	×	1	SW \$W
7:23 ×	RP10a BMFEA 18			10-16-31-31	1 St draw	×	-	SW \$W
162 10/14/20 7:23 × F	RP10a BNFEA 18		Lead & Copper		5th draw	×	-	SW \$W
153 10/14/20 7:00 × F	RP10a BHFree 84	-1	Lead & Copper		1st draw	×	1	SW \$W
15th 10/14/20 7:00 × F	RP10a BNFree 84	7	Lead & Copper	4	5th draw	×	+	SW \$W
155 10/14/20 8:00 × F	RP10a BMFree 22 Bottle	Shows i Capshow Bad & Copper	Lead & Copper	/	1st draw	×	1	SW \$W
V 156 10/14/20 8:00 × F	RP10a BMFree 22 BOHLL	shows 5	Ligad & Copper	/.	5th draw	×	-	SW \$W
			(aps swithed?	12) /55 10-14-36:30	3630			
	* No sanol	is Meured is	20-10-30-30 - See com oventa	e connert	Mon	56 10-20-203	3	

						1			
you h	you have any course from contrancing this report, prepse do not he state verbally (signature)	t, please do	TIMENERI	tatel Vocalinus ignature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT	QUEOUS SAMPLES TO CL	JENT
33	00) 332-4345 or (574) 233-4777.	10/16 Z	1	Marsh	19110	87	LAB COMMENTS		
	REEINQUISHED BY:(Signature)	DATE	AM PM TIME RE	AM KPM. TIME RECEIVED BY: (Signature)	DATE	AM PM			
nis rep	nis report may not be reproduced, except in full, without written approval from EEA.	II, without w	written app	oroval from EEA.		AM PM			
	RELINQUISHED BY: (Signature)	DATE	TIME RE	TIME RECEIVED FOR LABORATORY BY:	DATE	-	CONDITIONS UPON RECEIPT (check one):		
	MI	iolis 3	38		(1538	loed: Wet/Blue Ambient °C Upon Receipt.	leceipt X N/A	NA.
	1100	A	AM (PM)	000000000000000000000000000000000000000	ころう	AM PM			
	MATRIX CODES:	TURN-AROUN	ID TIME (TURN-AROUND TIME (TAT) - SURCHARGES					

RW*=Rush Verbal (3 working days) 50% W**=Immediate Whiten: (3 working days) 125% Separate Manipulating Will be provided according to the standard EEA/Water Services Terms, which are available for all to standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms, which are available for the standard EEA.Water Services Terms and are rejected unless to the standard EEA.Water Services Terms are the standard EEA.Water Services Terms a

125% 100%

IV* = Immediate Verbal: (3 working days)

SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days)

RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

DW-DRINKING WATER

NS

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Dec 3 2020

EGLE-DWEHD-CWSS-LCU Analytical

South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 110 S. Hill Street

Batch # Order #

SW SW SW SW 8W **ЗМІТ ФИЛОЯАИЯ** ОТ SW 2 SW 8W SW MATRIX CODE ō # OF CONTAINERS CHLORINATED ON. 2 505231 #0d Page YES × × × × × × × × Lead and copper 2nd half of 2020 2nd round of 10 SAMPLE REMARKS PROJECT NAME 1st draw 5th draw 5th draw 5th draw 1st draw 5th draw 1st draw 5th draw 1st draw 1st draw STATE (sample origin) SOURCE WATER Lake Michigan Ξ CHAIN OF CUSTODY RECORD TEST NAME POPULATION SERVED PWS ID # 9,639 10-11-3630 900 ead & Copper ead & Copper Lead & Copper ead & Copper ead & Copper ead & Copper ead & Copper Lead & Copper ead & Copper ead & Copper 400 2 Received SAMPLING SITE Yes Samples Mike O'Malley Individual residents RP10a BHFEA 130 5th Draw RP10a BHFEA 130 1st Draw RP10a BHFEA 37 5th Draw RP10a BHFEA 50 5th Draw RP10a BHFEA 50 1st Draw RP10a BHFree 33 1st Draw RP10a BHFree 33 5th Draw RP10a BHFEA 22 5th Draw RP10a BHFEA 37 1st Draw RP10a BHFEA 22 1st Draw SAMPLER (Signature) COMPLIANCE * No PM @cityofbentonbatbAR@RATORY REPORT AM COLLECTION TIME 6:10 6:10 5:10 5:10 8:00 8:30 8:30 6:00 6:00 8:00 Shaded area for EEA use only 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 10/14/2020 DATE Mike O'Malley, momalley@bhcity.us BILL TO: 28 29 160 www.EurofinsUS.com/Eaton 63 60 たらの 0 0 LAB Number ò S 47 REPORT TO m 4 S 9 ø 6 10 -12

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT N/A °C Upon Receipt Ambient CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue %001 LAB COMMENTS IV* = Immediate Verbal: (3 working days) AM PM 5:00 AM PW AM PM TIME TIME AM 0606-21-01 10/16 DATE DATE DATE RECEIVED FOR LABORATORY BY: you hawe any quaetto as concerning this report, please do Hoten state (安全部化多氧化氢氧氧化甲) 332-4345 or (574) 283-4777. RECEIVED BY:(Signature) TURN-AROUND TIME (TAT) - SURCHARGE: iis report may not be reproduced, except in full, without <u>written approval from EEA.</u> %0 SW = Standard Written: (15 working days) AM (PM 3:38 2 RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) DW-DRINKING WATER RW-REAGENT WATER MATRIX CODES.

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material afterations and are rejected unless expressly agreed to in writing by Page 1 of 7 06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20 Piegse call, expedited service not available for all testi WW-WASTE WATER

Samples received unamounter with less then 48 hours helding time requising

CALL CALL

125%

IW* =Immediate Written: (3 working days)

STAT" = Less than 48 hours

SP* = Weekend, Holiday

RW* ~ Rush Written: (5 working days) RV* = Rush Verbal: (5 working days)

GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER





LABORATORY REPORT

Eaton Analytical

LABORATORY REPORT

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Page 1 of 7

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	LABORATORY REPO	IN00035	Montana	CERT0026
	Arizona	AZ0432	Nebraska	NE-OS-05-04
	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida(Primary AB)*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon*	4156
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
you have any q	uestions kodiamia g Oheanistry ease do	not hesit@e7o1e0l1us at	South Carolina	95005
00) 332-4345 o	(574) Indiana Microbiology	M-76-07	South Dakota	IN00035
	lowa	098	Tennessee	TN02973
	Kansas*	E-10233	Texas*	T104704187
nis report may n	ot be reproduc kae extempkiy full, without w	ritten appr 9@056 n EEA.	Texas/TCEQ	TX207
	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
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	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Acerelalitation Bodies

Revision date: 09/29/2020

Attn:

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110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207

1 800 332 4345

Laboratory Report

City of Benton Harbor LABORATORY REPORT Client:

Michael O'Malley

200 East Wall Street Benton Harbor, MI 49002

502100 Report:

Priority: Standard Written

Status: Final PWS ID: MI600

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4759899	RP10bBHFEA 48 1st Draw	200.8	10/21/20 08:30	Client	10/26/20 11:00
4759900	RP10bBHFEA 48 5th Draw	200.8	10/21/20 08:30	Client	10/26/20 11:00
4759901	RP10bBHFree 29 1st Draw	200.8	10/21/20 03:00	Client	10/26/20 11:00
4759902	RP10bBHFree 29 5th Draw	200.8	10/21/20 03:00	Client	10/26/20 11:00
4759903	RP10bBHFree 69 1st Draw	200.8	10/20/20 17:00	Client	10/26/20 11:00
4759904	RP10bBHFree 69 5th Draw	200.8	10/20/20 17:00	Client	10/26/20 11:00
nav e 7an99% ues	tions concerning RAS PERME, prease to raw hesitate to call	us at 200.8	10/21/20 07:00	Client	10/26/20 11:00
332 4/3/4 /5008 (5	74) 233-4777. RP10bBHFree 1 5th Draw	200.8	10/21/20 07:00	Client	10/26/20 11:00
4759907	RP10bBHFree 53 1st Draw	200.8	10/21/20 10:00	Client	10/26/20 11:00
4759908	RP10bBHFree 53 5th Draw	200.8	10/21/20 10:00	Client	10/26/20 11:00
4759909 report may not h	RP10bBHFEA 12 1st Draw e reproduced, except in full, without written approval from	EEΔ 200.8	10/21/20 06:00	Client	10/26/20 11:00
4759910	RP10bBHFEA 12 5th Draw	200.8	10/21/20 06:00	Client	10/26/20 11:00
4759911	RP10bBHFree 67 1st Draw	200.8	10/21/20 08:00	Client	10/26/20 11:00
4759912	RP10bBHFree 67 5th Draw	200.8	10/21/20 08:00	Client	10/26/20 11:00
4759913	RP10bBHFree 56 1st Draw	200.8	10/20/20 23:00	Client	10/26/20 11:00
4759914	RP10bBHFree 56 5th Draw	200.8	10/20/20 23:00	Client	10/26/20 11:00

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for Page 1 of 7 analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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11/02/2020 Authorized Signature Title Date

Client Name: City of Benton Harbor

Report #: 502100

Report #: 502100

Sampling Point: RP10bBHFEA 48 1st Draw

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	6.5	ug/L		10/28/20 19:42	4759899
7439-92-1	Lead	200.8	15 !	1.0	2.1	ug/L		10/28/20 19:42	4759899

Sampling Point: RP10bBHFEA 48 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.4	ug/L		10/28/20 19:45	4759900		
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L		10/28/20 19:45	4759900		

Sampling Point: RP10bBHFree 29 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	36	ug/L		10/29/20 17:33	4759901		
7439-92-1	Lead	200.8	15 !	1.0	240	ug/L		10/29/20 17:33	4759901		

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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Sampling Point: RP10bBHFree 29 5th Draw PWS ID: MI600

	Lead and Copper											
s re	ooranaryte ^{not} ID#	be reprodu ced of the second o	vitho wie written a	pନ୍ତୁଧୁଣ୍ଡ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#		
	7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		10/29/20 17:36	4759902		
	7439-92-1	Lead	200.8	15 !	1.0	50	ug/L		10/29/20 17:36	4759902		

Sampling Point: RP10bBHFree 69 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	3.1	ug/L		10/29/20 17:38	4759903		
7439-92-1	Lead	200.8	15 !	1.0	5.2	ug/L		10/29/20 17:38	4759903		

Eaton Analyticabity of Benton Harbor



Report #: 502100

Sampling Point: RP10bBHFree 69 5th Draw

PWS ID: MI600

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		10/29/20 17:41	4759904			
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		10/29/20 17:41	4759904			

Sampling Point: RP10bBHFree 1 1st Draw

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	36	ug/L		10/29/20 17:44	4759905			
7439-92-1	Lead	200.8	15 !	1.0	2.6	ug/L		10/29/20 17:44	4759905			

Sampling Point: RP10bBHFree 1 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	42	ug/L		10/29/20 17:47	4759906		
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		10/29/20 17:47	4759906		

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Sampling Point: RP10bBHFree 53 1st Draw PWS ID: MI600

	Lead and Copper											
s re	ooranaryte ^{not} ID#	be reprodu ged of the second o	vitho wie written a	opନ୍ତୁଧୁଣ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#		
	7440-50-8	Copper	200.8	1300 !	1.0	52	ug/L		10/29/20 17:50	4759907		
	7439-92-1	Lead	200.8	15 !	1.0	6.9	ug/L		10/29/20 17:50	4759907		

Sampling Point: RP10bBHFree 53 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	44	ug/L		10/29/20 17:58	4759908		
7439-92-1	Lead	200.8	15 !	1.0	7.1	ug/L		10/29/20 17:58	4759908		

Eaton Analyticabity of Benton Harbor



Report #: 502100

Sampling Point: RP10bBHFEA 12 1st Draw

PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.2	ug/L		10/29/20 18:01	4759909		
7439-92-1	Lead	200.8	15 !	1.0	25	ug/L		10/29/20 18:01	4759909		

Sampling Point: RP10bBHFEA 12 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		10/29/20 18:04	4759910		
7439-92-1	Lead	200.8	15 !	1.0	25	ug/L		10/29/20 18:04	4759910		

Sampling Point: RP10bBHFree 67 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		10/29/20 18:12	4759911		
7439-92-1	Lead	200.8	15 !	1.0	8.7	ug/L		10/29/20 18:12	4759911		

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

Sampling Point: RP10bBHFree 67 5th Draw PWS ID: MI600

	Lead and Copper									
nis re	oorAngaytenot ID#	be reprodu ged lex cept in full,	vithowie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		10/29/20 18:15	4759912
	7439-92-1	Lead	200.8	15 !	1.0	4.2	ug/L		10/29/20 18:15	4759912

Sampling Point: RP10bBHFree 56 1st Draw PWS ID: MI600

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.9	ug/L		10/29/20 18:17	4759913
7439-92-1	Lead	200.8	15 !	1.0	7.0	ug/L		10/29/20 18:17	4759913

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Report #: 502100

Sampling Point: RP10bBHFree 56 5th Draw

PWS ID: MI600

Lead and Copper									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.0	ug/L		10/29/20 18:20	4759914
7439-92-1	Lead	200.8	15 !	1.0	8.3	ug/L		10/29/20 18:20	4759914

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:ABOF	RATORY REPORT	SMCL	AL	
Symbol:	*	۸	!	

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Report #: 502100

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

you have any questions concerning this report, please do not hesitate to call us at

00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) 99% of procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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CHAIN OF CUSTODY RECORD

order # 410336 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 EGLE-DWEHD-CWSS-LCU

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by 06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20 EEA.

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PURCHASE REQUISITION

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EGLE-DWE	HD-CWS	SS-LCU

REQUISITION #: \$05233

DATE: 10/66/20

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	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida(Primary AB)*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon*	4156
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
ou have any q	uestions loodiam a Ohne en ist ryease do	not hesit@te7o1e011us at	South Carolina	95005
00) 332-4345 o	(574) Indiana Microbiology	M-76-07	South Dakota	IN00035
	Iowa	098	Tennessee	TN02973
	Kansas*	E-10233	Texas*	T104704187
is report may n	ot be reproduc ké extrapkiy full, without w	ritten appr 9@05% EEA.	Texas/TCEQ	TX207
	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
	Michigan	9926	West Virginia	9927 C
	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Activation Bodies

Revision date: 09/29/2020

00)





110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207

1 800 332 4345

Laboratory Report

Client: City of Benton Harbor LABORATORY REPORT

Attn: Michael O'Malley

200 East Wall Street

Benton Harbor, MI 49002

Report: 502626

Priority: Standard Written

Status: Final

PWS ID: MI0000600

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4764970	RP10c BH Free 86 1st	200.8	10/29/20 07:00	Client	11/02/20 11:10
4764971	RP10c BH Free 86 5th	200.8	10/29/20 07:00	Client	11/02/20 11:10
4764972	RP10c BH FEA 38 1st	200.8	10/29/20 06:00	Client	11/02/20 11:10
4764973	RP10c BH FEA 38 5th	200.8	10/29/20 06:00	Client	11/02/20 11:10
4764974	RP10c BH Free 104 1st	200.8	10/29/20 08:30	Client	11/02/20 11:10
4764975	RP10c BH FEA 11 1st	200.8	10/29/20 08:00	Client	11/02/20 11:10
	tions concerning this report to call	us at 200.8	10/29/20 08:00	Client	11/02/20 11:10
332 4/845 107 (5	74) 233-4777. RP10c BH FEA 40 1st	200.8	10/29/20 07:30	Client	11/02/20 11:10
4764978	RP10c BH FEA 40 5th	200.8	10/29/20 07:30	Client	11/02/20 11:10

Report Summary

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Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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Page 1 of 7

Authorized Signature Title

Date

11/11/2020

Client Name: City of Benton Harbor

Report #: 502626

Eaton Analyticabity of Benton Harbor



Report #: 502626

Sampling Point: RP10c BH Free 86 1st

PWS ID: MI0000600

	Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/09/20 16:10	4764970					
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/09/20 16:10	4764970					

Sampling Point: RP10c BH Free 86 5th PWS ID: MI0000600

Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/09/20 16:12	4764971				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/09/20 16:12	4764971				

Sampling Point: RP10c BH FEA 38 1st PWS ID: MI0000600

Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		11/09/20 16:15	4764972				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/09/20 16:15	4764972				

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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Sampling Point: RP10c BH FEA 38 5th PWS ID: MI0000600

	Lead and Copper										
s re	ooranaryte ^{not} ID#	be reprodu ged ge cept in full, (vitho wie written a	pନ୍ତୁଧୁଣ୍ଡ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		11/09/20 16:22	4764973	
	7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/09/20 16:22	4764973	

Sampling Point: RP10c BH Free 104 1st PWS ID: MI0000600

	Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	4.7	ug/L	11/04/20 10:10	11/05/20 13:17	4764974					
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	11/04/20 10:10	11/05/20 13:17	4764974					



Report #: 502626

Sampling Point: RP10c BH FEA 11 1st

PWS ID: MI0000600

Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/09/20 16:24	4764975				
7439-92-1	Lead	200.8	15 !	1.0	7.0	ug/L		11/09/20 16:24	4764975				

Sampling Point: RP10c BH FEA 11 5th PWS ID: MI0000600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/09/20 16:27	4764976			
7439-92-1	Lead	200.8	15 !	1.0	11	ug/L		11/09/20 16:27	4764976			

Sampling Point: RP10c BH FEA 40 1st PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		11/09/20 16:29	4764977		
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L		11/09/20 16:29	4764977		

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00) 332-4345 or (574) 233-4777.

Sampling Point: RP10c BH FEA 40 5th PWS ID: MI0000600

	Lead and Copper										
nis re	oording by enot ID#	be reprodu ged let cept in full,	vitho wie written a	^{opନ୍} କୃଥିଣ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		11/09/20 16:32	4764978	
	7439-92-1	Lead	200.8	15 !	1.0	1.9	ug/L		11/09/20 16:32	4764978	

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

Page 1 of 7

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Report #: 502626

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

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If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

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00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) 99% of procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

50 50 3 35 24 54 35 35 5w 5w yes 500 TURNAROUND TIME 200 75 300 200 7 Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.
06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15 N/A Cross Off on COC by Client ON CHLORINATED of YES Order # Y Lead Spor X C Upon Receipt -メ × X Batch # XX 2020 alterations and are rejected unless expressly agreed to in writing by Page Residual Chlorine (P/A) Preservative Checks N 110 S. Hill Street South Bend, IN 46617 T: 1 Rnn 225 pH accep-table? √ T: 1.800.332.4345 F: 1.574.233.8207 サントンナン 5th day かんない Str Land 13+ An CENTED IN Lebe out 17 134 TIME

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CONDITIONS UPON RECEIPT (check one): イン 16.5/congrer Les per Cand a sper 01,10 TEST NAME Gegre 0000 tout to the 600 AC 100% 125% CALL CALL 0090 719 PWS ID# real is report may node reproduced المُوقوع، Lead 1 NY = Immediate downs and part of part 0 -47-100 J Tot CH S-toly 7 + 十一 3 PI Service ətştiqət -04 34 Free 184 3H Free 36 86 3H F24 40 られ「かれい 34FEA 11 Residents www.wws.te water.

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PURCHASE REQUISITION

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REQUISITION #: \$05243

DATE:

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VENDOR: Eurosins Ector Analytical (10 5. Hill St. South Bend DN 46617	CONTACT NAME: 2 thalk 2020 4 the
MUEDE	UNIT PRICE TRADE

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LABORATORY REPORT

Eaton Analytical

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	Arizona	AZ0432	Nebraska	NE-OS-05-04	
	Arkansas	IN00035	Nevada	IN00035	
	California	2920	New Hampshire*	2124	
	Colorado	IN00035	New Jersey*	IN598	
	Colorado Radiochemistry	IN00035	New Mexico	IN00035	
	Connecticut	PH-0132	New York*	11398	
	Delaware	IN035	North Carolina	18700	
	Florida(Primary AB)*	E87775	North Dakota	R-035	
	Georgia	929	Ohio	87775	
	Hawaii	IN035	Oklahoma	D9508	
	Idaho	IN00035	Oregon*	4156	
	Illinois*	200001	Pennsylvania*	68-00466	
	Illinois Microbiology	17767	Puerto Rico	IN00035	
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343	
you have any qı	uestions kodiama g Ohernistny ease do	not hesit @e7 d /sØl1 us at	South Carolina	95005	
00) 332-4345 o	(5 ⁷⁴⁾ Indiana Microbiology	M-76-07	South Dakota	IN00035	
	lowa	098	Tennessee	TN02973	
	Kansas*	E-10233	Texas*	T104704187	
nis report may n	ot be reproduc ká pricipky full, without w	ritten appr 9/0/5/6 n EEA.	Texas/TCEQ	TX207	
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	Maine	IN00035	Vermont	VT-8775	
	Maryland	209	Virginia*	460275	
	Massachusetts	M-IN035	Washington	C837	
	Michigan	9926	West Virginia	9927 C	
	Minnesota*	018-999-338	Wisconsin	999766900	
	Mississippi	IN035	Wyoming	IN035	
	EPA	IN00035			

*NELAP/TNI Recognized Acerelalitation Bodies

Revision date: 09/29/2020





110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

City of Benton Harbor LABORATORY REPORT Client:

Attn: Rob Jones

27725 Stansbury Blvd

Suite 195

Farminton Hills, MI 48334

Report: 503861

> Priority: Standard Written

Status: Final

PWS ID: MI0000600

	Sample	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4775351	1248 Broadway 1st	200.8	11/09/20 18:00	Client	11/13/20 12:45
4775352	1248 Broadway 5th	200.8	11/09/20 18:00	Client	11/13/20 12:4
4775353	885 Mineral 1st	200.8	11/09/20 20:00	Client	11/13/20 12:4
4775354	885 Mineral 5th	200.8	11/09/20 20:00	Client	11/13/20 12:4
4775355	578 Edwards 1st	200.8	11/09/20 20:45	Client	11/13/20 12:4
4775356	578 Edwards 5th	200.8	11/09/20 20:45	Client	11/13/20 12:4
av e 7an∳%§uesti	ions concerning this ੀਰੀਐਰਾ,ੈਐਵਿਸ਼ਫ਼ ਚੈਰ not hesitate to call ।	ıs at 200.8	11/10/20 08:30	Client	11/13/20 12:4
32 4/3/453.58 (57	(4) 233-4777. 1191 Pavone 5th	200.8	11/10/20 08:30	Client	11/13/20 12:4
4775359	285 Hasting 1st	200.8	11/10/20 06:30	Client	11/13/20 12:4
4775360	285 Hasting 5th	200.8	11/10/20 06:30	Client	11/13/20 12:4
4775361	768 Broadway 1st e reproduced, except in full, without written approval from	EEA 200.8	11/10/20 09:00	Client	11/13/20 12:4
4775362	768 Broadway 5th	200.8	11/10/20 09:00	Client	11/13/20 12:4
4775363	1225 Colfax 1st	200.8	11/09/20 18:00	Client	11/13/20 12:4
4775364	1225 Colfax 5th	200.8	11/09/20 18:00	Client	11/13/20 12:4
4775365	1115 Superior 1st	200.8	11/05/20 06:00	Client	11/13/20 12:4
4775366	1115 Superior 5th	200.8	11/05/20 06:00	Client	11/13/20 12:4
4775367	1026 Bishop 1st	200.8	11/09/20 21:30	Client	11/13/20 12:4
4775368	1026 Bishop 5th	200.8	11/09/20 21:30	Client	11/13/20 12:4
4775369	141 Winah 1st	200.8	11/09/20 07:50	Client	11/13/20 12:4
4775370	141 Winah 5th	200.8	11/09/20 07:50	Client	11/13/20 12:4
4775371	1112 Agard 1st	200.8 age 1 of 7	11/10/20 07:00	Client	11/13/20 12:4
4775372	1112 Agard 5th	200.8	11/10/20 07:00	Client	11/13/20 12:4
4775373	1069 Hurd 1st	200.8	11/10/20 08:00	Client	11/13/20 12:4
4775374	1069 Hurd 5th	200.8	11/10/20 08:00	Client	11/13/20 12:4
4775375	819 Vineyard 1st	200.8	11/10/20 06:00	Client	11/13/20 12:4
4775376	819 Vineyard 5th	200.8	11/10/20 06:00	Client	11/13/20 12:4
4775377	1020 Bishop 1st	200.8	11/10/20 09:00	Client	11/13/20 12:4
4775378	1020 Bishop 5th	200.8	11/10/20 09:00	Client	11/13/20 12:4

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Eaton Analyticabity of Benton Harbor

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Dec 3 2020

Report #: 503861

Detailed quantitative results are presented on the fc analysis.

EGLE-DWEHD-CWSS-LCU

presented relate only to the samples provided for

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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LABORATORY REPORT

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Page 1 of 7

Authorized Signature

City of Benton Harbor

Report #: 503861

Client Name:

Title

11/19/2020

Date



Report #: 503861

Sampling Point: 1248 Broadway 1st

PWS ID: MI0000600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/18/20 14:02	4775351			
7439-92-1	Lead	200.8	15 !	1.0	4.1	ug/L		11/18/20 14:02	4775351			

Sampling Point: LABORATORY REPORT 1248 Broadway 5th PWS ID: MI0000600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/18/20 14:05	4775352	
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		11/18/20 14:05	4775352	

Sampling Point: 885 Mineral 1st PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.2	ug/L		11/18/20 14:07	4775353		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:07	4775353		

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Sampling Point: 885 Mineral 5th PWS ID: MI0000600

	Lead and Copper									
nis re	ooramanytenot ID#	be reprodu ged_{il}gre cept in full,	vitho wie written a	opନ୍ତୁଧୁଣ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	5.5	ug/L		11/18/20 14:15	4775354
	7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:15	4775354

Sampling Point: 578 Edwards 1st PWS ID: MI0000600

	Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	19	ug/L		11/18/20 14:17	4775355				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:17	4775355				

Eaton Analyticabity of Benton Harbor



Report #: 503861

Sampling Point: 578 Edwards 5th PWS ID: MI0000600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	150	ug/L		11/18/20 14:19	4775356			
7439-92-1	Lead	200.8	15 !	1.0	6.6	ug/L		11/18/20 14:19	4775356			

Sampling Point: LABORATORY REPORT
1191 Pavone 1st PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		11/18/20 14:22	4775357		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:22	4775357		

PWS ID: MI0000600 Sampling Point: 1191 Pavone 5th

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		11/18/20 14:24	4775358		
7439-92-1 Lead 200.8 15 ! 1.0 1.6 ug/L 11/18/20 14:24 477											

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Sampling Point: 285 Hasting 1st PWS ID: MI0000600

	Lead and Copper									
nis re	ooramanytenot ID#	be reprodu ged_{il}gre cept in full,	vitho wie written a	opନ୍ତୁଧୁଣ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	7.2	ug/L		11/18/20 14:27	4775359
	7439-92-1	Lead	200.8	15 !	1.0	1.6	ug/L		11/18/20 14:27	4775359

Sampling Point: 285 Hasting 5th PWS ID: MI0000600

	Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		11/18/20 14:29	4775360				
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		11/18/20 14:29	4775360				

Eaton Analyticabity of Benton Harbor



Report #: 503861

Sampling Point: 768 Broadway 1st

PWS ID: MI0000600

PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		11/18/20 14:37	4775361		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:37	4775361		

Sampling Point: ABORATORY REPORT 768 Broadway 5th

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		11/18/20 14:39	4775362		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 14:39	4775362		

Sampling Point: 1225 Colfax 1st PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		11/18/20 14:41	4775363		
7439-92-1	Lead	200.8	15 !	1.0	4.5	ug/L		11/18/20 14:41	4775363		

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Sampling Point: 1225 Colfax 5th PWS ID: MI0000600

	Lead and Copper									
nis re	ooramanytenot ID#	be reprodu ged_{il}gre cept in full,	vitho wie written a	opନ୍ତୁଧୁଣ୍ଡ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#
	7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		11/18/20 14:49	4775364
	7439-92-1	Lead	200.8	15 !	1.0	3.2	ug/L		11/18/20 14:49	4775364

Sampling Point: 1115 Superior 1st PWS ID: MI0000600

	Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	51	ug/L		11/18/20 14:51	4775365				
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		11/18/20 14:51	4775365				



Report #: 503861

Sampling Point: 1115 Superior 5th PWS ID: MI0000600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III											
7440-50-8	Copper	200.8	1300 !	1.0	54	ug/L		11/18/20 14:54	4775366		
7439-92-1	Lead	200.8	15 !	1.0	3.9	ug/L		11/18/20 14:54	4775366		

Sampling Point: LABORATORY REPORT 1026 Bishop 1st PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	45	ug/L		11/18/20 14:56	4775367		
7439-92-1 Lead 200.8 15! 1.0 5.5 ug/L 11/18/20 14:56 47											

Sampling Point: 1026 Bishop 5th PWS ID: MI0000600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		11/18/20 14:59	4775368	
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L		11/18/20 14:59	4775368	

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Sampling Point: 141 Winah 1st PWS ID: MI0000600

		Lead and Copper									
nis re	ooramanytenot ID#	be reprodu ged_{il}gre cept in full,	vitho wie written a	opନ୍ତୁଧୁଣ fi Limit	DMMRE#	Result	Units	Preparation Date	Analyzed	EEA ID#	
	7440-50-8	Copper	200.8	1300 !	1.0	2.4	ug/L		11/18/20 15:01	4775369	
	7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 15:01	4775369	

Sampling Point: 141 Winah 5th PWS ID: MI0000600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	4.5	ug/L		11/18/20 15:03	4775370			
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		11/18/20 15:03	4775370			

Eaton Analyticabity of Benton Harbor



Report #: 503861

Sampling Point: 1112 Agard 1st PWS ID: MI0000600

Lead and Copper										
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III										
7440-50-8	Copper	200.8	1300 !	1.0	8.2	ug/L		11/18/20 15:16	4775371	
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 15:16	4775371	

Sampling Point: LABORATORY REPORT 1112 Agard 5th PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		11/18/20 15:18	4775372		
7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		11/18/20 15:18	4775372		

PWS ID: MI0000600 Sampling Point: 1069 Hurd 1st

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	25	ug/L		11/18/20 15:21	4775373		
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 2.9 ug/L 11/18/20 15:21 477										

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Sampling Point: 1069 Hurd 5th PWS ID: MI0000600

	Lead and Copper											
s re	ooranaryte ^{not} ID#	be reprodu ced of the second o	vitho wie written a	opଜ୍ଜୁଣ fi Limit	Þ MMÆE ∰.	Result	Units	Preparation Date	Analyzed	EEA ID#		
	7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		11/18/20 15:28	4775374		
	7439-92-1	Lead	200.8	15 !	1.0	3.7	ug/L		11/18/20 15:28	4775374		

Sampling Point: 819 Vineyard 1st PWS ID: MI0000600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result Page 1	Units of 7	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	4.8	ug/L		11/18/20 15:30	4775375			
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L		11/18/20 15:30	4775375			

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7439-92-1

Lead



Report #: 503861

PWS ID: MI0000600

11/18/20 15:33

4775376

Sampling Point: 819 Vineyard 5th

200.8

Lead and Copper Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed **EEA** ID# Limit Date ID# 7440-50-8 1300! 2.4 200.8 1.0 4775376 Copper ug/L 11/18/20 15:33

1.0

2.4

ug/L

Sampling Point: LABORATORY REPORT
1020 Bishop 1st PWS ID: MI0000600

15!

Lead and Copper											
Analyte ID #											
7440-50-8	Copper	200.8	1300 !	1.0	14	ug/L		11/18/20 15:35	4775377		
7439-92-1											

Sampling Point: 1020 Bishop 5th PWS ID: MI0000600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	5.8	ug/L		11/18/20 15:38	4775378		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/18/20 15:38	4775378		

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you i	iave any questions concerning	tilis report, piease do not ries	itate to call us at	
00) 3	32-4345 ræ g(/5i7/4t)12/pe: 4777.	MCL	SMCL	AL
	Symbol:	*	۸	!

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Report #: 503861

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

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00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICC\$) ବ୍ୟବ୍ୟ ବ୍ୟୁ ନିମ୍ବର dural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



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Eaton Analytical

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F: 1.574.233.8207

Order#

Batch # 50380

CHAIN OF CUSTODY RECORD								
Shaded area for EEA use only REPORT TO:	loans as					Page of		
Poh Towas ()	SAMPLER (Signature)		PWS ID#	STATE (sample origin)	PROJECT NAM	ME PO#		-
REPORT TO: Rob Jones F+V BILL TO: Riones @ FV-operations.com Benta Harbor COLLECTION DATE TIME AM PM	Resident YOS		0600	ml				
Riones @ FV-operations.com	MONITORING Yes	No	POPULATION SERVED	SOURCE WATER			RS RS	IME
LAB Number Benten HAIBO	X	4	9160	michigan	Preservative Che	ecks	INTAINERS	URNAROUND T
	SAMPLING SITE		TEST NA		pH Residue Chlo	orine CHLORINATED	# OF COI	SNAR
119/20 6:00 X	1248 Brageway		15T /1+er 6	endlopper	table? √ (P/.		# WA	Ę
353 1119/20 8 00 Y	1248 Broadway		5th liter	end copper	5	V	Pa	
359 1119/20 8 00 V	885 MINERAL		IST liter	end Jopper	age	/	11	
254 11/01	578 Edwards			lend lie brel		V	11	
> 2 8 356 11/9/20 8 4C X	578 Edwards		1st hiter	end/copper		V	1/	
00 35 1110 to 8:30 x	1191 PAVONE	at	1st liver	Jeny 10 pper		V	11	,
11/10/20 45.30 4	1191 PAVONE	<u>s</u>	5th Hiter	Trad copper		V	11	1
359 11/0/20 670 X	285 HASTING	- T	Ist A Ler	1440 copper		V	11	
1/10/20 630 X	285 HASting	<u>ئ</u> و	TTI FELOR	lend copper		1		-
2 362 11/10/20 9:00 X	768 Bicaguray			Land Landact				-
3/03 1/19/22 6:45	768 Broadway	ata	5th later	1840 110 MART		V	_	-
301 1/9/20 dies X	1225 colfay	hesitate	151 19401	lend scopper		V	_	_
	120) (01+4)	not	5th peter	Itus /copper		V		
	RECEIVED BY:(Signature)	DATEO	TIME LAB RESERVES TH	IE RIGHT TO RETURN UNUSED PORTIONS	OF NON-AQUEOUS SAM	MPLES TO CLIENT		
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RELINQUISHED BY:(Signature) AM PM TIME R	FORMED FOR A STATE OF THE STATE	e bo	AM PM S	/				_
	ECEIVED FOR LABORATORY BY:	DATE	TIME CONDIONS UPON RECE	Pf (check one):				
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DW-DRINKING WATER RW-REAGENT WATER GW- GROUND WATER EW-EXPOSURE WATER SW- SW = SM and Written: (15 works) SW = SM and Written: (15 works) SW = SM and Written: (15 works)	17 - SUFAHARGES yog days) 0% RV* = Rush Verbat (5 working days) yo days) 75%	PA = Immedian	4					
WW-WASTE WATER PW-POOL WATER	rice not available for all testing	=Immediate Sitten	bal: (3 working days) SFO= 125% CALL			nannounced with less than 48 h be subject to additional charge	ours holding	
Ccal	The state of the s	STAT* = Less (DarCV)	hours CALL		06-LO-F0435 Issue	B.0 Effective Date 2020-(05-15	
英		tior 74)	e e					
To ple analysis will be provided according to the standard EEA/Water Services Term	ns, which are available upon request. Any other terms	proposed by 5 uct	7					
A n	and terms	> 10	are deemed caterial alterations a	nd are rejected unless express	sly agreed to in writi	ting by		
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110 S. Hill Street South Bend, IN 46617 T: 1,800,332,4345

Page 13 of 13

			Eato	n Analyti	cal					F: 1.574.23		Bat	1ch # 50	311	01	
www.EurofinsUS.com/Eaton CHAIN OF CUSTO	DY RECORI)										Pag	ge of _			
REPORT TO:				SAMPLER (Signature)			-	PWS ID#		STATE (sample origin)	I ppoin					
								7 110 10 #		STATE (sample origin)	PROJE	CT NAME	PO#			
DILL TO																
BILL TO:				COMPLIANCE MONITORING	Yes	No	PO	PULATION SERVE	ED	SOURCE WATER				AINERS		D TIME
LAB Number	COL	LECTION									Preserva	live Checks		IATA	00	NO NO
	DATE	TIME	AM PM		SAMPLING SITE				TEST NAME		pН	Residual	CHLORINAT	ED O	×ia	TURNAROUND
1 4775365	1111								1231 IAVIVIE	1	accep- table? √	Chlorine (P/A)	YES 1	10 0	MATRIX	L'AN
366	11/5/20	6:00	X	1115 Superi			157	liter	/en	1, copper			1	- 1	-	-
3107	11/9/20	930	X	1/15 Superio			374	liter	144	Copper	9					
3 368	1//9/20	930	X	1026 Kisho			IST	lifer	1240	160pper	age age		1			
210/3	11/4/20	750	y	1036 Bish			5 71	11,17	Tend	lo pper	1					
2020 3770 377	1/19/20	750	X	141 winds			151	liter	184							
2020 271	11/10/20	700	x	1112 AgA			57	- 11	124				2			
m = 372		700	x	11/2 Ago	und	4	51			no copper			1			
J v 🗏 <u>373</u>		800	X	1069 History		s _n	1			He Lopper						
9 8 374 374	11/10/20	800	X	1069 Hu	no I	<u></u>	15	-1 0 1		end /cepper			V			
2/5	11/10/20	600	4	8/9 VINA		ę	15			ene copper			-	_	-	
<u> </u>	11/10/20	600	X	8/9 VI48	Hrd	ate	57	h 00/1/4					1	-	- 1	_
377	11/10/20	900	X	1020 \$13/08		<u>S</u> .	15		ter	1011 11	-		V	-	+	_
378	11/10/20	900	x	1020 BISH	OP	the	5	Th & 11	100 1	end Codort				+	+	-
RELINQUISHED BY:(Signature)		EPOR.	TIME	RECEIVED BY:(Signature)	•	DATE	TIME	#		GHT TO RETURN UNUSED PORTION					-	
		Ŏ				DATEO	TIME	LAB SOMMENT:		SHI TO RETURN UNUSED PURTIDI	IS OF NON-AQU	EOUS SAMPLES I	TO CLIENT			
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F1.11.0.11.0.11.0.11.0.11.0.11.0.11.0.1		<u>K</u>	AM PM			<u>o</u>	AM I DIA	in fu								
ELINOUISHED BY (Signature)		D/Q	TIME	RECEIVED FOR LABORATO	DRY BY:	Tebout, E	AM PM	CONDITIONS UP	ON RECEIPT	(check one):						
		RA.		1	1.191	11-1=	1245	Olced: Wet	/Blue	Ambient		°C Upon F	Receipt	,	N/A	
MATRIX CODES:	71	IRICA POUI	AM PM	AT) - SURCHARGES	of Clift	702æ	AM PM	ě								
DW-DRINKING WATER RW-REA	GENT WATER GW- SV	V = Gandard V	Vritten /15 wort	king days) ON DUE - Dust Van	hal (5 working days)	IV* = Immeetin		99								
GROUND WATER EW-EXPOSUR SURFACE WATER PW-POOL WATE	RE WATER SW-	% RW1 = Rush	Written: (5 wor	king days) 75%		=immediate.vvni	ion: (3 working	days) SD* =	100%		Samples re	ceived unanno	unced with less t	han 48 hou	rs holdin	ng
WW-WASTE WATER		icase can, c	xpedited se	ervice not available for all te	sting	Weekend, Police STAT* = Less the	8 hours	Q	CALL		06-LO-F04	35 Issue 8.0	Effective Date	2020-05-	15	
	1						$\overline{}$	Đ.								
nple analysis will be provided ac	coording to the standar	d FFA/Water	Services To	rme which are every-t-t-		Sti	ò	t be								
A	and an annual	- LUVITAGE	ocivides (e)	ms, which are available upor	request. Any other ter	rms proposed by	stomer are d	eemecenaterial al	Iterations and	are rejected unless expre	ssly agreed	to in writing b	ту			
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MI 0600 Benton Heibor Lead & Copper June 2000

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION



LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A - SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

	1. Supp	oly Name:	Benton Harbo	r				31:30 2
	2. Cou	ntv:	Berrien			3. W	/SSN:	0600
		ulation:	9670	5. Mo	nitoring Period:	From: 1/1/2020	To	6/30/2020
			amples Require	ed:	60	7. # of Samples	Taken:	63
			ed Laboratory:		Eurofins Eaton Ar	nalytical, South Ber	nd IN.	
MPLE	E CRITI	ERIA:					aamnia	e from sites WITI
his	form i	s for wate LEA	r supplies co D SERVICE L	llecti LINES	ng <u>some</u> or <u>all</u> S. All other sup	plies should use	Form	es from sites WITI B.
es l	No							
Х		Are some o	r all samples fro	om sit	es WITH lead ser	vice lines?		
16.0					ice line, STOP and		F	or more information
	-	Did pri	oritizo cample c	ollect	ion according to the	ne following:	27.000	ee Instructions item 1 ier and Sample
X	Did was prioritize sample				iless insufficient i	let I sites available		ategory" at the end o
		If impose	Figiant Tion 2 site	ac the	en Tier 3 sites mu	st be used.		e document.
		If an Ti	ar 1 2 or 2 cito	916 26	available, sites IT	ust be representati	ve	
		of plun	bing materials	typica	ally found throught	out the water system	111	
	х	Were the s	ame sampling s	sites u itional	used as in the pre- pages if needed)	vious monitoring pe	, iou :	
	1 1	II IIO, expi	1 -10 16	N	o become	e gove a	here	& some were
		190	2 90 9	-				
Com	ments:	some sami	oling locations th	hat we	ere sampled in pre	evious years.		
Mos	t were I	ikely new lo	cations.			Luci	doc	ment is
1	his	Preform	reted EG	118	Versien	in word e & see		
di	170	Lesal	to use.	-	Try it one	e & see	wheel	IMEAN AL
41		100				A		Me
	IATURE		4.44			MAI		
Name	e: M	te O	dolley eforth Cl		Signature:	March -		11.
Title	: Wa	for Open	efor IN Cl	lasse	Phone:	163-05	75 Da	te: 1/2/26
				1	Michigan.gov/EG	SLE	Fe	evised EQI
LE E	nvironm ne:1-80	nental Assis 10-662-9278	tance Center		Page 1 of 10			Rev.
20110								

MI 0600 Benton Hesbor Lead Caper 1/1/20 to 6/20/20 Pleines

Category Building Service Line Tap Type A Liter Samble Lead Likely = lead Likely Lead Sample Lead Sample Lead Sample Lead Sample Lead Sample Lead Sample Lead Lead Likely Lead Lead Sample Lead Lead Lab Lab Lead Lab Lab Lead Lab Lab	RP21 RP23 RP24 RP25	RP15 RP16 RP17 RP19	Sample Location RP2 RP3 RP5 RP6 RP7 RP10 RP11	Sheet (
Tier Category Building Service Line Tap Type Iter Samble Lead Copper Lab Lead L	4/29/2020 4/30/2020 4/28/2020 4/29/202 5/6/202	4/29/2020 4/29/2020 4/29/2020 4/28/2020 4/28/2020	Sample Date 4/30/2020 4/28/2020 4/29/2020 4/29/2020 4/29/2020 4/29/2020 4/29/2020 4/29/2020 4/29/2020	of
Category Building Service Line Tap Type 1st Liter Samble Lead Liter Samble Lead Le	0 0 0 0	,00000	Tier	der
Service Line Tap Type	D D D D	A A A A A		Category
Very Likely = known Likely = lead	Unknow Unknow Unknow	Unknown Unknown Unknown Unknown Unknown Unknown	Plumbing Unknown	Building
Lead Copper Lab Lead O 1.4 4621306 O 2.5 4621307 O 2.5 4621310 O 2.1 4621311 5.2 150 4621312 O 2.1 4621313 3 1.3 4621313 7.2 3 4621314 1.3 3 4621315 7.2 3 4621316 7.2 3 4621317 O 8.9 4621317 O 8.9 4621321 O 2.3 4621318 O 2.3 4621321 O 3.8 6.8 4621321 O 1.1 9.4 4624126 O 1.8 13.0 4624129 O 0 8.7 4624129	1 1 1 1 1		3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Service
ad Copper Lab Lead Sample ug/L Number ug/L 0 4621307 1.2 0 4621309 0 2.5 4621310 5.2 150 4621312 0 2.1 4621313 3 1.3 4621313 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621315 7.2 3 4621321 7.7 0 4621321 7.7 0 2.3 4621321 7.7 0 2.3 4621321 7.7 0 2.3 4621321 7.7 0 2.3 4621321 7.7 0 2.3 4621321 7.7 0 2.3 4621321 7.7 4621322 7.3 4621322 7.3 4621322 7.3 4621323 7.3 4621323 7.3 4621323 7.3 4621323 7.3 4621323 7.3 4624126 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	ery Likely ery Likely kely ossible	kely le lkely	ikely * own lead lead area kely kely kely le	Line
iter Samble Lab Sample Sample Jg/L 1.4 4621306 4621307 2.5 4621309 2.5 4621310 150 4621311 2.1 4621312 1.3 4621313 5.7 4621314 3 4621315 3 4621317 4621319 8.9 4621320 2.3 4621321 17 4621320 2.3 4621321 17 4621322 3 4621323 5.8 4621324 4621324 9.4 4624127 0 4624128 13.0 4624128 13.0 4624128		SV V	" 6	
ample lumber ug/L 4621306 4621310 4621311 4621314 4621317 4621317 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621321 4621322 4621322 4621323 4621322 4621323 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4621324 4624128 4624128 4624128 4624128 4624130	Kitchen Kitchen Kitchen	Kitchen Kitchen Kitchen Kitchen Kitchen Kitchen	Kitchen	Тар Туре
Lead Ug/L	Kitchen 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Kitchen	Kitchen	Тар Туре
	Kitchen 0 17 Kitchen 0 2.3 Kitchen 3.8 6.8 Kitchen 1.1 9.4 Kitchen 1.1 0	Kitchen 1.7 0 0 1.7 0 0 0 0 0 0 0 0 0	* Kitchen Lead Copper La Ug/L Ug/L Nu Kitchen	Тар Туре
omple mber 4621325 4621327 4621327 4621329 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621333 4621341 4621341 4621341 4621341 4621341 4621341 4621341	Kitchen 0 17 4621322 Kitchen 0 2.3 4621323 Kitchen 3.8 6.8 4621324 5 Kitchen 1.1 9.4 4624126 Kitchen 1.1 0 4624127	Kitchen 1.7 0 4621317 0 0 0 0 0 0 0 0 0	* Kitchen Lead Copper Lab Copper Lab Sample Sample Lead Mg/L Lead Mg/L Copper Lab Sample Sample Sample Sample Sample Sample Sample Sample Number Ug/L Lead Mg/L Copper Lab Sample	Tap Type

If you tried to Gill in Pige 1 of the report trydoing this Rise this Even!

11. TAP SAMPLING DATA

KPC 10	DDC 10	RPC 9	RPC 8	RPC /	DDC 7	RPC 6	RPC 5	RPC 4	RPC 3	RPC 2	RPC 1	rpb21	rpb20	rpb19	rpb18	rpb17	rpb16	rpb15	rpb13	rpb12	rpb11	rpb10	rpb9	rpb8	rpb7	rpb6			Location	Sample			
01001000	5/13/2020	5/13/2020	5/13/2020	2/12/2020	5/13/2020	5/13/2020	5/1,2/2020	5/12/2020	5/13/2020	5/13/2020	5/13/2020	5/8/2020	5/7/2020	5/5/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/8/2020	-			Sample Date	1	T	-
	1 A	1 A	I A	1 1	1 A	1 A	1 A	1 A	1 A	J A	1 A	1 A	1 A	1 A	1 A	J. A	J A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	IA)	_	Tier Category
Linknown	Unknown	Unknown	Cilianow	Unknown	Unknown	Unknown	Unknown	Unkriown	Unknown	Unkriown	Unknown	Unkriown	Unknown	Unknown	Unkriown	Unknown	Unknown	Unknown	Unknown	UNKNOWN	UNKNOWN	Unknown	Unknown	UNKNOWN	UNKIIOWII	CHANGAN	laka			Unknown	Superior	Plumbing	Building
	_			_		-	4	_	_	_		-	-	_	_	_	-	-	very Likely	Very Likely	Very Likely	likely	VELY LINCIY	Very Likely	Very Likely	very Likely	vory likely	Lead in area	Hedrovn =	Likely - lead	known	Very Likely ≥	Service Line
very likely	kely	EIY	V .	V	Y	1	1	1	1	1	1	1	1	1	1	ſ	1	1	1		-1	1	1	-			_						-
likely Kitchen		1	1	ly Kitchen		1		Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen				T	Kitchen	lap lype
Kitchen	Kitchen	Nitchon	Kitchen	Kitchen	Kitchen	Nicolicii	Kitchen		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	Kitchen 2.4	ng/L		Lead			lap lype
Kitchen	Kitchen	Nicobon O	Kitchen 22	Kitchen 1.5	Kitchen	Nicolary O	Kitchen 0	0	29	1.5	2.4	0	3,5	100.0	0.0	0.0	0.0	2.4	6.2	0.0	8.5	9.2	5.7	3,6	21.0	0.0	2.4	ng/L ng/r		Lead Copper			181
Kitchen	Kitchen	Nitchon 0	Kitchen 22 7.3	Kitchen 1.5 9.1	Kitchen	Vichon 0 2.5	Kitchen 0 18	0 3.2	29 4.4	1.5 2.6	2.4 2.1	0 10	3.5 230.0	100.0 5.4	0.0 2.2	0.0 1.2	0.0 1.4	2.4 1.7	6.2 48.0	0.0 4.1	1	9.2 2.0	5.7 2.3	3.6 1.1	1	1			//	Copper			
Kitchen U /.0 4023403	Kitchen 78	Vitobon 0 0	Kitchen 22	Kitchen 1.5 9.1 4629460	Kirchen 9 1 4629480	Nichon 0 2.5	Kitchen 0 18	0	29 4.4	1.5 2.6	2.4 2.1	0	3,5	100.0	0.0 2.2	0.0 1.2	0.0 1.4	2.4 1.7	6.2 48.0	0.0 4.1	8.5 6.4	9.2 2.0	5.7 2.3	3.6 1.1	21.0 4.4	0.0 3.2	2.4 1.7	ug/r	Sample lig/L	Copper Lab		- Eller delliple	1st Liter Sample
Kitchen 0 /:0 +025705	Kitchen 0 7.8 4639483	0 0 4629482	Kitchen 22 7.3 4629481 18 /-	Kitchen 1.5 9.1 4629480	Kitchen 9 1 A639480	0 2.5 4629479	(itchen 0 18 4629478	0 3.2 4629477	29 4.4 4629476 11	1.5 2.6 4629475 1.5	2.4 2.1 4629474 2 1	0 10 4629473 0	3.5 230.0 4624145	100.0 5.4 4624144 5.3	0.0 2.2 4624143 0.0	0.0 1.2 4624142 0.0	0.0 1.4 4624141 0.0	2.4 1.7 4624140 1.3	6.2 48.0 4624139	0.0 4.1 4624138	8.5 6.4 4624137 5.3	9.2 2.0 4624136	5.7 2.3 4624135	3.6 1.1 4624134 7.9	21.0 4.4 4624133	0.0 3.2 4624132 0.0	2.4 1.7 4624131 1.3	ug/r	Sampler ug/L ug/L	Copper Lab Lord mg/L		- Eller delliple	181

11. TAP SAMPLING DATA

Oligon	Tier	Tier	Categoly A	Building Plumbing	Service Line Very Likely ≈ known	x d	Tap Type Kitchen	1	1	titchen 1 st Liter Sample	1 st Liter Sample
Sample	Sample Date	-		Unknown	Likely = lead nearbv Unknown =			Lead (ad Copper	ad Copper Lab Sample ug/L Number	ad Copper Lab Sample ug/L Number ug/L
					Lead in area	\$	chen	chen 2.2	2	2.2	2.2 5
RPC 12	5/13/2020		1 A	Unknown	very Likely	5 2	Kitchen			0	0 1.1
RPC 13	5/12/2020		1 A	Unknown	LIKEIY	× 7	Kitchen			0	0
RPC 14	5/13/2020		1 A	Unknown	Unknown very Likely	Z 2	Kitchen	1	1.4	1	1.4 36
RPC 15	5/13/2020		1 A	UNKNOWII	Very Likely	_	Kitchen	kitchen 44	1	44	44 3.7
RPC 16	5/13/2020	0	A	UNKNOWN	Unknown very Likely	- 1	Kitchen	Kitchen 6.4	6.4	6	6.4 2.9
RPC 17	5/13/2020	0	1 A	CHRICWII	Very Livery		Kitchen	Kitchen 23	23		23 1.8
RPd 1	6/9/2020	0	1 A	UNKNOWN	LIKELY		Kitchen		3.4		3.4 33
RPd 2	6/10/2020	0	1 A	Unknown Likely	LIKEIY		Kitchen		11		11 45
RPd 3	6/10/2020	0	A	Unknow			Kitchen	1	4.4	1	4.4 5.6
RPd 4	6/10/2020	0	1 A	Unknown			Vitchen	1	1.4	1	1.4 3.9
RPd 5	6/10/2020	0	1 A	Unknown			Kitchen	1	0	1	0 2.2
RPd 6	6/10/2020	0	1 A	Unknown	Unknown Likely		Kitchen		17		17 28

WSSN 0600 City of Benton Harbor 2nd Half 2020

Lead and CoppelSisebels Concitor of the notatible representation of the person of the

Lead and Copper Report and Consumer Notice for Community Water புழையுக்கு A -Sவுறைப்புக்கு

6																	
Sampi	e Location	Samp	le Date	Her	(1,2, 3,	Cate	gory	Bu	liaing Plumbing	Se	rvice Line (L,	тар туре (к, в)	Lead ppp	Copper ppb Praw	Lead ppp	copper raw	ppb
					PT)					П	C, G, P)						
1292 Bis	hop Sample Loc	10/2	9/20 Sample	Date	er.1	, , /	Cate	rory	Unk Building Plumbir	P	Lead Service Line (L	KITCHEN	Lead nob	Copper ppb 1.5	and nob	onner nnh	1.2
931 Moi	тое	10/0	7/20	T	er 1 OT	, ,	1	,	Unk		read P)	KITCHEN	4.6	2 PPC: PPC 2	9.	2	1.8
1129 Jer	nings _{Bishop}	10/0	7/ 2 8/20	/20 T	er 1 _{Tier}		Α ,		Unk _{lnk}		read 4	KITCHEN	1.4	1.5	1.9 20	1.2	1.3
1354 Bis	9912 Monroe	10/1	4/20/07	_{7/20} T	er 1 _{Tier}	1	Α /		Unk _{Unk}		Leagld	KITEHEN	4 <u>1</u> 68	2 (9.21.	1.8	3 0
948 Ogd	ባ1 29 Jenning	s 10/2	1/20/07	//20 T	er 1 _{Tier}	1	Α μ	V	Unk _{Unk}		Le <u>a</u> dd	KATTCHEN	£7,9	252	20 7.1	1.3	44
1133 Jer	1135g sBishop	10/2	1/20/14	/20 T	er 1Tier	1 4	\ <i>\</i>	V	Un k Jnk		Letaedald	KAITICHEN	1.25	04.2	1.1 2	5 0	2.7
1248 Br	99458v@g den	11/0	9 /20 /21	./20 T	er 1Tier	1 /	\ <i>P</i>	1	Un k Unk		Letædad	KAITICHEN	6491	52 (
1026 Bis	ቯዕ β3 Jenning	s 11/0	9/ 20 /21	./20 T	er 1Tier	1 /	\ <i>P</i>	1	UnkUnk		Lelaedid	KAITCHEN	2555				2.7
1271 Pa	⁄⁄∂∤& Broadw					1 /	\ <i>P</i>	\	UnkUnk		Letandid	KITCHEN	481.6			9 0	
1259 Bis	дд6 Bishop		4/ 3 1/09			1	<u> </u>		Unk ^{Jnk}		Lelsad	KITCHEN	⁵ 6.3		- P.		- 0
285 Has	12/1 Pavone		$0/\frac{1}{2}0/1^{2}$		er 1 lier	1	\ <i>P</i>		Unk.	Н	Lead Lead	KHEHEN.	8406	8.4	3.9	3 11	1.0l
1086 Su	1259 Bishop serior 285 Hastings ings 1086 Superio	10/2	$9/\frac{10}{20}/12$	720 _T	er 1		\ <u></u>		Unk	Н	Lead Lead	KITCHEN	6.3		5.1	1.0	→ ()[
174 Has	Hings	10/0	9/20 1 7/20/20 7/20/20	720 T	er 1 Tier		\ <u></u>		Unk Unk	H	Lead Lead Lead	KITČI IEN KITCI IEN KITCI IEN	1.6 3,4	7.2	1.3	1.6	1.2
649 Pipe	stone 174 Hastings 649 Pipeston	10/0		// - -0	er 1 Tier		\ 		Unk Unk	Ħ	Lead Lead Lead	NIT CHEN	2 31	1 17.	7 11 20		14
1112 Ag	日本 Pineston	11/1	0/20/0-	1/20	er 1 _{Tier}		\		Unk	Н	Lead	WITCHEN	310	1.1	201.	1.2	1.6
1053 Jer	ក្រុក្ខ្លួន _{Agard}	10/1	4/20/10		er 1 _{Tier}		\ <u>/</u>		Unklink	H	Lead	KITCHEN	4 1	8 2 .8			6.6
1020 Bis	1003 Jenning	s 11/1	0/20/14		er 1 _{Tier}	1	۱ /		Unkunk		Leadd	KINEHEN	4.10	5.814	0 (6.6	5.8
	ย ่ <mark>ของ</mark> bussishop		1/20/10	/20 T	er 1 _{Tier}	1	\ <i>\</i>		UnkUnk		Letaedad	KAITICHEN	2)6	1486	05.	L 5.8	42
142 Cros	\$ 25 1 Columb	us 10/2	0 /20 /21	./20 T	er 1Tier	1 /	\ <i>F</i>	\	Un k Unk		Letædad	KAITICHEN	2.67	361.9	5.18.3	3 42	1
885 Min	4മി Cross St.	11/0	9/ 20 /20)/20 T	er 1Tier	1 /	\ <i>P</i>	V	UnlUnk		Letædaid	КИПТСНЕN	70		8.3) 1	5.5
	<mark>୫୫</mark> ନ୍ନ Mineral	10/0	7/ ⊉ Ð⁄09	/20 T	er 1 ^{Tier}	1 /	\ <i>F</i>		Unk ^{Jnk}		L ela@ d	KITCHEN	28	4.216			ا × ∸ ا
781 Bus	1110 Ogden	10/1	4/ ½0 /07	'/20 _T	er 1 ^{Tier}	1	\ <i>P</i>		Unk ^{Jnk}		Le l agd d	KHEHEN	7 80		291.0	13	0
610 Sup	781 Buss	10/1	4/30/14	/20 _T	er 1 ^{Tier}		, <i>F</i>		Unk ^{Unk}	Ц	Leadd	RHEHEN	100		1.6	3 0	3.1
1124 Co	PTO Suberior	10/1	$4/\frac{10}{2}$		er 1		F		Unk.	П	Lead Lead	KITEHEN	5 ₂ 2 3,8 6,1 6,1	37, 0	33.	3.1	5
1016 La	1174 Collax	10/1	4/20/14	/20 T	er 1		<i>F</i>		Unk Unk	П	Lead Lead Lead	KITEHEN	3.8 6.1	4.9	3.2	5	- 01
1197 Ag	1016 LaVette ard 1197 Agard	10/1	10/12 4/20 10/12 5/20/11	/20 T	er 1		-		Unk Unk	Ħ	Lead Lead	KITCHEN KITCHEN	6.1 24	1.6	5.1	0	⊣ ∩I
999 Pea	1197 Agard 151 999 Pearl St		7/20/15		er 1 _{Tier}		- /		Unk Unk _{Ink}	Ħ	Lead Lead	KITCHEN	2 .9 7		2.9	3 16	1.0
333.00	999 Pearl St	10/0	· / <u>1</u> 0/07	<u>720 '</u>	- Tier	1	. /	V.	Unk	Ц	- J.E.a.d	KITCHEN	9-89	7.3	28 20	3 <u>1</u> 6	كتب



1178 Broadway	10/07/20	Т	ier 1	Α		Unk		Lead	KITCHEN	18	1.6	19		1.9
857 Ogden	10/07/20		ier 1	A		Unk		Lead	KITCHEN	21				0
141 Winan	11/10/20	_	ier 1	Α		Unk		Lead	KITCHEN	0	i	1.3		4.5
768 Broadway	11/10/20			~•.A	<u> </u>	Unk		Lead 👝	A KITCHEN O			0		1.1
812 Lavette	10/21/20	214 A	600	CITY C)T t	senton H	a	rpgr zn		20 240	36	50		2.5
1264 Pavone	10/29/20		ier 1	Α		Unk		Lead	KITCHEN	0	0	0		0
166 Searles	10/07/20	2 H D	ier 1	- A C		Unk		Lead	KITCHEN	12 C12	2.1	A C. 13	مانمه	7 2
819 Vinevaria		או ואַכ	Eport	ang C	ΨΠS	uniel nou	C		ımünitğ W	ater su	ppiy roi _i i§	A -201	piles	2.4
1237 Co														3.7
1115 Superior	11/10/20	T	ier 1	Α		Unk		Lead	KITCHEN	1 ≷t 6	Draw 51	5th ³ D	aw	54
578 Edwards	11/09/20	Т	er 1	A		Unk		Lead	KITCHEN	P	19	6.6		150
341 Bruns@ample Loc	ati ð fil / 2 3/27 fi	ple Date	efier (1,2	., 3, Cate	gory	Building Plumbir	ng	Service (L	тарнуры (Ж. в)	Lead ppb	Copper ppb 1.5	ead ppb 🔇	pper ppb	2
1011 Pearl St	10/21/20	T	er 1 от)	A		Unk		હિ; હ ં, P)	KITCHEN	2.1	6.5	1.8		2.4
1191 Pa 12292 Bishop	11/10/20	/29/20 T	er 1Tier :	L A /	4	Un k Jnk		Letaedald	KATTICHEN	1.80		1.91.6	1.2	2.1
1069 Huß 1 Monroe	11/10/20			L A /	4	Un k Unk		Letaedaid	KAMICHEN	4269				_
1225 Co #429 Jenning	, , , , ,			L A /	4	UnkUnk	Ц	L e[a@ ld	KHTCHEN	147.5				
1289 Bis 4 8 Bishop	10/21/20			L A /	4	Unl⊌nk	Ц	<u>refæ</u> gid	KITEHEN	183.7		1.14.2		0
1291 Superior 88en	12/4/2 d 9		_	- A /	4	Unk ^{Unk}		l esgq	KHEHEN	6.9		7.1 2	44	
1244 Jenning	s 12/4/2d2			<u> </u>	4	Unk ^{Unk}	Н	read '	KHÇH <u>EN</u>	25	4.2 0	<u> </u>	2.7	- 0
185 Parker Ave	^{ay} 12/4/2र्पुर्र्	709/20 T	er 1	 	^	Unk Unk		Lead Lead Lead Lead	KITČIJEN KITCIJEN	4.1 5.5	45 0	44 5	2.7	→ (\)
1161 Unipulation	12/4/2q2	714/20 T	er 1 _{Tier}	- A /	Δ	Unklink		Lead Lead	WITCHEN	8.6	840	3 9 5	11	0
504 Territorial Bishop	12/4/202		er 1 _{Tier}	A	4	Unk _{Unk}		Гезед	KIHEHEN	6.3	4.2 0	5.1	(0
552 Buenas Vistatings	12/4/202) _{10/20} T	er 1 _{Tier} :	. A ,	Δ	Unk _{Unk}		Leadd	KAITEHEN	1.6	7.2 0	1.3 2	1.6	0
1143 Union86 Superio	r 12/4/20 <u>1</u> 20)29/20 T	er 1 _{Tier} :	. A .	Δ	Unk _{Unk}		Lef e cal q	KAITCHEN	75	0 0	11 4	(0
854 LaSalle Stastings	12/3/2020	707/20 T	er 1Tier	L A /	4	Un k Unk		LeLædald	KATTCHEN	3.41	1.1 0	4.4 1	1.2	<u>'</u> 0
232 HastingsPippeston	e 12/4/2012	ј 07/20 т	er 1Tier	L A /	4	Unk⊍nk		Letand	KHTCHEN	310	5.7 0	20 0	14	ł O
201 Gartield ² Agard	12/4/202			L A /	4	Unk		<u>re</u> taged	KITEHEN	0	8.2 0		1.6	
400 John Street	s 12/4/2d2		·	<u> </u>	^	Unk ^{Unk}		read -	KHEHEN.	4.1 ₀		0 1	6.6	- 0
204 Gartied	12/4/202	/10/20 /21/20 _	er 1	 	^	Unk Unk Unk		Lead Lead Lead	KITĆHEN	2.6		0 5.1	5.8 42	⊣ ()
1043 Agard Cross St.	12/4/202	720/20 T	er 1	A /	^	Unk		Lead	WITCHEN -	7	30	8.3	42	0
1037 Pearls Mineral		09/20	er 1 _{Tier}	A /		Unklink	П	Lead	KITCHEN	Ó		0	5.5	, 0
582 Niles 1110 Ogden	12/4/202	07/20	er 1 _{Tier}	A	Δ	Unk _{Jnk}		Lead _d	KIHEHEN	28	16 0	₂₉ 2	1.3	3 0
660 McGyeggaguss	12/4/202) _{14/20} T	er 1 _{Tier}	. A ,	4	Unk _{Unk}		Leadd	KATTEHEN	100	3.9 0	1.6	(0
1167 Broadwayperior				L A /	4	Un k ∪nk		Letaedald	KAITTICHEN	5.20			3.1	1 0
1066 Mohilae Colfax	12/4/2012)14/20 T	er 1Tier	L A /	4	Un k Jnk		Lelandid	KITTCHEN	3.80	4.9 0	3.2 0	Ę	0
855 Lavette				L A /	4	Unk⊍nk		Le la@ d	KHTCHEN	6.10				0
565 Clay 1/s Pagnestion		15/20 _T		Α /	4	Unk ^{Unk}	П	<u>r</u> efegd	KITEHEN	2.9		2.9 2		0
999 Pearl St	10	/07/20	Tier	1 /	4	Unk		Lead	KITCHEN	9.8	7.3	28	16	,



Lead and Copper Tap Sample Exclusion FormThe Michigan Safe Drinking Water Act, 1976 PA 399, as amended, specifies required lead/copper tap sampling methodology (R 325.10710a). Samples not meeting compliance sampling requirements cannot be included in the 90th percentile calculation.

			nuded in the 30° percentile calculation.
WSSN: <u>00600</u>	water Supply N	lame: <u>Benton Harbor</u>	
Sample Invalidate	d:		
Lab ID or	Collection Date:	Sample Site Address:	
Sample Number:			
4672024		Unknown 1 st liter	
4672025		Unknown 5 th liter	
IMPRO <u>P</u> ER SAMP	LE COLLECTION	Percentile Calculation: 325.10710a(2)	
☐ Not first		325.10710a(2)(a)(i) or	⁻ 325.10710a(2)(b)(i)
	iter (LSL only)	325.10710a(2)(b)(i)	
	tic flushing		⁻ 325.10710a(2)(b)(i)(A)
	cleaning/removed	1 / 1 / 1 /	⁻ 325.10710a(2)(b)(i)(A)
<u>—</u>	onless at least 6 ho		r 325.10710a(2)(b)(i)(B)
	en or bath sink tap		r 325.10710a(2)(b)(i)(A)
	er volume		r 325.10710a(2)(b)(i)(B)/(C)
=	-mouth bottle		r 325.10710a(2)(b)(i)(B)/(C)
	fied within 14 days xplain in comments	325.10710a(2)(a)(ii) o)	r 325.10710a(2)(b)(ii)
INVALID SAMPLE		325.10710a(6)(a)	
☐ Lab esta	blished improper ar	nalysis caused errors	325.10710a(6)(a)(i)
⊠ The sam	ple did not meet the	e site selection criteria	325.10710a(6)(a)(ii)
\boxtimes N	ot a properly tiered	site	325.10710a(1)
□ T	reatment designed	to remove inorganics	325.10710a(1)(a)
☐ The sam	ple container was o	lamaged in transit	325.10710a(6)(a)(iii)
Reason	to believe sample s	ubject to tampering	325.10710a(6)(a)(iv)
SITE SAMPLED M	ORE THAN ONCE	325.10604f(c)(i)	
∏ Not high	est result at site. Or	nly highest result used	325.10604f(c)(i)
to calcula	ate 90 th percentile.		
Comments : Samol	es were collected ս	inder a previous operator.	No records exist to determine
		d tiering criteria for this site	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	301x		02 /18 /2021
Lead and Conn	er Rule Analyst/Sp	 pecialist	Date
			2 / 19 / 2021
Lead and Conn	er Unit Supervisor	· · · · · · · · · · · · · · · · · · ·	Date
Lead and Soppi	or other supervisor		
Seste	Meg		2 / 19 / 2021
Community Wat	ter Suppl <mark>∜</mark> Section	ı manager	Date





WSSN 0600

The City of Benton Harbor and F&V Operations and Resource Management are submitting the following report(s) to Michigan Department of Environment, Great Lakes and Energy:

Lead and Copper Report 2nd half 2020

-	
1 1000	
I certify under penalty of law that this do	cument and all attachments were prepared under my
	n a system designed to assure that qualified personnel
	tion submitted. Based on my inquiry of the persons or
	persons directly responsible for gathering such
	to the best of my knowledge and belief, true,
	there are significant penalties for submitting false e and imprisonment for knowing violations."
Benton Harbor Representative! Ell	is Mitchell Date: 1/05/2021
Signature: () () () ()	Date: 103 2021
/	,
F&V Operations Representative: N	1/Δ
Signature: N/A	Date: N/A





9

1. Supply Name:

Benton Harbor

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A - SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

	2. Co	ounty:	Berrien			3. WSS	SN: 0600	
	4. Po	opulation:	9826	5. N	Monitoring Period:	From: 07/01/2020	To: 12/31/2020	_
	6. M	inimum # of	Samples Re	quired:	60	7. # of Samples Tal	ken: 64	
	8. Na	ame of Certi	ied Laborato	огу:	State of Michigan	and Eurofins Eaton A	nalytical	_
	E 001	TEDIA						
		TERIA:						104571
This	form	is for wat LE	er supplies AD SERVIC	collec E LINI	ting <u>some</u> or <u>all</u> ES. All other sup	lead and copper sa plies should use Fo	mples from sites orm B.	VVIII
Yes	No							
\boxtimes		Are some	or all sample	s from s	ites WITH lead sen	vice lines?		
•		If no sites	served by a	lead ser	vice line, STOP and	l use Form B.	For more informa	ation
		Did you pr Tier 1 If insule If no T	ioritize samp sites must be fficient Tier 1 fficient Tier 2 ier 1, 2, or 3	le collect e used to sites av sites, the sites are	ction according to the inless insufficient Tivallable, then Tier 2 then Tier 3 sites must available, sites must be available, sites must be available, sites must be available.	e following: er 1 sites available, sites must be used.	see Instructions "Tier and Sample Category" at the the document.	item 11
		Were the s	same sampli ain (attach a	ng sites additions	used as in the prev il pages if needed);	ious monitoring period Not all previous sites v	? were willing to partic	cipate.
Comr Servi	ce line	e material da	and notificati Ita is based (on data on availa	prior to 11/09/2020 able records provide	was conducted by formed by previous operator	mer operator in cha r in charge.	rge,
·								
Name	:				Signature:			
Title	:				Phone:		Date:	
		nental Assist 0-662-9278	ance Center		Michigan.gov/EGL Page 1 of 5	E	1	EQP59

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A EQP5942a

11. TAP SAMPLING DATA

ŏ Use additional sheets as needed. Sheet

Water Supply Name:

WSSN

(1.2.3.07)				Z COO	Building	Service	Tap	8	1st Liter Sample	힁	िर्य	5th Liter Sample	ole
Attached	Sample Local	<u> </u>		(see below) ²	Plumbing (L,C,CLS, G,P) ³	Line (L*.C.G.P)³	Type (K.B) ⁴	Lead mg/L mg/L mg/L	Copper mg/L mg/L mg/L	Lab Sample Number	Lead mg/L	Copper mg/L ug/L	Lab Sample Number
Codesgory Description Titler Codesgory Description Codesgory Description Titler Codesgory Description Titler Titler Codesgory Description Titler Tit	e Attached												
Scategory Description Ther Totalgory Description Ther Totalgory Description The Totalgory To													
Category Description													
Common C							20						
Cubegory Description The Cubegory Description The Cubegory Description The T													
Cetagory Description Tier Cetagory Tier Cetago													
Category Description Text Tex													
1 1 2 2 2 2 2 2 2 2													
1 Category Description 1 Ther 1 Category 1 Ther 2 Category 1 Ther 2 Category 1 Ther 2 Category 1 Ther 2 Category 2 Categ													111
Cottegory Description Ther 2 Category Description Single Family w/ lead service line Ther 2 Category Description Single Family w/ lead service line Ther Ther There													
2 Category Description Ther 2 Category Description Single Family will read service line L* = Lead													
2 Category Description A. Single Family w/ lead service line B. Single Family w/ lead service line B. Single Family w/ linenor lead plumbing C. Band internor lead plumbing C. Hard in Family service connections C. Hard in Family w/ linenor lead plumbing C. Hard internor lead of the plumbing C. C. Hard intern													
2 Category Description 2 Category Description A Single Family w/ lead service line B Single Family w/ interior lead plumbing B Single Family w/ interior lead plumbing C Robert Category Description B Single Family w/ interior lead plumbing C Robert Category Description Tier 2 Category Description Tier 2 E Multi Family or building w/ Interior lead plumbing C Robert Category Categ													
2 Category Description A Snage Family w/ lead service line B Snage Family w/ lead service line B Snage Family w/ lead service line C Snage Family w/ intend lead plumbing D Multi Family or building w/ interior lead plumbing C C = Copper C C = Coppe								V.					
A Single Family w/ lead service line E Single Family w/ intencr lead plumbing C = Copper C = Copper C = Copper with lead solder C = Copper CLS = Copper with lead solder C = Copper with		Description				scription			Жc	laterial		*Tap Type	
B Single Family w/ intenor lead plumbing Ther 2 E Multi Family or building w/ intenor lead plumbing (C = Copper CLS = Copper with tead solder CLS = Copper w	1	Snale Family w/ lead ser	ryice line	1	十	Ault Family or buildin	og we lead se	vice line	-	= Lead		K = Kitchen	Sink
Muth Family Residence (MFR) w/ a LSL* or lead installed before 1988 Lead interior plumbing, if MFRs comprise at least 20% of total service connections. Use Form A if any samples collected from sites with LSLs to allow reporting of 1# and 5" liter results. Other Other OTHER Single Family w/ copper plumbing with tead solder G = Galvanized P = Plastic Use Form A if any samples collected from sites with LSLs to commonly found throughout the supply. Ider results Ider results	83	Single Family w/ intenor	lead plumbing	Ter 2	=	Aulti Family or buildin	ig w/ intenor	lead plumbing	ن ن ا	= Copper S = Copper with	lead solder	B = Bathroor O = Other (n	n Sink ot an option for
Other OT If no Ter 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply. Page 2 of 5	I	Muto Family Residence (tead intenor plumbing, if least 20% of total service	MFR) w/ a LSL*, or MFRs comprise at connections.	Tier 3		ingle Famiy w/ copp nstalled before 1988	er plumbing	with fead solder		= Galvanized = Plastic		residential si	(es)
.v	Use Form A allow reporting	if any samples collected fro	m sites with LSLs to	Other		f no Tier 1, 2, 3 sites. commonly found throo	use sites re ughout the si	presentative of ppply		Jse Form A if an llected from site rvice lines to rep rr results	y samples s with lead out 1st and 5th	= =	
						Page 2 of 5							Jan 7 202 LE-DWEHD-CWSS

Bolt, Jennifer (EGLE)

From: Robert Jones <ri>jones@fv-operations.com> Sent: Wednesday, February 3, 2021 11:19 AM

To: Bolt, Jennifer (EGLE) **Subject: Lead Copper Report**

Attachments: Benton Harbor LCR Report H2 2020 Revised 02 01 2021.xlsx

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Robert Jones

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

2960 Lucerne Drive SE, Suite 100 | Grand Rapids | MI | 49546 O: 616.588.2900 | C: 810.220.9441 | F: 616.977.1005 www.fv-operations.com



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WSSN 0600 City of Benton Harbor 2nd Half 2020

Lead and Copper Report and Consumer Notice for Community Water Supply Form A -Supplies

							1st	Draw	5th	Draw
Sample Location	Sample Date	-	Category	Building Plumbing	1	Tap Type (K, B)	Lead ppb	Copper ppb	Lead ppb	Copper ppb
		ОТ)			C, G, P)					
1292 Bishop	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	1.8	1.5	1.9	1.2
931 Monroe	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	4.6	2	9.2	1.8
1129 Jennings	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	17	2	20	1.3
1354 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	1.3	0	1.1	0
948 Ogden	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	6.9	52	7.1	44
1133 Jennings	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	25	4.2	25	2.7
1248 Broadway	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	4.1	0	2	0
1026 Bishop	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	5.5	45	4.4	2.7
1271 Pavone	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	8.6	8.4	3.9	11
1259 Bishop	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.3	4.2	5.1	0
285 Hastings	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	1.6	7.2	1.3	1.6
1086 Superior	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	7	0	11	0
174 Hastings	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	3.4	1.1	4.4	1.2
649 Pipestone	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	31	5.7	20	14
1112 Agard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	8.2	1.1	1.6
1053 Jennings	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	4.1	5.8	0	6.6
1020 Bishop	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	14	0	5.8
1251 Columbus	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	2.6	36	5.1	42
142 Cross St.	10/20/20	Tier 1	Α	Unk	Lead	KITCHEN	7	1.9	8.3	1
885 Mineral	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	0	4.2	0	5.5
1110 Ogden	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	28	16	29	13
781 Buss	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	100	3.9	1.6	0
610 Superior	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	5.2	37	3	3.1
1124 Colfax	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	3.8	4.9	3.2	5
1016 LaVette	10/14/20	Tier 1	Α	Unk	Lead	KITCHEN	6.1	1.6	5.1	0
1197 Agard	10/15/20	Tier 1	Α	Unk	Lead	KITCHEN	2.9	0	2.9	0
999 Pearl St	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	9.8	7.3	28	16

1178 Broadway	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	18	1.6	19	1.9
857 Ogden	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	21	0	24	0
141 Winan	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	2.4	1.3	4.5
768 Broadway	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.2	0	1.1
812 Lavette	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	240	36	50	2.5
1264 Pavone	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
166 Searles	10/07/20	Tier 1	Α	Unk	Lead	KITCHEN	12	2.1	13	2
819 Vineyard	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	1.2	4.8	2.4	2.4
1237 Columbus	10/06/20	Tier 1	Α	Unk	Lead	KITCHEN	27	3.4	40	3.7
1115 Superior	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	3.6	51	3.9	54
578 Edwards	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	0	19	6.6	150
341 Brunson	10/29/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.5	0	2
1011 Pearl St	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	2.1	6.5	1.8	2.4
1191 Pavone	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	0	1.2	1.6	2.1
1069 Hurd	11/10/20	Tier 1	Α	Unk	Lead	KITCHEN	2.9	25	3.7	1.5
1225 Colfax	11/09/20	Tier 1	Α	Unk	Lead	KITCHEN	4.5	2.9	3.2	0
1289 Bishop	10/21/20	Tier 1	Α	Unk	Lead	KITCHEN	8.7	1.1	4.2	0
1291 Superior St	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0
1244 Jennings	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
185 Parker Ave	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	5	0
1161 Union St	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	3	0	5	0
504 Territorial Rd	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
552 Buena Vista	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0
1143 Union	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	5	0	4	0
854 LaSalle St	12/3/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
232 Hastings Ave	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
201 Garfield	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	1	0	1	0
400 John Street	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	1	0
204 Garfield	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1043 Agard	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	4	0	2	0
1037 Pearl	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
582 Niles	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	2	0
660 McGuigan	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1167 Broadway	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
1066 Monroe	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
855 Lavette	12/3/2020	Tier 1	Α	Unk	Lead	KITCHEN	0	0	0	0
565 Clay (stagnation	12/4/2020	Tier 1	Α	Unk	Lead	KITCHEN	2	0	2	0

1212 Pearl St	14-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	20	2.9	1.1	1.6
161 Kline	29-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	0	4.7		
538 Columbus	20-Oct-20	Tier 1	Α	Unk	Lead	Kitchen	5.2	3.1	3.6	1.8
Sample #1	08-Jul-20	Unk	Unk	Unk	Unk	Unk	0	11		
Sample #5	08-Jul-20	Unk	Unk	<u>Unk</u>	Unk	Unk			0	2.7





LABORATORY REPORT

Eaton Analytical

LABORATORY REPORT

you have any questions concerning this report, please do not hesitate to call us at 00) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

	State	Certification	State	Certification
	LA PARTADY DEDO	PT 40700	Missouri	880
	LABORATORY REPO	IN00035	Montana	CERT0026
	Arizona	AZ0432	Nebraska	NE-OS-05-04
	Arkansas	IN00035	Nevada	IN00035
	California	2920	New Hampshire*	2124
	Colorado	IN00035	New Jersey*	IN598
	Colorado Radiochemistry	IN00035	New Mexico	IN00035
	Connecticut	PH-0132	New York*	11398
	Delaware	IN035	North Carolina	18700
	Florida*	E87775	North Dakota	R-035
	Georgia	929	Ohio	87775
	Hawaii	IN035	Oklahoma	D9508
	Idaho	IN00035	Oregon (Primary AB)*	4074
	Illinois*	200001	Pennsylvania*	68-00466
	Illinois Microbiology	17767	Puerto Rico	IN00035
	Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
you have any q	uestions lædiama g Ohrenist ny ease do	not hesit @e7 d /s0/1 us at	South Carolina	95005
00) 332-4345 o	(574) Indiana Microbiology	M-76-07	South Dakota	IN00035
	lowa	098	Tennessee	TN02973
	Kansas*	E-10233	Texas*	T104704187-18-12
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	Louisiana*	LA014	Utah*	IN00035
	Maine	IN00035	Vermont	VT-8775
	Maryland	209	Virginia*	460275
	Massachusetts	M-IN035	Washington	C837
	Michigan	9926	West Virginia	9927 C
	Minnesota*	018-999-338	Wisconsin	999766900
	Mississippi	IN035	Wyoming	IN035
	EPA	IN00035		

*NELAP/TNI Recognized Acerelalitation Bodies

Revision date: 03/14/2019

Attn:





110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: Benton Harbor City of LABORATORY REPORT

Michael O'Malley

200 East Wall Street

Benton Harbor, MI 49002

Report: 491312

Priority: Standard Written

Status: Final

PWS ID: Not Supplied

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4672024	Sample #1	200.8	07/08/20 00:00	Client	07/14/20 11:45
4672025	Sample #5	200.8	07/08/20 00:00	Client	07/14/20 11:45

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for you have last questions concerning this report, please do not hesitate to call us at

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

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Page 1 of 7

Authorized Signature

Benton Harbor, City of

Report #: 491312

Client Name:

Title

07/21/2020

Date



Report #: 491312

Sampling Point: Sample #1 PWS ID: Not Supplied

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	11	ug/L		07/20/20 12:45	4672024
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		07/20/20 12:45	4672024

Sampling Point: LABORATORY REPORT Sample #5 PWS ID: Not Supplied

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		07/20/20 12:47	4672025
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		07/20/20 12:47	4672025

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	!

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Report #: 491312

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

LABORATORY REPORT

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery** %

you have any questions concerning this report, please do not hesitate to call us at

00) 332-4345 or (5 Marxis Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

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Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) 99% of procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

BMIT GNUORANRUT ed with less than 48 hours holding MATRIX CODE N/A Effective Date: 2020-05-15 # OF CONTAINERS CHLORINATED 8 time remaining may be subject to addition 06-LO-F0435 Issue 8.0 Effective Da ₩ of YES LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIEN Batch # Order# Page Residual Chlorine (P/A) Preservative Checks 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 pH accep-table? √ TUIL COMMENTS THE RIGHT TORIL TO THE RIGHT TORIL TO THE RIGHT TORIL TO THE RIGHT TO TEST NAME 100% 125% CALL CALL POPULATION SERVED is report may not be reproduced, S We waste water

With a market water Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other on the standard EEAWater Services Terms, which are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. Any other of the standard EEAWater Services Terms are available upon request. SAMPLING SITE Eaton Analytical service not available for all testing RECEIVED BY:(Signature) RECEIVED BY:(Signature) COMPLIANCE AM PM 0:00 0:00 COLLECTION CHAIN OF CUSTODY RECORD 💸 eurofins Shaded area for EEA use only 7/14/2020 14/2020 DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER DATE RELINQUISHED BY:(Signature RELINQUISHED BY:(Signature RELINQUISHED BY:(Signature MATRIX CODES. LAB Number ECLE-DWEHD-CWSS-LCU Dec 3 2020



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING



October 22, 2018

VIA E-MAIL and U.S. MAIL

Mr. Darwin Watson City of Benton Harbor 200 Wall Street

Benton Harbor, Michigan 49022

WSSN: 0600

Supply: Benton Harbor

County: Berrien

Dear Mr. Watson:

SUBJECT: Lead and Copper Monitoring - Action Level (AL) Exceedance

The city of Benton Harbor community water supply's ninetieth percentile exceeded the AL for lead during the most recent round of lead and copper monitoring of drinking water taps from June 1, 2018, through September 30, 2018, as summarized below.

Contaminant	AL	MCLG*	90 th Percentile Value	Number of Samples Above AL	Range of Sample Results	Typical Source of Contaminant
Lead	15 parts per billion (ppb)	0	22	8	0 ppb - 60 ppb	Corrosion of household plumbing systems; Service lines that may contain lead; Erosion of natural deposits
Copper	1.3 parts per million (ppm)	1.3	0.1	0	0 ppm - 0.1 ppm	Corrosion of household plumbing systems; Erosion of natural deposits

^{*}MCLG: Maximum contaminant level goal means the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

An AL exceedance is not a violation, but it triggers other requirements under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). Requirements include water quality parameter (WQP) monitoring, source water monitoring, corrosion control treatment, and public education (PE). Please refer to the "Timetable of Upcoming Requirements" for your specific deadline for each of the following requirements.

Issue a Public Advisory

An amendment to Act 399 on March 29, 2017, requires a public water supply to issue a Public Advisory (PA) within three business days to inform all persons served about the lead AL exceedance. It is the intent of the Department of Environmental Quality (DEQ) to work with you to develop the PA materials to ensure it complies with the requirements set forth in Act 399. Enclosed with this letter is a checklist to document the PA

Mr. Darwin Watson Page 2 October 22, 2018

distribution activities. Please contact the DEQ if you plan to use broadcast media as your delivery method.

Deliver Consumer Notice of Lead and Copper Results

Within 30 days of learning the results, you must provide individual lead and copper tap results to the people who receive water from sites that were sampled, even if lead and copper were not detected. You must also send us certification that you met all delivery requirements along with a sample copy of your consumer notice 90 days after the end of the monitoring period. To download the *Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate* in Microsoft Word or PDF format, visit http://michigan.gov/deq. Click on Water, Drinking Water, Community Water Supply, and Reporting Forms.

Distribute PE

Sixty days after the end of the monitoring period that exceeded the AL, deliver PE materials to all consumers. Repeat each year until the lead AL is no longer exceeded. This material is intended to educate consumers about lead health effects, sources, and steps to minimize exposure. Enclosed is a template you may use to meet the requirement. Note that the PE material must include information about the exceedance in your water supply, information about what you are doing to reduce lead levels, information about lead service lines in your distribution system, and information about the history of lead levels in your water supply.

Also attached is a checklist of PE activity requirements with a certification form to return to us, no later than ten days after the PE is due, along with a sample copy of the PE material.

Conduct WQP Monitoring

Six months after the start of the monitoring period that exceeded the AL, collect two sets of Water Quality Parameter (WQP) samples, at least 24 hours apart, from your entry point to the distribution system, TP001 (Treatment Plant Tap), and from ten locations in the distribution system. Essentially, WQP sampling must be done twice from each location (entry point and distribution system locations) within a six-month period but cannot be at the same site on the same day. The WQP samples shall be analyzed for pH, alkalinity, calcium, conductivity, chloride, sulfate and temperature. Temperature and pH are field tests and should be completed at the time of sample collection.

If you use the DEQ laboratory, order bottles by calling 517-335-8184 or by downloading the form EQP 2301 *Bottle Order Form* from http://michigan.gov/deqlab. Click on Drinking Water. The tests are analyzed from one sample bottle per location. Request the analyses using the following test codes:

Test Code	Cost	Bottle Number	Test Description
CORR	\$51.00	33	Conductivity, Alkalinity, Phosphate, and Calcium
CPH	\$13.00	33	pH Determination
R	\$18.00	32,33	Chloride, Sulfate

Conduct Source Water Monitoring

By November 30, 2018, collect one set of WQP samples from a source water tap that is representative of raw water before treatment. If you need assistance determining the appropriate sampling point, please contact your District Engineer. The samples should be analyzed for all of the parameters above.

Six months after the end of the monitoring period that exceeded the AL, collect one sample for lead and copper at your entry point to the distribution system. Repeat every third year until both lead and copper ALs are met during the entire three-year period.

Correct the Problem

Minimize lead and copper in drinking water by reducing corrosion of water pipes and household plumbing that contain lead and copper. To accomplish this, you must propose a corrosion control treatment plan or propose to perform a corrosion control study by six months after the end of the monitoring period that exceeded the AL. If treatment is found to be necessary, it must be installed and samples collected to ensure the lead and copper ALs are consistently met. Contact us for guidance on corrosion control options.

Lead and Copper Monitoring

To show the ALs can be met, collect lead and copper samples from 60 sites between January 1 and June 30, 2019, and again between July 1 and December 31, 2019.

You may discontinue the corrosion control study and installation of corrosion control treatment if the action levels are met during future rounds of monitoring.

When selecting new sites, choose the highest Tier criteria available within the distribution system, giving Tier 1 sites first priority. Please see the enclosed tiering criteria to help inform your site selection process. Within 30 days of learning of results, provide individual lead tap results to people who receive water from sites that were sampled. If you have Tier 1, or Tier 2 sites, i.e., sites with a lead service line, compliance sampling will require that you collect a 1st liter and 5th liter sample from each sampling location. Specific instructions regarding the 1st and 5th liter sample collection procedures are currently being developed and will be provided before January 1, 2019. Within 30 days of learning of results from the 1st and 5th liter samples, provide individual lead tap results to people who receive water from sites that were sampled. Even if lead

Mr. Darwin Watson Page 4 October 22, 2018

was not detected, all monitoring, reporting, consumer notification, and DEQ certification requirements remain in effect.

Consumer Confidence Report (CCR)

Include this AL exceedance in your CCR, which is due to our office, your customers, and the local health department by July 1, 2019. You may use the table format from the first page of this letter.

Also, because the lead AL was exceeded, include the following health effects language: Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

What Happens Next?

If you can show that both lead and copper ALs are met in two consecutive six-month periods, then many of the requirements outlined in this letter will no longer apply.

However, in the meantime, you must propose a corrosion control treatment plan or propose to perform a corrosion control study. If treatment is found to be necessary, it must be installed. We will work with you to complete these corrosion control steps to optimize your corrosion control treatment.

Timetable of Upcoming Requirements

Complete By	Requirement	Comments
Within three business days	Distribute a Public Advisory	Distribute a Public Advisory to inform all persons served by the water supply of the lead AL exceedance. Distribution of the notice must be in a form and manner designed to fit the specific situation and must be reasonably calculated to reach all persons served by the public water supply.
Right away	Deliver Consumer Notice of Lead and Copper Results to persons served at each site tested within 30 days of knowing the result.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Microsoft Word or PDF format from http://michigan.gov/deqleadcopper.
November 29, 2018	Perform PE activities including delivering PE materials to all consumers.	PE required activities are listed in enclosed template and checklist. Repeat every year until the lead AL is met in the most recent round of sampling.
November 30, 2018	Collect WQP raw water samples.	Collect one set of WQP samples that are representative of raw water before treatment.
November 30, 2018	Collect WQP samples.	Collect two sets of WQP samples from your entry point to the distribution system. Collect two sets of WQP samples at least 24 hours apart from ten locations in the distribution system. Repeat each lead and copper monitoring period until both ALs are met.

Complete By	Requirement	Comments
December 9, 2018	Send us certification of PE compliance along with a sample copy of the materials delivered.	Sample certification enclosed. Required within ten days of PE distribution.
December 29, 2018	For the Jun-Sep 2018 monitoring, send us certification of consumer notice of lead and copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Microsoft Word or PDF format from http://michigan.gov/deqleadcopper.
Between January 1 and June 30, 2019	Collect 60 samples from the distribution system and have them analyzed for lead and copper.	Report the results to the DEQ and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due July 10, 2019.
Between January 1 and June 30, 2019	Collect WQP samples.	Collect two sets of WQP samples from your entry point to the distribution system. Collect two sets of WQP samples at least 24 hours apart from ten locations in the distribution system. Repeat each lead and copper monitoring period until both ALs are met.
March 31, 2019	Collect one lead and copper sample from your entry point to the distribution system.	Repeat every third year until both ALs are met for the whole three-year period.
March 31, 2019	Submit a proposal for optimal corrosion control treatment or a corrosion control study.	Contact us for guidance on corrosion control options. Corrosion control study and treatment installation may cease if both ALs are met during two consecutive sixmonth monitoring periods.
July 1, 2019	Report the 2018 AL exceedance in the Consumer Confidence Report.	Specific lead health effects language must be included.
Between July 1 and December 31, 2019	Collect 60 samples from the distribution system and have them analyzed for lead and copper.	Report the results to the DEQ and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate. Report due January 10, 2020.
Between July 1 and December 31, 2019	Collect WQP samples.	Collect two sets of WQP samples from your entry point to the distribution system. Collect two sets of WQP samples at least 24 hours apart from ten locations in the distribution system. Repeat each lead and copper monitoring period until both ALs are met.
September 28, 2019	For the Jan-June 2019 monitoring, send us certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from http://michigan.gov/deqleadcopper.
March 31, 2020	For the July-Dec 2019 monitoring, send us certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from http://michigan.gov/deqleadcopper.
March 31, 2022	Collect one lead and copper sample from your entry point to the distribution system.	Repeat every third year until both ALs are met for the whole three-year period.

Mr. Darwin Watson Page 6 October 22, 2018

We recognize that the Lead and Copper Rule is complex and may be confusing. We will continue to offer assistance in implementing these regulations. If you have any questions, please contact us at boltj@michigan.gov; onanb@michigan.gov; or at the phone numbers provided below.

Sincerely,

Jeni Bolt

Environmental Quality Specialist

Technical Support Unit

Drinking Water and Municipal

Assistance Division

517-331-5161

Brandon Onan

Corrosion Control Engineer

Engineering Unit

Drinking Water and Municipal

Assistance Division

616-307-6736

Enclosures (Public Advisory Checklist, Public Education Material Template and Sample Certificate, WQP report form, Tier Criteria)

cc/enc: Mr. Mike O'Malley, City of Benton Harbor

Mr. Ernie Sarkipato, Surface Water Specialist, DEQ

Mr. Jeremy Klein, District Analyst, DEQ





MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY DRINKING WATER AND MUNICIPAL ASSISTANCE DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE OF LEAD AND COPPER RESULTS CERTIFICATE FOR COMMUNITY WATER SUPPLY

Issued under authority of 1976 PA 399, MCL 325.1001 et seq., and Administrative Rules, as amended. Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions available on pages 5 and 6. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office.

	1.	Supply	/ Name:	City of Be	enton Ha	arbor MI.		zuaniy	(DEQ) district office.
	2	Count	y:	Berrien			3. W:	-IASS	0600
	4.	Popula	ation:	8800	5. N	fonitoring Period:	From: 6/1/2018		9/30/2018
	6.	Minim	ım # of S	Samples Re		30	7. # of Samples T		30
	8.	Name	of Certific	ed Laborato	ory:	Eurofins Eaton A	nalytical, 210 Hill St, S		
9. SAMP	LE CF	RITERI	Δ.				7 , , , , , , ,		perio IIV.
Yes	No				· · · · · · · · · · · · · · · · · · ·				
			Are all	samples fro	m Tion	1 014-0 1/2			
			Did you	nrioritize e	ample	1 sites? Yes to our collection according	knowledge		
	The second secon		If irIf irIf n	r T sites mu isufficient T isufficient T o Tier 1, 2,	ist be us ier 1 sit ier 2 site or 3 site	sed unless insuffici- es available, then T es, then Tier 3 sites es are available, sites	ent Tier 1 sites availal	ed.	For more information see Instructions item 11 "Tier and
			If Tier 1 lead ser If no, ex	or 2 sites uvice lines?	ised, we	ere at least 50% of	samples from sites wi led): To the best of ou even if City Service L	th	Sample Category" on pages 5-6.
	\boxtimes			Andria (dital	auun	ites used as in the ional pages if need efused to participa	previous monitoring p ed): Many of the hom te.	eriod? es in th	e original sampling
Many	forme	r partic	ipants ch	e were 26 s neir service lose not to i to make up	neln ue	months by lact to a	mpling period. 2 of the ith copper, leaving 24 ing a sample for us to	ose sit availa pick u	es were removed ble from 2015. p). 6 additional
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. SIGNAT	Mich	ael	Ale	9 Mulle	4	Signature:	D3M_		MEEG CACIAC-CRISS-II
Title:	Ben	ton	Herb	Doi Wr	ter S	ptphone: (260	363-05750		0/1/8
2 Environm phone: 1-8	ental A 00-662	ssistance -9278	e Center			1			/ www.michigan.gov/deq
						Page 1 of 6			

EQP5942 (Rev. 4/2018)

野 BH5 **BH6** BH30 **BH28** BH25 BH32 BHP2 BHM1 BH14 BH12 **BH29 BH33** BH8 внз BH11 **BH17** BH20 BH24 ВНР3 BH21 BH15 BH10

BH2

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name: City of Benton Harbor

WSSN:

0600

DEQ Environmental Assistar Telephone: 1-800-662-9278

Sample Location	Sample Date	Tier (1.2.3.0)1	Category	Service Line	Building	Tap	Lead	Copper
	9/18/18			(L,C,G,P)"	(L,C,G,P) ³	(K,B) ⁴	⊠ ug/L	
A COLOR DE LA COLO	9/18/18	-			NA	0	0	
	9/18/18	`A			NA	В	0	
	01/01/0			*	NA	8	0	2.3
rikanishi di mata mata mata mata mata mata mata mat	9/10/18	TRANSPORT OF THE PROPERTY OF T		L *	NA	8	0	16
	9/24/18	POTENTIAL PROPERTY AND ADDRESS	T	*	NA	ъ	0	60
AND	9/18/18	>	I	-	NA	ת	3	. ا د
	9/18/18			***************************************		' 0		7.7
Унивания вод на фактивника обоснования в места на применя на применя на применя на применя на применя на приме	9/18/18				NA	В	2.4	72
MANDEN MANDER (AND AND AND AND AND AND AND AND AND AND	9/18/18	<u> </u>		*	NA NA	8	2.5	4.1
er innendersten er en	0/18/18		· -	- *	NA	æ	2.7	9.3
	9/18/18	A	1		NA	В	4.1	4.4
миностранев анд ден от иниципента ден от вестем водене ден адамента, том при двей делу и приментивности.	0/18/18	*		*	NA NA	В	4.4	4.2
ARTIN ANNI PROPERTY AND ARTIN A	0/10/10			*	NA	B	4.4	18
encentri estatoro della se estatoro della constante della constante della constante della constante della const	9/10/18	7	<u> </u>	*	NA	B	4.7	14
eren menen voorsteiningemen urden enstelle state de state	9/10/10	***************************************	I		NA	Ø	4,9	2.5
na ma andre de minimo de començación de començación de començación de començación de començación de començación	81/81/8		<u> </u>	۲ *	X A	В	5.5	4.1
Principle and the principle of the company of the c	9/24/18		I	*	NA	œ	5.8	נג
	9/23/18		-	*	AN	8	10	1 0
	9/19/18	→	T	*	NA		1 0	3 3
	9/19/18	-		*		ū	77	62
	9/18/18	-			NA NA	8	13	47
e de l'annue	0/40/40	-	-	*	NA	B	14	7
AMBRITAN AND AND AND AND AND AND AND AND AND A	9/18/18	1		*	X	8	14	2
	9/18/18		I	*	NA -	7	à .	2 1
	9/18/18	-	Pol.	*	NA :	D C	17	4 4
ed version de su August au company de product de su de s	9/19/18		I	C/G	NA	ו על	à s	ī 9
Assistance Center	900			Andrew Control of the		[13	0.4

Notes: BH

There were not enough data lines. I had to add enough for 30 samples. And nowhere was a question regarding 90th percentile: The 90th Sample for Lead is #27; at 48 ppt. at Site BHD1

L* means presumed lead service line, but unknown. A great number of the known and unknown of Benton Harbor's water

Tapped with Brass; Lead to Brass Curb Stop and Galvanized beyond.

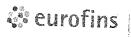
Or for newer construction: Tapped with brass; Copper to Brass Curb Stop and unknown beyond and into house

NA means that we did not enter the household; and that material records in the homes were not accessed; or available.

C/G means the one site we know to have a new lead service lead replaced with copper and connected to a galvanized pipe

You may notice that the sites and lab numbers vary as the entire data pool above is sorted on Lead (lowest to highest). And finally, the lab numbers vary in 2 separate sequences, since there were 2 deliveries to the lab.

0



Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Benjay Herbor MI0600 Leed & copper Results Post 1 to Enforces to IN South Bend IN delivered 9/19/18/

Laboratory Report

Client: City of Benton Harbor

Attn: Michael O'Malley

> 200 East Wall Street Benton Harbor, MI 49002

Report:

430599

Priority:

Standard Written

Status:

Final

PWS ID:

MI0600

EEA I		Sample Information			
# D#	Client ID	Method	Collected Date / Time	Collected	Received
4064964	BH 32	200.8		By:	Date / Tim
4064965	BH 1	200.8	09/19/18 13:15	Client	09/21/18 08:4
4064966	BH 31	Note that the second of the se	09/19/18 07:30	Client	09/21/18 08:4
4064967	CLE TRANSPORTER PARTIES CONTROL OF THE PARTIES OF T	200.8	09/18/18 06:25	Client	09/21/18 08:4
4064968	BH 12	200.8	09/18/18 07:05	Client	09/21/18 08:4
4064969	BH 15	200.8	09/19/18 04:09	Client	09/21/18 08:4
4064970		200.8	09/18/18 05:00	Client	09/21/18 08:4
4064971	BH 8	200.8	09/18/18 07:30	Client	09/21/18 08:4:
4064972	BH 30	200.8	09/18/18 10:24	Client	09/21/18 08:45
4064973	BH 14	200.8	09/19/18 06:05	Client	AND TWO WELLSON CONTROL OF THE SUPPLY
4064974	BH 11	200.8	09/18/18 07:56	Client	09/21/18 08:45
4064975	BH 6	200.8	09/18/18 05:00	Client	09/21/18 08:45
to the first areas of the state of the second of the secon	BH 3	200.8	09/18/18 08:00	TRANSPORT SECTION OF THE LOSS OF THE	09/21/18 08:45
4064976	BH 28	200.8	09/18/18 06:47	Client	09/21/18 08:45
4064977	BH 20	200.8	09/18/18 06:42	Client	09/21/18 08:45
4064978	BH 24	200.8	ing and interior consequences are necessarily one	Client	09/21/18 08:45
4064979	BH 5	200.8 200.8	09/18/18 07:00	Client	09/21/18 08:45
1064980	BH 2	The control of the co	09/18/18 08:00	Client	09/21/18 08:45
1064981	BH 33	200.8	09/18/18 05:30	Client	09/21/18 08:45
064982	BH 16	200.8	09/19/18 05:15	Client	09/21/18 08:45
A CONTRACTOR OF THE CONTRACTOR	Control of the Contro	200.8	09/17/18 04:00	Client	09/21/18 08:45

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Note: I did not osk Remother Approver,

BH did Not ose Page 1 of 7

The MOZQ Leb, The Low sing, would not have been done in time!

Page 3 of 1

Report #: 430599

Pol + 12

Authorized Signature

City of Benton Harbor

Client Name: Report #:

430599

Title

10/04/2018

Date

901 Report #: 430599

Sampling Point: BH 32

PWS ID: MI0600

Lead and Copper									
Analyte ID # 7440-50-8	Analyte Copper	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7439-92-1	voinime como consumeros consumeros consumes. Lead	200.8	1300 l 15 l	1.0 1.0	62 11	ug/L ug/L		09/29/18 18:11 09/29/18 18:11	4064964 4064964

Sampling Point: BH 1

PWS ID: MI0600

			Le	ad and	Conner				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7440-50-8 Copp 7439-92-1 Leac	The sales were a	200.8 200.8		1.0	6.4	ug/L	Date	09/29/18 18:13	ID# 4064965
Control of the Contro	Marine San Carlotte Carlotte and Carlotte Carlotte and Carlotte and Carlotte	200.8	15!	1.0	19	ug/L		09/29/18 18:13	4064965

Sampling Point: BH 31

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	FEA.
7440-50-8 Cop 7439-92-1 Lead	To a transfer to the control of the	200.8 200.8	1300	1.0	2.1	ug/L	Date	09/29/18 18:16	ID# 4064966
Carl Carl	ada 1989 - Augusta San San Garaga and Ada ya Cara Garaga and Garaga and Ada and Ada and Ada and Ada and Ada an	an and a summer product of the second	3 15!	1.0	4.9	ug/L		09/29/18 18:16	Commence of the second

Sampling Point: BH 21

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	I EEA
7440-50-8 Cop 7439-92-1 Lead	Der Sanstras internet sind communications sand in L	200.8	1300 !	1.0	16	ug/L	Date	09/29/18 18:18	ID#
and the second of the second o	e de desembre de la companya de la constanta d	200.8	15!	1.0	< 1.0	ug/L	TO COMMUNICATION OF THE PROPERTY OF THE PROPER	09/29/18 18:18	4064967 4064967

Sampling Point: BH 12

	Analyte	Method	77	7	Copper				
1D# 440-50-8 Conne			Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
440-50-8 Coppe 439-92-1 Lead	<mark>.</mark> Supplet tipe i spektica reproventa primo retirono, se provi	200.8	1300 !	1.0	2.5	ug/L	Uate J	09/29/18 18:20	4064968

Pod 1,4

Report #: 430599

Sampling Point: BH 15

PWS ID: MI0600

A1-/-			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8 7439-92-1	Copper Lead	200.8 200.8	1300 ! 15 !	1.0 1.0	2.3 < 1.0	ug/L ug/L	innakuutti, sinap tanta seguveen	09/29/18 18:23 09/29/18 18:23	ID # 4064969 4064969

Sampling Point: BH 8

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
and the commence of the	Copper Lead	200.8 200.8	1300 ! 15 !	1.0 1.0	4.2	ug/L	Date	09/29/18 18:25	ID# 4064970
	The second secon	Some of the second second second	tan manipula 2. A	1.0	4.4	Ug/L		09/29/18 18:25	4064970

Sampling Point: BH 30

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRLT	Result	Units	Preparation	Analyzed	EEA
7440-50-8 Co 7439-92-1 Le	The state of the s	200.8	1300 !	1.0	2.0	ug/L	Date	09/29/18 18:38	ID# 4064971
a management of the contract o	Contract to the second	200.8	15	1.0	14	ug/L	The state of the s	09/29/18 18:38	4064971

Sampling Point: BH 14

PWS ID: MI0600

	Lead and Copper										
Analyte ID#	ID#	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA		
7440-50-8 Cop 7439-92-1 Lea	Agenty of the programment of the		to the state of th	1.0	4.1	ug/L	Date	09/29/18 18:45	ID# 4064972		
and the contract of the contra	Company and the second	200.8	15!	1.0	5.5	ug/L	Processing and	09/29/18 18:45	4064972		

Sampling Point: BH 11

	Lead and Copper									
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA	
7440-50-8	Copper	200.8	1300 !	1.0	9.3	not	Date		ID#	
7439-92-1	Lead	200.8	15 !	1.0	2.7	ug/L ug/L		09/29/18 18:47 09/29/18 18:47	4064973 4064973	

2011,5

Report #: 430599

Sampling Point: BH 6

PWS ID: MI0600

Analyte	Analysis	T	The state of the s	ad and	Copper	100			
ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
เพ ล งและเกิดและเหมรายเราะหญ่ง	Copper Advantage of the Copper Coppe	200.8 200.8	1300 I 15 I	1.0 1.0	8.4 16	ng/r		09/29/18 18:50 09/29/18 18:50	4064974 4064974

Sampling Point: BH 3

PWS ID: MI0600

			Le	ad and	Copper				
Analyte Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7440-50-8 Co 7439-92-1 Le	pper ad	200.8 200.8	1300 ! 15 !	1.0 1.0	44	ug/L	Date	09/29/18 18:52	ID# 4064975
The second secon	The second secon		·	1.0	4.1	ug/L	<u> </u>	09/29/18 18:52	4064975

Sampling Point: BH 28

PWS ID: MI0600

Analida F	-	7	Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8 Co 7439-92-1 Le		200.8 200.8	1300 I 15 I	1.0 1.0	7.0 14	ug/L ug/L	era comus avenar in manna (2)	09/29/18 18:55 09/29/18 18:55	4064976

Sampling Point: BH 20

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8 Cop 7439-92-1 Lea	ANTALIS DEVELOPED AND A TRANSPORT OF THE	200.8	1300 !	1.0	72	ug/L	J Date	09/29/18 18:57	ID# 4064977
and the comment of the second	Marco (C. 1904) and one of the months of the property of the Marco (C. 1904).	200.8	15!	1.0	2.4	ug/L		09/29/18 18:57	4064977

Sampling Point: BH 24

Analyte			Le	ad and					
ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8 7439-92-1	Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Coppe	200.8 200.8	1300 I 15 I	1.0 1.0	22 2.0	ug/L ug/L	en come sommer en since	09/29/18 19:00 09/29/18 19:00	4064978

001,6

Report #: 430599

Sampling Point: BH 5

PWS ID: MI0600

			Le	ad and	Copper				7. 3. S.
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7440-50-8 Co 7439-92-1 Les		200.8	1300 [1.0	14	ug/L	Date	09/29/18 19:02	ID# 4064979
The second secon	e tradition de la company	200.8	15!	1.0	17	ug/L	Colored Coloredor Coloredor y	09/29/18 19:02	4064979

Sampling Point: BH 2

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8 (7439-92-1 L	Copper Control of the control of th	200.8 200.8	1300 ! 15 !	1.0 1.0	2.3 < 1.0	ug/L ug/L		09/29/18 19:05 09/29/18 19:05	1D # 4064980 4064980

Sampling Point: BH 33

PWS ID: MI0600

Analyte	Analyte	Method			Copper				
ID# 7440-50-8 Con	Copper	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
	Charles participated by the control of the control	200.8 200.8	1300 I 15 !	1.0 1.0	18 4.4	ug/L ug/L,		09/29/18 19:12 09/29/18 19:12	406498

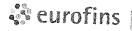
Sampling Point: BH 16

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
Separate properties alternative between the properties	pper	200.8	1300 !	1.0	86	U=4	Date		ID#
7439-92-1 Le	A PERSON A PERSONAL PROPERTY OF A STORE OF A PERSON AS	200.8	15!	1.0	21	ug/L ug/L		09/29/18 19:19 09/29/18 19:19	4064982 4064982

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices

A through the body of a margin through a contrader and a distribution of the contrader and a second and the contrader an			mar occi inol (aveangin nen m	i ali samble motric	00
Reg Limit Type:	يراري والمرابع معيني ويهمون والمراجع والمراجع والمراجع والمراجع	Acres Company			. our countries with the	CO.
reg cimit type:	MACE	and the state of t	are a real reason of the control are a proper	security and the contract of the particular security of the contract of the co		
Symbol:	1816-17	2.	SMC		and the second section of the second section of the second section of	A to the same of
C	Protest Commence Commences, and it is the protessing of the		CIAICE		AI .	2
· Symbol:	*	The state of the s	Committee Commit	the second over the commence of the	7 500	
CONT. THE PROPERTY OF THE PROP			Λ.	At the second se	And April 100 pp. Physical Professor - West previous and Artistics	same of
featurementary mental anti-continuous and a feature of a mental and a sequence of a mental and a mental and a	COMMUNICATION OF STREET AND ADDRESS AND AD				i	



Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

3H Water Pool & Peliver to leb

Laboratory Report

Client:

City of Benton Harbor

Attn:

Michael O'Malley 200 East Wall Street

Benton Harbor, Mi 49002

Report: Priority:

430776

Standard Written

Status:

Final

PWS ID:

MI0600

EEA ID#	Client ID	Method	Collected	Collected	Received
4067552			Date / Time	Ву:	Date / Time
4067553	BH29	200.8	09/18/18 03:15	Client	09/25/18 14:2
4067554	BH17	200.8	09/18/18 07:00	Client	09/25/18 14:20
4067555	BH10	200.8	09/18/18 07:00	Client	09/25/18 14:20
4067556	BH19	200.8	09/18/18 07:15	Client	09/25/18 14:20
4067557	BH25	200.8	09/19/18 07:15	Client	09/25/18 14:20
4067558	BH23	200.8	09/18/18 16:20	Client	09/25/18 14:20
4067559	BHM1	200.8	09/24/18 04:30	Client	09/25/18 14:20
4067560	BHD1	200.8	09/24/18 15:00	Client	09/25/18 14:20
4067561	BHP1	200.8	09/24/18 08:30	Client	09/25/18 14:20
4067562	BHP2	200.8	09/23/18 06:00	Client	09/25/18 14:20
	ВНР3	200.8	09/24/18 07:00	Client	09/25/18 14:20

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Notice 2 I did not ask for written Approved

10/04/2018

Date

Authorized Signature

City of Benton Harbor

Report #:

Client Name:

430776

 $\rho_{oo}(\nu)^{1}_{Report #: 430776}$

Sampling Point: BH29

PWS ID: MI0600

Analyte	Analyte			ad and	Copper				
ID#		Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
		200.8 200.8	1300 ! 15 !	1.0 1.0	14 4.7	ug/L ug/L		10/01/18 21:49 10/01/18 21:49	ID # 4067552

Sampling Point: BH17

PWS ID: MI0600

Analyte			Le	ad and	Copper				
ID#	Analyte Copper	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
TO CAMPTON A PROPERTY.		200.8 200.8	1300 l 15 l	1.0 1.0	4.1 2.5	ug/L ug/L	antig ver en il year, e. ani wat e. ani	10/01/18 21:58 10/01/18 21:58	4067553

Sampling Point: BH10

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7440-50-8 7439-92-1	Copper Lead	200.8	1300 !	1.0	61	ug/L	Date	10/01/18 22:01	ID# 4067554
	LIGAU The market was the gray representation of the market of the surrounding the same statements and the same statements are surrounded to the s	200.8	15!	1.0	< 1.0	u g/ L	A the second control of the second control o	10/01/18 22:01	4067554

Sampling Point: BH19

PWS ID: MI0600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7400 00 00 00		200.8	1300 !	1.0	1.5	ug/L	Date	10/04/40 00	ID#
7439-92-1 ∯Le	ad	200.8	15!	1.0	60	ug/L	A CONTRACTOR AND A CONT	10/01/18 22:04 10/01/18 22:04	4067555 4067555

Sampling Point: BH25

			Le	ad and	Copper				A (1911)
Analyte ID#	Analyte.	Method	Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7400.00	opper	\$	1300 !	1.0	47	ug/L	Date —	10/01/18 22:07	ID# 4067556
to a management of a supple of the supple of	and the state of t	200,8	15!	1.0	13	ng/F	The state of the second	and comments	4067556

Pol 212

Report #: 430776

Sampling Point: BH23

PWS ID: MI0600

			Le	ad and	Соррег				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
		200.8 200.8	1300 [15 [1.0 1.0	11 40	ug/L ug/L	Late	10/01/18 22:10	ID # 4067557 4067557

Sampling Point: BHM1

PWS ID: MI0600

Analyte	Analyte	Method	Pos	BAPL X					X (1)
ID#	-		Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8 Cop 7439-92-1 Leac		200.8	1300 !	1.0	3.3	ug/L	= <u></u>	10/01/18 22:13	ID #

Sampling Point: BHD1

PWS ID: MI0600

Analyte	Analyte	Method	-	-	Copper		T		
ID#	-		Reg Limit	MRL†	Result	Units	Preparation	Analyzed	EEA
7440-50-8 Cop	per	200.8	1300	4.0			Date		ID#
439-92-1 Leac		200.8	15!	1.0	48	ug/L	****	10/01/18 22:16	406755

Sampling Point: BHP1

PWS ID: MI0600

Analyte	Analyte		1	ad and	Copper				
ID#	Copper	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7439-92-1	Lead	200.8 200.8	1300 I 15 I	1.0 1.0	6.2 22	ug/L ug/L	CHARLES AND AND THE SECOND STREET, SANS	10/01/18 22:19 10/01/18 22:19	4067560

Sampling Point: BHP2

Analyte	Analyte	Wethod	7	The same of the sa	Copper				
ID#		Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
	and the second section of the second	200.8	1300 !	1.0	15	ug/L		10/01/18 22:22	ID# 406756
439-92-1 Lead	The state of the s	200.8	15!	1.0	10	ug/L	Tetra estranean est anna mas	10/01/18 22:22 10/01/18 22:22	41

Report #: 430776

Sampling Point: BHP3

Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8 Coppe 7439-92-1 Lead	F	200.8 200.8	1300 !	1.0	6.0	ug/L	L Date	10/01/18 22:30	ID# 406756

	MCL		
Reg Limit Type:			
	MCL		
Symbol:		SMCL	
a commence of the second secon			

Consumer Notice of Lead and Copper Results in Drinking Water

Water Supply Name:	Benton Herbor	¥	
County:	Bessiew	WSSN:	0600
Sample Location:	Various (30) homes	Date Sampled:	Sept 2018

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The	Lead (ppb)	15 22 p.b	0	0+0 60 pg
level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. ppb: parts per billion or micrograms per liter ND: not detected	Copper (ppb)	1300 61 pg b	1300	1.5 1086

<u>Lead</u> can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

<u>Copper</u> is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

To reduce exposure to lead and copper in drinking water:

- Run the water until it becomes cold, approximately 30 seconds to 2 minutes.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap; lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
- Look for alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- Faucets, fittings, and valves purchased before 2014 may contain up to 8 percent lead. Faucets, fittings, and valves
 purchased after 2014 may contain up to 0.25 percent lead, including those advertised or labeled as "lead-free". These
 items may be contributing to the lead found in your drinking water.

Although the primary sources of lead exposure for most children are from deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 20 percent or more of human exposure to lead may come from drinking water.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

For more information on copper, visit the U.S. CDC's website at www.atsdr.cdc.gov/index.html, or contact your health provider.

For more information regarding your water su	pply, contact us at: www.bh	city us.
Certification: I certify that this public water supply has protected, either by mail or by another method app		
WSSN / C	Date Sample Results Received 3- 1-10-1 Hasbor Wele Sp	Date Sent to Consumer
Signature Signature	Title	Date (

DEQ Environmental Assistance Center

Telephone: 1-800-662-9278

Page 4 of 6

www.michigan.gov/deq EQP 5942 (4/2018)



STATE OF MICHIGAN

DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING



July 24, 2019

VIA E-MAIL AND U.S. MAIL

Mr. Darwin Watson City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022 WSSN: 00600 County: Berrien

Supply: Benton Harbor

Dear Mr. Watson:

SUBJECT: Lead and Copper Monitoring - Action Level (AL) Exceedance

During the most recent round of lead and copper monitoring of drinking water taps, from January 1, 2019, through June 30, 2019, Benton Harbor community water supply's ninetieth percentile value exceeded the AL for lead as summarized below.

Contaminant	AL	MCLG*	90 th Percentile Value	Number of Sites Above AL	Range of Sample Results	Typical Source of Contaminant
Lead	15 parts per billion (ppb)	0	27 ppb	12	0 ppb – 59 ppb	Corrosion of household plumbing systems; Service lines that may contain lead; Erosion of natural deposits
Copper	1.3 parts per million (ppm)	1.3	0 ppm	0	0 ppm – 0.1 ppm	Corrosion of household plumbing systems; Erosion of natural deposits

*MCLG: Maximum contaminant level goal means the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

An AL exceedance is not a violation, but it triggers other requirements under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). Requirements include water quality parameter (WQP) monitoring, source water monitoring, corrosion control treatment, and public education (PE). Please refer to the "Timetable of Upcoming Requirements" for your specific deadline for each of the following requirements.

Issue a Public Advisory (PA)

An amendment to Act 399 on March 29, 2017, requires a public water supply to issue a PA within three business days from the date of this letter to inform all persons served by the water system about the lead AL exceedance. It is the intent of the Department of Environment, Great Lakes, and Energy (EGLE) to work with you to develop the PE materials to distribute to your customers to fulfill both the PA and PE requirements simultaneously. A template has already been provided to you. If you plan to use broadcast media as your delivery method, please contact EGLE.

Timetable of Upcoming Requirements

Complete By	Requirement	Comments
Within three business days	Distribute a PA.	Distribute a PA to inform all persons served by the water supply of the lead AL exceedance. Distribution of the notice must be in a form and manner designed to fit the specific situation and must be reasonably calculated to reach all persons served by the public water supply.
Right away	Deliver Consumer Notice of Lead and Copper Results to persons served at each site tested within 30 days of knowing the result.	Download the Lead and Copper Report and Consumer Notice for Community Water Supply in Microsoft Word or PDF format from Michigan.gov/LCR.
Every two weeks (Starting July 1st)	Collect WQP samples. (Entry Point)	Collect one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap).
August 29, 2019	Perform PE activities including delivering PE materials to all consumers.	PE required activities are listed in enclosed template and checklist. Repeat every year until the lead AL is met in the most recent round of sampling.
September 8, 2019	Send us certification of PE compliance along with a sample copy of the materials delivered.	Sample certification enclosed. Required within ten days of PE distribution.
Between July 1 and December 31, 2019	Collect 60 samples from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice for Community Water Supply (download form at Michigan.gov/LCR). Report due January 10, 2020.
Between July 1 and December 31, 2019	Collect WQP samples. (Distribution system)	Collect one set of WQP samples from ten locations in the distribution system quarterly.
September 28, 2019	For the January through June 2019 monitoring, send us certification of consumer notice of lead and copper results compliance along with a sample copy of the notice delivered.	Download the Lead and Copper Report and Consumer Notice for Community Water Supply in Microsoft Word or PDF format from Michigan.gov/LCR.
Between January 1 and June 30, 2020	Collect 60 samples from the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice for Community Water Supply (download form at Michigan.gov/LCR). Report due July 10, 2020.
Between January 1 and June 30, 2020	Collect WQP samples. (Distribution system)	Collect one set of WQP samples from ten locations in the distribution system quarterly.
July 1, 2020	Report the 2019 AL exceedance in the CCR.	Specific lead health effects language must be included.
March 31, 2020	For the July through December 2019 monitoring, send us certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download the Lead and Copper Report and Consumer Notice for Community Water Supply in Word or PDF format from Michigan.gov/LCR.
September 29, 2020	For the January through June 2020 monitoring, send us certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download the Lead and Copper Report and Consumer Notice for Community Water Supply in Word or PDF format from Michigan.gov/LCR.
March 31, 2022	Collect one lead and copper sample from your entry point to the distribution system.	Repeat every third year until both ALs are met for the whole three-year period.

Mr. Darwin Watson Page 5 July 24, 2019

We recognize that the Lead and Copper Rule is complex and may be confusing. We will continue to offer assistance in implementing these regulations. If you have any questions, please contact us at BoltJ@Michigan.gov; OnanB@Michigan.gov; or at the phone numbers provided below.

Sincerely,

Jeni Bolt

Environmental Quality Specialist

Technical Support Unit

Drinking Water and Environmental

Health Division 517-331-5161

Brandon Onan

Corrosion Control Engineer

Engineering Unit

Drinking Water and Environmental

Health Division

616-307-6736

Enclosures (PA Checklist, PE Checklist, WQP Report Form, Tier Criteria)

cc: Ms. Nicki Britten, Berrien County Health Department

Mr. Nick Margaritis, Berrien County Health Department

Mr. Steve Crider, Michigan Department of Health and Human Services

Mr. Mike Bolf, Engineering Unit Supervisor, EGLE

Mr. Ernie Sarkipato, Surface Water Specialist, EGLE

Mr. Jeremy Klein, District Analyst, EGLE

cc/enc: Mr. Mike O'Malley, City of Benton Harbor

Sens & Emil Tholas 53



1. Supply Name:

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A – SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

City of Benton Harbor MI.

			ounty:	Berri	eN		. WSSN:	
		4. P	opulation:	9.670	5. Monitoring Period	t From: 1/1/	14	To: 6/30/19
		6. M	linimum # of Sa	amples Require	ed: 60 (Shorts	7. # of Sampl	les Taker	i: 47
		8. N	ame of Certifie	d Laboratory:	MOSO	Liberator	1.6	IN juicus
9. 8	SAMPL	E CRI	ITERIA:				•	-
	This	form	is for water LEAI	supplies col SERVICE L	lecting <u>some</u> or <u>a</u> INES. All other s	all lead and coppupplies should u	er samp se Form	oles from sites WITH
	Yes	No						
	A			•	m sites WITH lead s		i ress	
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	対	製	If no, explain	n (attach additio	es used as in the pronal pages if needed	<i>t</i>):		ple of sites from 201
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	Title:	: <u>B</u> e	Atop Har	bor water	Supt. Phone:	7269)363-	057B	MDEQ-DWMAD-CWSS-TSU
			ental Assistano 0-662-9278	e Center	Michigan.gov/EG	a granda granda granda	•	EQP5942a Rev. 5/2019

JPb7	JPb39	JPb36	JPb18	JPb19	JPb16	ЈВр37	JPb27	ЈВр4	JPb13	JPb30	JPb41	JPb46	Sample Location Code	
6/25/2019	6/26/2019	6/26/2019	6/25/2019	6/25/2019	6/25/2019	6/25/2019	6/27/2013	6/27/2019	6/27/2019	6/26/2019	6/26/2019	6/25/2019	Sample Date	i i i i i i i i i i i i i i i i i i i
1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	Tier	
Z	Z	2	7	7					-				Category	
N/A	N/A L	N/A	Building Plumbing	7/10/2019										
													Service Line	
									<u> </u>	~		~	Тар Туре	
0.035	0.023	0.013	0.000	0.000	0.005	0.000	0.029	0.014	800.0	0.006	0,003	0.012	Lead Result mg/L	1st Liter Sample
0.000	0.000 LI48017	0.000	0.000.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.1	Copper Result mg/L	mple
0 LI48016	148017	0.000 LI48019	0.000 LI48023	0.000 LI48022	0.000 LI48026)0 LI48027)0 LI48030	0.000 LI48031	DÖ LI48034	0.000 LI48035	00 LI48038	00 1148039	Lab Sample Number	
0.022	0.008	0.005	0.000	0.000	0.005	0.000	0.059	0.012	0.005	0.003	0.003	0.012	Lead Result mg/L	5th Liter Sample
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0,000	0.000		Copper Result mg/L	mple
0.000 1148015	0.000 LI48017	0.000 LI48020	0.000 LI48024	0.000 LI48021	0.000 L148025	0.000 LI48028	0.000 L148029	0.000 LI48032	0.000 LI48033	0.000 LI48036	0.000 LI48035	0.000 LI48040	Lab Sample Number	

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City of Benton Harbor		WSSW	600	Lead and Copper Report	Copper Re	port						E
				7/10/2019			1st Liter Sample	mple		5th Liter Sample	mple	E (C
C	7] = =		,		7	Lab		Copper	Lab R
Sample Location Code	Sample	<u>-1</u>) 	Building	Service	de	Result	.,	Sample		Result	호
rocation code	Date	Her	category	Plumbing	Line	Туре	mg/L	mg/L	Number	mg/L	mg/L	Number
JPb11	6/27/2019		1 A	N/A		×	0.008	0.000	0.000 LI48014	0.031	0.000	0.000 LI48013
JPb32	6/25/2019		1 A	N/A	F	=	0.021	0,000	0.000 LI48012	0.013	0.000	0.000 LI48011
JPb5	6/26/2019		A	N/A	r	~	0.003	0,000	0.000 Li48009	0.002	0.000	0.000 LI48010
JPb9	6/25/2019	H	D	N/A		~	0.005	0.000	.000 LI48008	0.003	0.000	0.000 LI48007
JPb58	6/26/2019	1	A	N/A		~	0.004	0.000	.000 LI48005	0.000	0.000	0.000 L148006
JPb54	6/26/2019	1	Α	N/A		~	0.004	0.000).000 LI48004	0.011	0.000	0.000 LI48003
JPb52	6/25/2019	1	A	N/A		×	0.000	0.000	.000 L148002	0.000	0.000	0.000 LI48001
JPb40	6/28/2019	1	Α	N/A		~	0.007	0.000	.000 LI47999	0.007	0.000	0.000 LI48000
JPb23	6/26/2019		Α	N/A	L	_	0.001	0,000	.000 LI47997	0.000	0.000	0.000 LI47998
JPb8	6/27/2019	H	A	N/A		~	0.022	0.000	.000 LI47995	0.024	0.000	0.000 L 47996
JPb20	6/25/2019	_F -2	A	N/A	L	7	0.005	0.000	.000 LI47994	0.012	0.000	0.000 LI47993
JPb38	6/24/2019	ы	A	N/A		~	0.007	0.000	.000 LI47991	0.005	0.000	0.000 LI47992
JPb43	6/25/2019		1 A	N/A	F	~	0.000	0.000	.000 LI47990	0.000	0.000	0.000 LI47989

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				7/10/2019			1st Liter Sample	mple		5th Liter Sample	mple	
· · · · · · · · · · · · · · · · · · ·	-		2	:			Lead	Copper	Lab	Lead	Copper	Lab
Sample	Sample			Building	Service	Tap	Result	Result	Sample	Result	Result	Sample
Location Code	Date	Tier	Category	Plumbing	Line	Туре	mg/L	mg/L	Number	mg/L	mg/L	Number
JPb48	6/27/2019	<u> </u>	A	N/A		~	0.004	0.000	0.000 L147988	0.005	0.000 L147987	Ę
JPb44	6/25/2019	H	Α	N/A	, <u>-</u>		0.003	0,000	0.000 LI47985	0.003	0.000 L147986	Ę
JPb42	6/26/2019	1	A	N/A	_	<u></u>	0.000	0.000	0.000 LI47983	0.000	0.000 L147984	E
JPb51	6/24/2019	1	1 A	N/A	F	~	0.012	0,000	00 L147981	0.017	0.000 LI47982	<u> </u>
JPb60	6/27/2019	ь	Α	N/A	<u></u>	~	0.004	0.000	0.000 LI47979	0.021	0.000 L147980	든
JPb22	6/25/2019	<u> г</u>	1 A	N/A		~	0.003	0.000	0.000 LI47977	0.002	0.000 LI47978	LI4
JPb33	6/25/2019	1	A	N/A	 -	~	0.015	0.000	0.000 LI47975	0.006	0.000 LI47976	LI4
JPb26	6/25/2019	1	A	N/A			0.004	0.050	0.050 LI47973	0.002	0.060 LI47974	41
JРb49	6/24/2019	1 A	A	N/A			0.011	0.000	0.000 LI47971	0.019	0.000 LI47972	4
JPb28	6/27/2019	- H	A	N/A		×	0.002	0,000	0.000 LI47969	0.002	0.000 L147970	[4]
JPb34	6/29/2019	ь->	A	N/A			0.001	0.000 LI47967	.147967	0.001	0.000 L147968	14.
JPb50	6/26/2019	1	A	N/A		~	0.010	0.000 LI47965	.147965	0.036	0.000 LI47966	14
JPb1	6/25/2019	P	A	N/A	r		0.000	0.000 L147963	147963	0.000	0 000 147964	<u> </u>

IDH20 6/25/	JPb15 6/25/2019	JPb60 6/27/2019	JPb55 6/26/2019	JPb14 6/26/2019	JPb24 6/26/2019	JPb17 6/27/2019	JPb47 6/24/2019	Location Code Date	Sample Sample			City of Benton Harbor
6/25/2019	2019	2019	2019	2019	2019	2019	2019	Tier	ro			NSSM
1 <u> </u>	1 A	1 A	1 A	1 A	1 A	1 A	1 A	Category	<u>ger-and</u>			600
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Plumbing	Building		7/10/2019	Lead and Copper Report
	F				F.	F		Line	Service			opper Re
^		~	7	7	~	7	~	Туре	Tap			port
0.014	0.009	0.002	0.000	0.006	0.002	0.000	0.044	mg/L	Result	Lead	1st Liter Sample	
0.000	0,000	0.000	0,000	0.000	0.000	0.000	0.000	mg/L	Result	Copper	mple	
000 LI47947	000 LI47949	000 LI47953	000 LI47951	.000 LI47955	0.000 LI47958	0.000 LI47959	0.000 Li47961	Number	Sample	ы		
0.018	0.008	0.003	0.000	0.007	0.003	0,000	0.023	mg/L	Result	Lead	5th Liter Sample	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	mg/L	Result	Copper	mple	
0.000 LI47948	0.000 LI47950	0.000 LI47954	0.000 LI47952	0.000 LI47956	0.000 LI47957	0.000 LI47960	0.000 LI47962	Number	Sample	Lab E	CE	IVED

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MDEQ-DWMAD-CWSS-TSU

EGLE

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM

EQP5942a

CONSUMER NOTICE OF LEAD AND COPPER RESULTS REQUIREMENTS AND CERTIFICATION

Each community water supply must deliver a Consumer Notice of Lead and Copper Results (Consumer Notice) to the occupants at each location sampled within 30 days of learning the sample results as required under R 325.10410(5) of the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. Failure to deliver the Consumer Notice to each location on time will result in a reporting violation.

Instructions:

- A. Use the Consumer Notice Form A template for sites with lead service lines or Consumer Notice Form B template for sites without lead service lines. See the examples on Page 10 to document results from both sites with a lead service line and without a lead service line.
- B. Complete one Consumer Notice for each home or building that was sampled. MAKE SURE UNITS ARE CORRECT BEFORE DISTRIBUTING TO CONSUMERS.

Note: 1 mg/L = 1 ppm = 1,000 ppb

Example: 0.002 mg/L = 0.002 ppm = 2 ppb

- C. Mail or hand deliver each Consumer Notice to the corresponding home or building sampled.
- D. Water supplies have 90 days after the end of the monitoring period to submit a sample copy of the Consumer Notice along with a signed certification that notices have been distributed as required under R 325.10710d(f)(3) to the appropriate EGLE district office. When possible, EGLE encourages water supplies to send the sample Consumer Notice and certification (page 4 of this document) along with the Lead and Copper Report (pages 1 and 2 of this document), which is due within ten days after the end of the monitoring period. Please COMPLETE all forms accurately to avoid resubmittal.

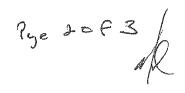
Certification:

I hereby certify that the Consumer Notice of Lead and Copper Results (Consumer Notice) has been provided to persons served at each of the taps that were tested, including all the following information:

- Delivery was by mail, hand delivery, or another method approved by EGLE.
- Delivery was within 30 days of knowing the result.

Consumer Notice includes required content: The results of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring to the health effects of lead and copper tap monitoring tap monitori	d copper. to lead in drinking water.
Please initial each line verifying that each requirement was comp	pleted:
A Consumer Notice was sent to persons served at each of	
Delivery was by mail, hand delivery, or another method approximately Each Consumer Notice was delivered to the resident with	in 30 days of knowing the results.
Each Consumer Notice included the required content as so A sample copy of a Consumer Notice sent to a resident is Berton Hurbor Operator	attached. (reducted)
Signature Title Mil Mege, and Mailed 47 of Sent the letter any way, Page 3 of 10 I how what the result were	Date
Sent the letter any way, I have what the result were	•

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A





EQP5942a

CONSUMER NOTICE OF LEAD AND COPPER RESULTS IN DRINKING WATER at a SITE WITH A LEAD SERVICE LINE OR A PORTION OF OR REPLACED BY A COPPER LINE

Thank you for helping Benton Harbor get the Lead Out. The City Water Department exceeded the Lead Action Level in September, 2018. Many things had to happen, specifically, The City was required to go back to the Original Sampling Date (1991) and collect 2 sets of 60 samples in 2019. This June was our 1st set and these are your testing results.

We propose to sample the 2nd set in September.

If you would like to participate in September, please call Toni at the Water Plant (269) 447-1945, please be patient with our new phones. If you do not get an answer, please leave a message.

If you have sampled before and the results look different, that is likely due to the new 5-bottle procedure. It could also be a result of the new Lead Corrosion Treatment we started using March 26,2019. This treatment is specifically designed to remove Lead and other metals from the tap water in order to eliminate those heavy metal contaminates from your home's drinking water.

This corrosion treatment will likely do an even better job of it by the September sampling, as we put more in every day for as long as it takes to physically remove All Lead in the System. Removal will be expensive and will take a long time to raise all the money needed.

Water Supply Name: Benton Harbor Water WSSN#: MI0600; Berrien County, MI.

Name: 1

Address: 140

Your Home's Code: JPB1

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below. Your home is served by a known lead service line, a presumed Lead Service line or was served at 1 time by lead; but replaced with Copper. This means that the pipe that brings water to your home contains lead. The first liter sample represents the water you are likely to drink when turning on the tap, and the fifth liter sample likely represents the water in the service line.

Contaminant	Action Level	Maximum Contaminant Level Goal	1 st Liter Result	5 th Liter Result
Lead (ppb)	15	0	0	0
Copper (ppb)	1300	1300	0	0

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

ppb: Parts per billion or micrograms per liter.

ND: Not detected.

To reduce exposure to lead and copper in drinking water:

• Run your water before drinking. The more time water has been sitting in your home's pipes, the more lead it may contain. Therefore, if your water has not been used for several hours, run the water before using it for drinking or cooking. This flushes lead-containing water from the pipes. Additional flushing may be required

for homes that have been vacant or have a longer service line.

o If you **do not** have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.

Ps 3 5 3

 If you do have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.

- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap. Lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
 - Consider using a filter to reduce lead in drinking water. Read the package to be sure the filter is NSF 53 certified to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for more information.
- Consider purchasing bottled water. The bottled water standard for lead is 5 ppb.
- Identify older plumbing fixtures that likely contain lead. Older faucets, fittings, and valves sold before 2014 may contain higher levels of lead, even if marked "lead-free." Faucets, fittings, and valves sold after January 2014 are required to meet a more restrictive "lead-free" definition but may still contain up to 0.25 percent lead.
 - Clean your aerator. As part of routine maintenance, the aerator should be removed at least every six months to rinse out any debris that may include particulate lead.
 - Get your child tested. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure.

Lead can cause serious health and developmental problems. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. Although other sources of lead exposure exist, such as lead paint, and lead contaminated dust, your water supply is contacting you to reduce your risk of exposure to lead in drinking water. If you have questions about other sources of lead exposure, please contact your local health department.

<u>Copper</u> is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Although the primary sources of lead exposure for most children are from deteriorating lead-based paint, lead- contaminated dust, and lead-contaminated soil, the United States Environmental Protection Agency (U.S. EPA) estimates that 20 percent or more of human exposure to lead may come from drinking water. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's website at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

For more information on copper, visit the United States Center for Disease Control website at www.atsdr.cdc.gov/index.html, or contact your health provider.

For more information regarding your water supply, contact us at: Mike (269) 363-0575

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USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48031

Work Order:

90700565 01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB4B1

Township/Well#/Section:

//

Collector:

Other

County:

Berrien

Date Collected:

06/27/2019

12:30

Sample Point: Water System: KITCHEN SINK FIRST DRAW Public System Surface Water

Date Received: Purpose:

07/03/2019 13:22 Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.014	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148032

Work Order:

90700565 02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB4B5

Collected By:

RESIDENT

Site Code:

Other

Township/Well#/Section: County:

// Berrien

Collector: Date Collected:

06/25/2019

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

06:40 13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INI	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.012	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

7/23/19 from Mike O'Mille 9/19 Concerns about PORT-OF-OFFORTUNITIES Date at Time difference City of Behton Harbor 200 East Wall Street
了Pb 中 From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem
like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out
of Benton Harbor. Thank you
Dear Resident; staying at: thank you for assisting us.
Dear Resident; Staying at: thank you for assisting us. To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JPB4 To Sympletic S
Keep track of this code JPB4 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1st Draw" No he:
The 5 bottles in your box need to be filled one after another for the State required testing. How person made
Bottle 1 is the 1st draw and is used to sample for lead in water in the home. I Suc it was done
Bottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder Mistake Wish
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need: The 3th te Report 5th CF
The date and time you turned the water off for the 6-hour holding time: $\pm \tau = 6/25/6:40$
Water Off: Date: $\frac{6/3.5/30.19}{1000}$ Time: $\frac{13.30}{1000}$ AM
Then the Date and Time you started to collect the 5 sample bottles:
Water Sample at: Date: 6/25/2019 Time: 6:40 AM
Water Sample at: Date: <u>@/35/30/30/7</u> Time:
K If different please add: IN A DUNLED W 11/160 IN INC.
At the residence of 2 of fact with 1) with oft 2 of fact with 1) with oft 2) 5 mg/e to ken
Wif you would be willing to do this again in August of September this year Check here:
Put everything in the box and leave it outside for us to pick up.
If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.
You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.
Nones Address & phone are sedected Nones Address & phone are sedected to keep EGLE from sharing with State Robbic Redisors



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47952

Work Order:

90700525 02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

600

Source: Site Code: TYPE I JPB55B1

RESIDENT

Collector:

Other

Township/Well#/Section:

WSSN/Pool ID:

06/26/2019

08:00

County:

Berrien

Date Collected: Date Received:

07/03/2019

13:16

Sample Point: Water System:

Collected By:

KITCHEN SINK FIFTH Public System Surface Water

Purpose:

Routine Monitoring

Sample Comment

LI47952

Corrected report. Disregard previous report for this sample number. Sample did not meet collection volume requirements for test code CCUB when received at the lab. Container was not filled to the base of the neck per sample collection instructions.

TESTING INFORMATION

REGULATORY INFORMATION

	TESTING INFORMA	TREGOLD TO THE OF THE O					
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Copper Lead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1
						tal Protection Agency in	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

mg/L: milligrams / Liter (ppm)

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	•	



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47952

Work Order:

90700525_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Source:

TYPE!

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Site Code:

JPB55B1

Collected By: Township/Well#/Section: RESIDENT

Collector:

Other 07/03/2019

// Berrien Date Collected:

06:26

County: Sample Point:

KITCHEN SINK FIFTH

Date Received:

07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

Sample Comment

LI47952

Sample did not meet collection volume requirements for test code CCUB when received at the lab. Container was not filled to the base of the neck per sample

collection instructions. Result(s) may not be accepted for compliance purposes.

	REGULATORY INFORMATION						
Analyte Name	TESTING INFORM Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
ррег	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ad	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47951

Work Order:

90700525 01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

Source:

600

RESIDENT

Site Code:

WSSN/Pool ID:

TYPE I JPB55B5

Township/Well#/Section:

//

Collector:

Other

County:

Berrien

Date Collected:

06/26/2019

08:00

Sample Point: Water System:

Collected By:

KITCHEN SINK FIRST DRAW Public System Surface Water

Date Received: Purpose:

07/03/2019 Routine Monitoring

13:16

Sample Comment

LI47951

Sample did not meet collection volume requirements for test code CCUB when received at the lab. Container was not filled to the base of the neck per sample

collection instructions. Result(s) may not be accepted for compliance purposes

	TESTING INFORM	ATION	esuit(s) m	ay not be accep		npliance purpose EGULATORY INF	
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service

Laboratory Contact: Marlene Kane



City of Bonton Harbur Sacras Ppt Succe Bancon Harbay Machine Pro-

From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you thank you for assisting us. Staying at Dear Residenta To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: PRIS 5 5 Keep track of this code areas you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community. Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1" Draw" The 5 bottles in your box need to be filled one after another for the State required testing. Bottle 1 is the 1st draw and is used to sample for lead in water in the home. Bottle 2 is a place holder; Bottle 3 is a place holder, Bottle 4 is the last place holder Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street. Please fill out this sheet once you are done. We need: The date and time you turned the water off for the 6-hour holding time: Water Off: Date: 1/1/25 Then the Date and Time you started to collect the 5 sample bottles: Water Sample at: Date: 4/2019 Please then sign or initial your name: If different please add: _ At the residence of Contact Information: If different please add: If you would be willing to do this again in August of September this year Check here: Put everything in the box and leave it outside for us to pick up. If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.

		,	



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47961

Work Order:

90700530_01

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System: BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

IIBerrien

KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID:

600 TYPE I Source:

Site Code:

Purpose:

JPB47B1 Other

Collector: Date Collected: Date Received:

06/24/2019

07/03/2019

23:30 13:16

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	TESTING INFORMA	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.044	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED JUL 09 2019 MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47962

Work Order:

90700530 02

System Name/Owner:

Collection Address:

RESIDENT

Township/Well#/Section:

County:

Sample Point: Water System:

Collected By:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Berrien KITCHEN SINK FIFTH DRAW

Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

JPB47B5 Other

600

Date Collected: Date Received: 06/25/2019 07/03/2019

TYPE I

06:35 13:16

Purpose:

Collector:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.023	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

Reported Nales



Ony of Degrees Carises 200 feet 900 doors documentables planters 1000 is

From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem

like it, but you are providing a valuable service to the Water Department in our quest to get the lead out of Benton Harbor. Thank you
Dear Resident; staying at thank you for assisting us.
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JPB47
Keep track of this code IPB47 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1" Draw"
The 5 bottles in your box need to be filled one after another for the State required testing.
Bottle 1 is the 1 st draw and is used to sample for lead in water in the home.
Bottle 2 is a place holder: Bottle 3 is a place holder; Bottle 4 is the last place holder
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need:
The date and time you turned the water off for the 6-hour holding time: Water Off: Date: 6-24-19 Time: 11: 30 PM
Then the Date and Time you started to collect the 5 sample bottles:
Water Sample at: Date: 6-25-19 Time: 6:35 9M
Please then sign or initial your name:
If different please add:
At the residence of Marco
Please then sign or initial your name: If different please add: At the residence of MDEQ-DWMAD CWSS-TSU If different please add:
If you would be willing to do this again in August of September this year Check here:
Put everything in the box and leave it outside for us to pick up.

If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147970

Work Order:

90700534_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

600

00

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB28B5

Collected By:

RESIDENT

Site Code:

Other 06/27/2019

Township/Well#/Section:

//

Collector:
Date Collected:

WSSN/Pool ID:

05:00

County: Sample Point: Berrien KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47969 Work Order:

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600 90700534 01

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Collected By:

Source:

TYPEI JPB28B1

RESIDENT

Site Code:

Other

06/27/2019

Township/Well#/Section: County:

// Berrien

Collector: Date Collected:

18:00

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

13:16

Water System:

Public System Surface Water

Purpose:

07/03/2019 **Routine Monitoring**

	TESTING INFORM	IATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

Corrected tohel



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From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Dear Resident; staying at thank you for assisting us.
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JPB28
Keep track of this code IPB28 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1^{π} Draw"
The 5 bottles in your box need to be filled one after another for the State required testing.
Bottle 1 is the 1" draw and is used to sample for lead in water in the home.
Bottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need:
The date and time you turned the water off for the 6-hour holding time:
Water Off: Date: W'OD PIN Time: Lo-5-6-19 PB 6-36-9
Then the Date and Time you started to collect the 5 sample bottles:
Water Sample at: Date: CE-21-19 Time: 5:00 AM
Please then sign or initial your name: If different please add: JUL 19 2019
If different please add: FB JUL 19 2010
At the residence of MDEQ-DWMAD-CWSS-1SU
Contact Information: If different please add:
If you would be willing to do this again in August of September this year Check here.
Put everything in the box and leave it outside for us to pick up

If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48023

Work Order:

90700561_01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Collected By: Township/Well#/Section:

//

County:

Berrien

Sample Point: Water System: KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID:

600 TYPE I

Source: Site Code:

JPB18B1

Collector:

Other

Date Collected:

06/25/2019 07/03/2019 00:01 13:22

Date Received: Purpose:

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	TESTING INFORM	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Page 1 of 1



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48024

Work Order:

90700561 02

System Name/Owner:

Township/Well#/Section:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

11

County:

Collected By:

Sample Point: Water System: Berrien

KITCHEN SINK FIFTH DRAW

Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

JPB18B5 Other

600

TYPE I

Collector: Date Collected:

06/25/2019

06:00 13:22

Date Received: Purpose:

07/03/2019 Routine Monitoring

TE	STING INFOR	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

le consultation



Chy of Apittep Hurbus 1911 kan Woll down Banion Barry, Mangan 1992.

From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Dear Resident; Paying at: Paying
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JPB18
Keep track of this code JPB18 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1^{tt} Draw"
The 5 bottles in your box need to be filled one after another for the State required testing.
Bottle 1 is the 1" draw and is used to sample for lead in water in the home.
Bottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need:
The date and time you turned the water off for the 6-hour holding time:
Water Off: Date: U-25-/9 Time: 10: CC Am
Then the Date and Time you started to collect the 5 sample bottles:
Water Sample at: Date: 4-25-19 Time: 4; CC mm
Please then sign or initial your name: If different please add: At the residence of MDEQ-DWMAD
If different please add:
At the residence of MDEO-D
At the residence of MDEQ-DWMAD-CWSS-TSU
If you would be willing to do this again in August of September this year Check here:
Put everything in the box and leave it outside for us to pick up.
If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47972

Work Order:

90700535_02

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: **BENTON HARBOR COMPLIANCE 2019**

200 EAST WALL ST, BENTON HARBOR

RESIDENT //

Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

Purpose:

600 TYPE I Source:

JPB49B5 Site Code: Other Collector:

Date Collected:

06/25/2019 07/03/2019 04:00 13:16

Date Received: Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
pper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
nd ad	0.019	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47971

Work Order:

22:00

90700535 01

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID: 600 Source: TYPE I

Collected By:

RESIDENT

JPB49B1

Township/Well#/Section:

Site Code: Collector: Other

County: Sample Point: Berrien Date Collected: 06/24/2019

Water System:

KITCHEN SINK FIRST DRAW Date Received: 07/03/2019 13:16 Public System Surface Water Purpose: Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.011	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

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mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



City of Neuton (Instance) and pair Will Street Decrea Bookse McDiscot 1903

From Mike O'Mailey, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Activities in the second of th
o Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JP849
(eep track of this code IPB49 you may want to look and see where your home is in relation to the other in second to the other is sometimes. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses my water in the house. As you know we call that "The 1" Draw"
he 5 bottles in your box need to be filled one after another for the State required testing.
lottle 1 is the 1" draw and is used to sample for lead in water in the home.
ottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder
lottle S is the sample taken S Liters and is used to sample for lead farther out toward the street.
lease fill out this sheet once you are done. We need:
he date and time you turned the water off for the 6-hour holding time:
Vater Off: Date: Lo = ZU = 19 Time: 10100 PM
hen the Date and Time you started to collect the 5 sample bottles:
Nater Sample at: Date: 6-25-15 Time: 4.00 A,M RECORDS
Vater Sample at: Date: 6-25-19 Time: 7.00 A.M RECEIVED
f different please add:
At the residence of
Contact Information: If different please add:
f you would be willing to do this again in August of September this year Check here
Put everything in the box and leave it outside for us to pick up.
f you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

RESIDENT

Berrien

//

Sample ID:

L147995

Work Order:

90700547_01

System Name/Owner: Collection Address:

Township/Well#/Section:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Source:

600

Site Code:

TYPE I JPB8B1

Collector:

Other

Date Collected:

WSSN/Pool ID:

06/27/2019

05:00

KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:22

Sample Point: Water System:

Collected By:

County:

Public System Surface Water

Purpose:

Routine Monitoring

TESTING INFORMATION						REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#	
opper	Not detected	mg/L	0,05	07/08/2019	1.3	EPA 200.8	7440-50-8	
ead	0.022	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1	

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47996

Work Order:

90700547_02

System Name/Owner:

200

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB8B5 Other

Township/Well#/Section:

//

Collector:
Date Collected:

06/27/2019 15:30

County:

Berrien KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
ррег	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ad	0.024	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

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MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



City of Righton Coffier and Paul Sail Speci Robins Waters Michigan 1982)

From Mike O'Malley, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Di pomortino out translat
Dear Resident: staying at a second thank you for assisting us.
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JP88
Keep track of this code IPB8 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
Once you have let your water sit for 6 or more hours, you need to begin the testing before anyone uses any water in the house. As you know we call that "The 1" Draw"
The 5 bottles in your box need to be filled one after another for the State required testing.
Bottle 1 is the 1" draw and is used to sample for lead in water in the home.
Bottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need:
The date and time you turned the water off for the 6-hour holding time:
Water Off: Date: 6/05/14 Time: 5.00 6.00
Then the Date and Time you started to collect the 5 sample bottles:
Water Sample at: Date: 4/35/19 Time: 3:30 pm
Please than sign or initial your name: If different please adds JUL 19 2019
If different please add:
At the residence of MDEQ-DWMAD-CWSS-TSU
Contact Information: different please add:
If you would be willing to do this again in August of September this year Check here:
Put everything in the box and leave it outside for us to pick up.
if you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47959

Work Order:

90700529_01

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: **BENTON HARBOR COMPLIANCE 2019**

200 EAST WALL ST, BENTON HARBOR

RESIDENT

//

Berrien KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID:

600 Source:

Site Code:

TYPE I JPB17B1

Collector: Date Collected:

Date Received:

Other

06/27/2019

07/03/2019

21:30 13:16

Purpose:

Routine Monitoring

TESTING INFORMATION						REGULATORY INFORMATION			
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#		
Connar	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8		
copper ead	Not detected	mg/∟	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1		

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUL 09 2019 MDEQ-DWMAD-CWSS-TSU

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USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147960

Work Order:

90700529 02

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County: Sample Point:

Collected By:

Water System:

Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

600 Source:

TYPE I JPB17B5

Collector:

Site Code:

Other

Date Collected: Date Received: 06/27/2019 07/03/2019

04:53 13:16

Purpose:

Routine Monitoring

	TESTING INFORM	IATION			RI	GULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

Carried (Je)



Chip of Demon Harbar and Rea Walf Social Jacque Harbar, Michigan 19023

From Mike O'Mailey, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Dear Resident; staying at staying at thank you for assisting us.
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: JPB17
Keep track of this code JPB17 you may want to look and see where your home is in relation to the other 59 homes we will be sampling. A table showing all 60 will be available to the community.
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The 5 bottles in your box need to be filled one after another for the State required testing.
Bottle 1 is the 1st draw and is used to sample for lead in water in the home.
Bottle 2 is a place holder; Bottle 3 is a place holder; Bottle 4 is the last place holder
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out toward the street.
Please fill out this sheet once you are done. We need:
The date and time you turned the water off for the 6-hour holding time:
Water Off: Date: Lung 26 3019 Time: 9'30 pm
Then the Date and Time you started to collect the 5 sample bottles: Water Sample at: Date: 142019 Time: 4.53 0.10
Please then sign or initial your name: The state of the sign of th
If different please add:
At the residence of
Contact Information: If different please add:
If you would be willing to do this again in August of September this year Check here:
Put everything in the box and leave it outside for us to pick up.
If you could call Toni at the water plant (269) 447-1945 with questions or that you are ready.

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message.



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48034

Work Order:

90700566_02

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System: BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

// Berrien

KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

Purpose:

Collector: Date Collected:

Date Received:

06/27/2019 07/03/2019

600

TYPE I

Other

JPB13B1

22:50 13:22

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3 0.015	EPA 200.8 FPA 200.8	7440-50-8 7439-92-1
ad	0.008	mg/L	0.001	07/08/2019	0,015	EPA 200.0	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48033

Work Order:

90700566_01

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Collected By: Township/Well#/Section:

//

County: Sample Point: Berrien

Water System:

KITCHEN SINK FIFTH DRAW

Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Source: Site Code: TYPE I JPB13B5

Collector:

Other

Date Collected: Date Received: 06/27/2019 07/03/2019

06:00 13:22

Purpose:

Routine Monitoring

					KI	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.005						1 770 00-0

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUL 09 2019 MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019

4:00:24PM

Collected label 1919



Chy of Benton Hadau 200 for Od Seed General Hades Budget (201)

From Mike O'Mailey, your Benton Harbor Water Guy. Your help is really appreciated. It may not seem like it, but you are providing a valuable service to the Water Department in our quest to get the Lead out of Benton Harbor. Thank you

Dear Resident; staying staying thank you for assisting us	é d
To Help Assure Your Privacy, we have assigned a code to you home. Your Code is: IF	·B13
Keep track of this code you may want to look and see where your home is in r 59 homes we will be sampling. A table showing all 60 will be available to the commi	
Once you have let your water sit for 6 or more hours, you need to begin the testing any water in the house. As you know we call that "The 1^{16} Draw"	defore anyone uses
The 5 bottles in your box need to be filled one after another for the State required to	esting
Bottle 1 is the 1 st draw and is used to sample for lead in water in the home.	
Bottle 2 is a place holder. Bottle 3 is a place holder; Bottle 4 is the last place holder	
Bottle 5 is the sample taken 5 Liters and is used to sample for lead farther out towar	d the street
Please fill out this sheet once you are done. We need:	
The date and time you turned the water off for the 6-hour holding time:	
Water Off: Date: 6/24/19 Time: 10:50 f.	<u> A</u>
Then the Date and Time you started to collect the 5 sample bottles:	
Water Sample at: Date: 6/25/19 Time: 6:00	A. 1
Please then sign or initial your name:	
If different please add:	i wad
At the residence of	10/ 19 2019
Contact Information: If different please add:	MDEQ-DWMAD CWSS-TSU
If you would be willing to do this again in August of September this year Check here	
Put everything in the box and leave it outside for us to pick up.	
if you could call Toni at the water plant (269) 447-1945 with questions or trial you are	: ready

You can call Mike at the water plant (269) 204-2733 but I am very hard to reach, leave message



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147947

Work Order:

90700523_01

System Name/Owner:

Township/Well#/Section:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB29B1

Collector:

Other

Public System Surface Water

Date Collected:

06/25/2019 07/03/2019 05:30

County: Sample Point: Water System: Berrien

//

Date Received: KITCHEN SINK FIRST DRAW

Purpose:

Routine Monitoring

13:16

TESTING INFORMATION				REGULATORY INFORMATION			
Result	Units	RL	Date	I MCI/ALI	Method	CAS#	
			Tested			CA3#	
Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8	
0.014	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1	
	Not detected	Not detected mg/L	Not detected mg/L 0.05	Result Units RL Tested Not detected mg/L 0.05 07/08/2019	Result Units RL Tested MCL/AL Not detected mg/L 0.05 07/08/2019 1.3	Result Units RL Tested MCL/AL Method Not detected mg/L 0.05 07/08/2019 1.3 EPA 200.8	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL **09** 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

LI47948 Sample ID:

Work Order: 90700523_02

System Name/Owner: **BENTON HARBOR COMPLIANCE 2019** WSSN/Pool ID: 600 Collection Address: 200 EAST WALL ST, BENTON HARBOR Source: TYPE I Collected By: RESIDENT Site Code: JPB29B5 Township/Well#/Section: Collector: Other

County: Berrien Date Collected: 06/25/2019 05:30 Sample Point: KITCHEN SINK FIFTH DRAW Date Received: 07/03/2019 13:16 Water System: Public System Surface Water Purpose: Routine Monitoring

	TESTING INFORM	//ATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.018	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47949

Work Order:

90700524_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB15B1

Collected By:

MIKE O'MALLEY

Site Code: Collector:

Other

Township/Well#/Section: County:

// Berrien

Date Collected:

06/25/2019 07/03/2019

06:00 13:16

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

Date Received: Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	GULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.009	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

ng/L: nanograms / Liter (ppt)
MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID: LI47950

Work Order: 90700524_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

TYPE I JPB15B5

Collected By:

RESIDENT Site Code:

Township/Well#/Section:

Other ed: 06/25/2019

County: Berrien

Date Collected:

Source:

Collector:

06:00 13:16

Sample Point: Water System: KITCHEN SINK FIFTH DRAW
Public System Surface Water

Date Received: Purpose:

07/03/2019 13 Routine Monitoring

	TESTING INFORMA	NOITA			RE	GULATORY INFO	PRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.008	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47954

Work Order:

90700526_02

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

BENTON HARBOR COMPLIANCE 2019

600

Source: Site Code: TYPE I JPB6B5

RESIDENT //

Collector:

WSSN/Pool ID:

Other

Township/Well#/Section: County:

Rerrien

Date Collected:

06/27/2019 07/03/2019 16:00 13:16

Sample Point: Water System:

Collected By:

KITCHEN SINK FIFTH DRAW Public System Surface Water

Date Received: Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47953

Work Order:

90700526_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB6B1 Other

Township/Well#/Section:

Collector: Date Collected:

06/27/2019 16:00

County:

Berrien KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:16

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Mariene Kane

4:00:24PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147955

Work Order:

90700527_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR WSSN/Pool ID:

600

Collection Address:

RESIDENT

Source:

TYPE I JPB14B1

Collected By: Township/Well#/Section:

11

Site Code: Collector:

Other

County:

Berrien

Date Collected:

06/26/2019

07:45

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.006	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147956

Work Order:

90700527_02

System Name/Owner:

Collection Address:

RESIDENT

II

Township/Well#/Section:

County:

Sample Point: Water System:

Collected By:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

Date Received:

Source: Site Code:

JPB14B5 Collector: Other

Date Collected:

06/26/2019 07/03/2019

600

TYPE I

07:45 13:16

Purpose:

Routine Monitoring

	TESTING INFORM	IATION			RE	GULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.007	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

MIKE O'MALLEY Report To:

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47958

Work Order:

90700528 02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB24B1

Collected By:

RESIDENT

Site Code: Collector:

Other

Township/Well#/Section: County:

Berrien

Date Collected:

06/26/2019 07/03/2019 07:00

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	REGULATORY INFORMATION					
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID: LI47957

> Work Order: 90700528_01

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR WSSN/Pool ID: 600 Source: TYPE I

Collected By:

County:

Site Code:

JPB24B5

Other

Township/Well#/Section:

RESIDENT IIBerrien

Collector: Date Collected:

06/26/2019

07:00

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:16

Water System: Public System Surface Water Purpose: Routine Monitoring

	TESTING INFORM	IATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUL 09 2019 MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

Al : Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47964

Work Order:

90700531_02

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County:

Collected By:

Berrien

//

Sample Point: Water System:

KITCHEN SINK FIFTH DRAW Public System Surface Water

Not detected

accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

WSSN/Pool ID:

Source:

Site Code:

Collector:

Date Collected: Date Received:

Other 06/25/2019

600

TYPE I

JPB1B5

07:00 13:16

07/03/2019 Purpose: Routine Monitoring

REGULATORY INFORMATION TESTING INFORMATION Date CAS# MCL/AL Method Units RL **Analyte Name** Result Tested 7440-50-8 **EPA 200.8** 0.05 07/08/2019 1.3

Copper EPA 200.8 7439-92-1 07/08/2019 0.015 Not detected mg/L 0.001 Lead

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

mg/L

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

MIKE O'MALLEY Report To:

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47963

Work Order:

90700531_01

System Name/Owner: **BENTON HARBOR COMPLIANCE 2019** WSSN/Pool ID: 600 Collection Address: 200 EAST WALL ST, BENTON HARBOR Source: TYPE I Collected By: RESIDENT Site Code: JPB1B1 Township/Well#/Section: Collector: Other

County: Berrien Date Collected: 06/25/2019 07:00 Sample Point: KITCHEN SINK FIRST DRAW Date Received: 07/03/2019 13:16 Water System: Public System Surface Water Purpose: Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
copper	Not detected	mg/L	0.05	07/08/2019	1,3	EPA 200.8	7440-50-8
ead	Not detected	m g /L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on: 7/9/2019 4:00:24PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47965

Work Order:

90700532_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB50B1

Collected By:

RESIDENT

Site Code: Collector:

Other

Township/Well#/Section: County:

// Berrien

Date Collected:

06/26/2019

08:30

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	NOITA			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.010	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47966

Work Order:

90700532_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB50B5

Collected By: Township/Well#/Section:

RESIDENT //

Site Code:

Other

County:

Berrien

Collector: Date Collected:

06/26/2019 08:30

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

13:16

Water System:

07/03/2019 Public System Surface Water Purpose: Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.036	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

4:00:24PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47968

Work Order:

90700533_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB34B5 Other

Township/Well#/Section:

//

Collector:
Date Collected:

08:00

County:

Berrien

Date Received:

06/29/2019 07/03/2019

13:16

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	TION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.001	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47967

Work Order:

90700533_01

System Name/Owner: BENTON HARBOR COMPLIANCE 2019 WSSN/Poc Collection Address: 200 EAST WALL ST,BENTON HARBOR Source: Collected By: RESIDENT Site Code:

Township/Well#/Section: //

Analyte Name

Berrien

Sample Point: Water System:

County:

Copper

KITCHEN SINK FIRST DRAW Public System Surface Water

TESTING INFORMATION

Result

Not detected

accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

WSSN/Pool ID: 600

Date

Tested

07/08/2019

Source: TYPE I
Site Code: JPB34B1
Collector: Other

 Date Collected:
 06/29/2019
 08:00

 Date Received:
 07/03/2019
 13:16

 Purpose:
 Routine Monitoring

1.3

REG	ULATORY INFOR	MATION
MCL/AL	Method	CAS#

7440-50-8

EPA 200.8

Lead 0.001 mg/L 0.001 07/08/2019 0.015 EPA 200.8 7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in

0.05

Units

mg/L

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019

4:00:24PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47973

Work Order:

90700536_01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County: Sample Point:

Collected By:

IIBerrien

Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

Source: Site Code:

JPB26B1 Other Collector:

Date Collected:

06/25/2019

600

TYPE I

06:15 13:16

Date Received: Purpose:

07/03/2019

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	0.05	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.004	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL **09** 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47974

Work Order:

90700536_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Berrien

Site Code:

JPB26B5

Township/Well#/Section:

Collector:

Other

Date Collected:

06/25/2019

06:15

County: Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	0.06	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



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Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47975

Work Order:

90700537_01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID: Source:

600

TYPE I

Collected By:

RESIDENT

Site Code:

JPB33B1

Township/Well#/Section:

//

Collector:

Other

06/25/2019

County: Sample Point: Berrien

KITCHEN SINK FIRST DRAW

Date Collected: Date Received:

07/03/2019

09:00 13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.015	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL **09** 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

MIKE O'MALLEY Report To:

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47976

Work Order:

90700537 02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR RESIDENT

Source: Site Code:

WSSN/Pool ID:

600

TYPE I JPB33B5

Collector:

Other

County:

Township/Well#/Section:

Analyte Name

Berrien

KITCHEN SINK FIFTH DRAW

Date Collected: Date Received:

Date

Tested

06/25/2019 07/03/2019 09:00 13:16

Sample Point: Water System:

Collected By:

Public System Surface Water

TESTING INFORMATION

Result

Purpose:

Routine Monitoring

REGULATORY INFORMATION MCL/AL Method CAS#

Copper Not detected 0.05 mg/L 07/08/2019 **EPA 200.8** 1.3 7440-50-8 Lead 0.006 mg/L 0.001 07/08/2019 0.015 EPA 200.8 7439-92-1

RL

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Units

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47977

Work Order:

90700538_01

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County:

Berrien

//

Sample Point: Water System:

Collected By:

KITCHEN SINK FIRST DRAW Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

Source:

Site Code: Collector:

JPB22B1 Other

TYPE I

600

Date Collected:

06/25/2019

17:30

Date Received: Purpose:

07/03/2019

13:16 Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

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Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47978

Work Order:

90700538_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB22B5

Township/Well#/Section:

// Berrien Collector:

Other 06/25/2019

County:

Date Collected: Date Received:

07/03/2019

17:30 13:16

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	TION			RI	EGULATORY INI	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47979

Work Order:

90700539_01

System Name/Owner:

Township/Well#/Section:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

BENTON HARBOR COMPLIANCE 2019

RESIDENT

Berrien

//

County:

Water System:

Collected By:

Sample Point:

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

Collector: Other

06/27/2019 Date Collected: Date Received:

07/03/2019

600

TYPE I

JPB60B1

12:00 13:16

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.004	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147980

Work Order:

90700539_02

System Name/Owner: **BENTON HARBOR COMPLIANCE 2019** WSSN/Pool ID: 600 Collection Address: 200 EAST WALL ST, BENTON HARBOR Source: TYPE Collected By: RESIDENT Site Code: JPB60B5 Township/Well#/Section: // Collector: Other

County:BerrienDate Collected:06/27/201912:15Sample Point:KITCHEN SINK FIFTH DRAWDate Received:07/03/201913:16Water System:Public System Surface WaterPurpose:Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.021	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on: 7/9/2019 4:00:24PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47981

Work Order:

90700540_01

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Collected By:

Township/Well#/Section:

County:

Sample Point:

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

Water System:

BENTON HARBOR COMPLIANCE 2019

RESIDENT

Source: Site Code:

Collector: Date Collected:

Purpose:

WSSN/Pool ID:

06/24/2019 Date Received:

600

TYPE I

Other

JPB51B1

19:10 13:16

07/03/2019 Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.012	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level Not Detected: Not detected at or above the reporting limit (RL)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

mg/L: milligrams / Liter (ppm)



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47982

Work Order:

90700540_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

TYPE I

Collected By:

Source:

JPB51B5

Township/Well#/Section:

RESIDENT

Site Code:

Collector:

Other

19:10

County: Sample Point: Berrien KITCHEN SINK FIFTH DRAW Date Collected: Date Received:

06/24/2019 07/03/2019

13:16

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

Γ	ESTING INFORMA	TION			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.017	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147983

Work Order:

90700541_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB42B1 Other

Township/Well#/Section:

RESIDENT

Collector:

06/26/2019 12:45

County:

Berrien KITCHEN SINK FIRST DRAW Date Collected:
Date Received:

07/03/2019

13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMATION							
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#	
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8	
Lead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1	

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RECEIVED

JUI 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47984

Work Order:

90700541_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB42B5 Other

06/26/2019

Township/Well#/Section:

- .

Collector:
Date Collected:

12:45

Sample Point:

County:

Berrien

Date Received:

07/03/2019

13:22

Water System:

KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	TION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147985

Work Order:

90700542_01

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System:

Berrien

 $/\!/$

RESIDENT

KITCHEN SINK FIRST DRAW Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL STREET, BENTON HARBO

Source:

Site Code:

WSSN/Pool ID:

Collector:

Date Collected:

Date Received:

Purpose:

06/25/2019 07/03/2019

600

TYPE I

Other

JPB44B1

06:00 13:22

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on:



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47986

Work Order:

90700542_02

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System:

RESIDENT //

Public System Surface Water

Berrien

KITCHEN SINK FIFTH DRAW

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID:

Source:

Purpose:

Site Code:

Collector:

Date Collected: Date Received: 06/25/2019 07/03/2019

600

TYPEI

Other

JPB44B5

06:00 13:22

Routine Monitoring

T	ESTING INFORMAT	rion			RE	EGULATORY INFO	RMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47987

Work Order:

90700543_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB48B5

Collected By:

RESIDENT

Site Code: Collector:

Other

19:07

Township/Well#/Section: County:

//Berrien

Date Collected: KITCHEN SINK FIFTH DRAW Date Received: 06/27/2019 07/03/2019

13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

All the property of the second	TESTING INFORM	ATION			RI	EGULATORY INF	FORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED JUL 0.9 2019 MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47988

Work Order:

90700543_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPEI

Collected By:

RESIDENT

Site Code:

JPB48B1

Township/Well#/Section:

//

Collector:

Other 06/27/2019

County:

Berrien

Date Collected: Date Received:

19:07 13:22

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

07/03/2019 Routine Monitoring

TE	STING INFORMA	TION			RE	GULATORY INI	FORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.004	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47989

Work Order:

90700544_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

600 WSSN/Pool ID: TYPE I Source: JPB43B5 Site Code:

Collection Address: Collected By:

RESIDENT

Collector:

05:00

Township/Well#/Section:

County:

// Berrien

Date Collected: KITCHEN SINK FIFTH DRAW Date Received: 06/25/2019 07/03/2019

Other

13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47990

Work Order:

90700544_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: Source:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

TYPE I JPB43B1

Collected By:

RESIDENT

Site Code:

Township/Well#/Section:

// Berrien Collector:

Other 06/25/2019

County:

KITCHEN SINK FIRST DRAW

Date Collected: Date Received:

07/03/2019

05:00 13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
ppper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ad	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47991

Work Order:

90700545_01

System Name/Owner:

Collection Address:

RESIDENT

Township/Well#/Section:

County:

Sample Point:

Collected By:

Berrien

Water System:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID: 600 TYPE I

Source: Site Code:

Collector:

Purpose:

Other

Date Collected: Date Received: 06/24/2019 07/03/2019

JPB38B1

23:30 13:22

Routine Monitoring

	RI	REGULATORY INFORMATION					
Analyte Name	Result	Units	RL	Date	MCL/AL	Method	CAS#
Analyte Hame		1800 00 18 AVA (Tested			
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.007	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47992

Work Order: 90700545_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB38B5

Collected By: Township/Well#/Section: RESIDENT

Site Code: Collector:

Other

23:30

County:

Berrien

Date Collected:

06/24/2019 07/03/2019

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Date Received: Purpose:

13:22

Routine Monitoring

	TESTING INFORM	IATION			RE	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47993

Work Order:

90700546 01

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Collected By:

RESIDENT

Township/Well#/Section:

//

County:

Sample Point: Water System: Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

600

Source:

TYPE I JPB20B1

Site Code: Collector:

Purpose:

Other

Date Collected: Date Received: 06/25/2019

19:00

07/03/2019

13:22 Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47994

Work Order:

90700546 02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Collected By:

RESIDENT //

Township/Well#/Section:

County: Sample Point: Water System: Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

JPB20B5 Other

600

Collector: Date Collected:

TYPE I

06/25/2019

19:00

Date Received: Purpose:

07/03/2019 13:22 Routine Monitoring

	TESTING INFORMA	NOITA			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.012	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L147997

Work Order:

90700548_01

System Name/Owner:

Collection Address:

//

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County:

Sample Point:

Collected By:

Water System:

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

Source:

Site Code:

Other

600

TYPE I

JPB23B1

Date Collected: Date Received: 06/26/2019 07/03/2019 07:00 13:22

Purpose:

Collector:

Routine Monitoring

	TESTING INFORMA	ATION			RI	GULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	0.001	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47998

Work Order:

90700548_02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Collected By: Township/Well#/Section: //

County:

Berrien

Sample Point: KITCHEN SINK FIFTH DRAW Water System: Public System Surface Water

WSSN/Pool ID: 600

Source: Site Code:

TYPE I JPB23B5

Collector: Date Collected: Other 06/26/2019

07:00

Date Received:

07/03/2019

13:22

Purpose: Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI47999

Work Order:

90700549_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID:

600

Collection Address:

Source:

TYPE I JPB40B1

Collected By:

RESIDENT

Site Code:

Other

Township/Well#/Section:

//

Collector:

06/28/2019

Berrien

Date Collected: Date Received:

07/03/2019

08:00 13:22

Sample Point: Water System:

County:

KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.007	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148000

Work Order:

90700549_02

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System: **BENTON HARBOR COMPLIANCE 2019**

200 EAST WALL ST, BENTON HARBOR RESIDENT

//

KITCHEN SINK FIFTH DRAW

Berrien

Public System Surface Water

WSSN/Pool ID:

Source:

Site Code: Collector:

Other Date Collected:

Date Received:

Purpose:

06/28/2019 07/03/2019

600

TYPE

JPB40B5

08:00 13:22 Routine Monitoring

	TESTING INFORM	IATION			R	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.007	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48001

Work Order:

90700550_01

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

BENTON HARBOR COMPLIANCE 2019

600

TYPE I

Collected By:

RESIDENT

Source: Site Code:

WSSN/Pool ID:

JPB52B5

Township/Well#/Section: // Collector:

Other

Date Collected:

06/25/2019

12:00

County: Sample Point: Berrien

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead.	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: 1

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148002

Work Order:

90700550_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST,BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB52B1

Township/Well#/Section: County:

//

Collector:
Date Collected:

Other

Sample Point:

Berrien KITCHEN SINK FIRST DRAW

Date Received:

06/25/2019 07/03/2019

12:00 13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	IATION			RI	GULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: M

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148003

Work Order:

90700551_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB54B5 Other

Township/Well#/Section:

//

Collector:

06/26/2019

07:45

County:

Berrien

Date Collected: Date Received:

07/03/2019

13:22

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.011	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RECEIVED
JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48004

Work Order:

90700551_02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID: Source:

600

RESIDENT

TYPE I JPB54B1

Collected By:

//

Site Code:

Other

Township/Well#/Section: County:

Berrien

Collector: Date Collected:

07:45

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

06/26/2019 07/03/2019 13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.004	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148005

Work Order:

90700552_01

System Name/Owner:

Township/Well#/Section:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

RESIDENT

//

County:

Sample Point: Water System:

Collected By:

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

WSSN/Pool ID:

600

Source: Site Code:

Purpose:

TYPE I JPB58B1

Collector: Date Collected: Other 06/26/2019

06:30

Date Received:

07/03/2019

Routine Monitoring

13:22

Date	N REGULATORY INFORMATION		ATION	TESTING INFORMA	
Analyte Name Result Units RL Tested MCL/AL Method Co	Inits PI Date MCL/AL Method CA	RL			Analyte Name

0.05 mg/L Not detected Copper 7439-92-1 EPA 200.8 07/08/2019 0.015 0.004 mg/L 0.001 Lead The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED

JUL 0.9 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48006

Work Order:

90700552_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST,BENTON HARBOR

WSSN/Pool ID: 600

Collection Address: Collected By:

RESIDENT

Source: Site Code: TYPE I JPB58B5 Other

06/26/2019

Township/Well#/Section:

//

Collector:
Date Collected:

06:30

County: Sample Point: Berrien KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water Purpose:

urpose: Routine Monitoring

T	ESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148007

Work Order:

90700553_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB9B5

Collected By:

RESIDENT

Site Code: Collector:

Other

Township/Well#/Section:

// Berrien

Date Collected:

06/25/2019

06:15

County: Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead .	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > RECEIVED JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148008

Work Order:

90700553_02

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

RESIDENT

//

County:

Collected By:

Township/Well#/Section:

Sample Point: Water System: Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600 Source: TYPE

Site Code: Collector:

JPB9B1 Other

Date Collected:

06/25/2019

Date Received: 07/03/2019 06:15 13:22

Purpose:

Routine Monitoring

	TESTING INFORM	MATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48009

Work Order:

90700554_01

System Name/Owner:

er.

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB5B1 Other

Township/Well#/Section:

//

Collector:
Date Collected:

06/26/2019

20:00

County:

Berrien

W Date Received:

07/03/2019

13:22

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMATION							
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#	
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8	
_ead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RECEIVED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48010

Work Order:

90700554_02

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: **BENTON HARBOR COMPLIANCE 2019**

200 EAST WALL ST, BENTON HARBOR RESIDENT

//

Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

Source:

Site Code: Collector:

Date Received:

Purpose:

Date Collected:

Other 06/26/2019 07/03/2019

600

TYPE I

JPB5B5

20:00 13:22

Routine Monitoring

	TESTING INFORM	IATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.002	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48011

Work Order:

90700555 01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB32B5 Other

Township/Well#/Section:

 $/\!/$

Collector:

06/25/2019

09:45

County:

Berrien

Date Collected: Date Received:

07/03/2019

13:22

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.013	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on:

7/9/2019

4:00:24PM

Page 1 of 1



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48012

Work Order:

90700555_02

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

Sample Point:

County:

RESIDENT //

KITCHEN SINK FIRST DRAW

Water System:

Berrien

Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID:

600 Source: TYPE I

Site Code:

JPB32B1 Other

Collector: Date Collected:

06/25/2019 07/03/2019

09:45 13:22

Date Received: Purpose:

Routine Monitoring

	TESTING INFORM	IATION			RI	EGULATORY INI	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.021	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48013

Work Order:

90700556_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB11B5 Other

07/03/2019

Township/Well#/Section:

//

Collector:
Date Collected:

06/27/2019

County:

Berrien KITCHEN SINK FIFTH DRAW

Date Received:

. 13:20 13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	REGULATORY INFORMATION					
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.031	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

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JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48014

Work Order:

90700556 02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR WSSN/Pool ID: Source:

600 TYPE I

Collected By:

Site Code:

JPB11B1

Township/Well#/Section:

RESIDENT //

Berrien

Collector: Date Collected:

Other 06/27/2019

County: Sample Doint

KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:20 13:22

Sample Fullt.	
Water System:	

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	800.0	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit MCL: Maximum Contaminant Level

AL: Action Level Not Detected: Not detected at or above the reporting limit (RL) mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48015

Work Order:

90700557_01

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

IIBerrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

Collector:

Date Collected: Date Received: 06/25/2019 07/03/2019

07:07 13:22

Routine Monitoring Purpose:

600

TYPE I

JPB7B5

Other

	ESTING INFORMA	TION			REGULATORY INFORMATION			
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#	
•	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8	
Copper .ead	0.022	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1	

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUI 0.9 2019

RL: Reporting Limit

MCL: Maximum Contaminant Level

Al · Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48016

Work Order: 90700557_02

System Name/Owner: Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section: //

Berrien

Sample Point: Water System:

Collected By:

County:

KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID: 600

Source: Site Code:

Collector:

TYPE I JPB7B1 Other

Date Collected:

06/25/2019

07:07 13:22

Date Received: 07/03/2019 Purpose: Routine Monitoring

	TESTING INFORM	MATION			R	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
pper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ad 	0.035	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Mariene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48017

Work Order:

90700558_01

System Name/Owner:

Collection Address:

Collected By: Township/Well#/Section:

County:

Sample Point: Water System: BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

// Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

Source: Site Code:

Purpose:

Other Collector:

600

TYPE I

JPB39B1

Date Collected: Date Received: 06/26/2019 07/03/2019 Routine Monitoring

07:15 13:22

TESTING INFORI		MOLT			REGULATORY INFORMATION				
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#		

7440-50-8 EPA 200.8 1.3 07/08/2019 mg/L 0.05 Not detected Copper 7439-92-1 EPA 200.8 0.015 07/08/2019 0.001 0.023 mg/L Lead

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate. Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48018

Work Order:

90700558_02

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section: County:

Collected By:

//

Berrien

Sample Point: Water System:

Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

KITCHEN SINK FIFTH DRAW

WSSN/Pool ID:

600

Source: Site Code:

TYPE I JPB39B5

Collector:

Other

Date Collected:

06/26/2019

07:15

Date Received:

07/03/2019

13:22

Purpose:

Routine Monitoring

	TESTING INFORM	MATION	T		RI	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
pper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ad	0.008						

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

7/9/2019



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48019

Work Order:

90700559 01

System Name/Owner:

Township/Well#/Section:

Collected By:

Sample Point:

Water System:

County:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

600

Source: Site Code: TYPE I JPB36B1

Other

Collector:

WSSN/Pool ID:

Date Collected: Date Received: 06/26/2019

06:00

Berrien

 $/\!/$

RESIDENT

KITCHEN SINK FIFTH DRAW Public System Surface Water

07/03/2019

13:22

Purpose:

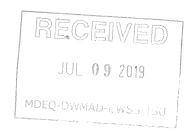
Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead ead	0.013	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48020

Work Order:

90700559_02

System Name/Owner:

Collection Address:

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Collected By: Township/Well#/Section:

//

County:

Sample Point:

Berrien

Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Source: Site Code: TYPE I JPB36B5

Collector:

Other

Date Collected:

06/26/2019

06:00

Date Received: Purpose:

07/03/2019

Routine Monitoring

13:22

TESTING INFORMATION					REGULATORY INFORMATION		
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper ·	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48021

Work Order:

90700560_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID:

600

Collection Address:

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB19B5

Township/Well#/Section:

Collector:

Other

County:

Berrien

Date Collected:

06/25/2019

16:00

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORMA	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48022

Work Order:

90700560_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I JPB19B1

Collected By:

RESIDENT

Site Code:

Township/Well#/Section:

//

Collector: Date Collected:

Other 06/25/2019

16:00

County: Sample Point: Berrien

KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
_ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48025

Work Order:

90700562_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB16B5

Township/Well#/Section:

Collector:

Other

County:

Berrien

Date Collected:

06/25/2019

08:00 13:22

Sample Point: Water System:

KITCHEN SINK FIFTH DRAW Public System Surface Water

Date Received: Purpose:

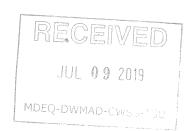
07/03/2019 Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID: L148026

> Work Order: 90700562_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

Site Code:

JPB16B1

Township/Well#/Section:

RESIDENT

Collector:

Other

08:00

County:

Berrien

//

Date Collected: Date Received: 06/25/2019 07/03/2019

13:22

Sample Point: Water System: KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFOR	REGULATORY INFORMATION					
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.005	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48027

Work Order:

90700563_01

System Name/Owner:

Township/Well#/Section:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

600 WSSN/Pool ID:

Source: Site Code: TYPE I JPB37B1

Collector:

Other

06/25/2019

Date Collected: Date Received:

07/03/2019

07:00 13:22

Sample Point: Water System:

Collected By:

County:

KITCHEN SINK FIRST DRAW Public System Surface Water

RESIDENT

Berrien

//

Purpose:

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Соррег	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

> > REGEINED

JUL 09 2019

MDEQ-DWMAD-CWSS-TSU

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48028

Work Order:

90700563_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR WSSN/Pool ID: 600

TYPE I

Collection Address: Collected By:

RESIDENT

Source: Site Code:

JPB37B5 Other

Township/Well#/Section:

Berrien

Collector: Date Collected:

06/25/2019 07:00

County:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019 13:22

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	Not detected	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48029

Work Order:

90700564_01

System Name/Owner:

Township/Well#/Section:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

600

Collection Address
Collected By:

200 EAST WALL ST,BENTON HARBOR RESIDENT

Source: Site Code: TYPE I JPB27B5

#ESID

Collector:

Other

1

Otner

Date Collected:

06/27/2019

13:30

Sample Point:

County:

Berrien

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	RI	REGULATORY INFORMATION					
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.059	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48030

Work Order:

90700564_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600

__

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB27B1

Township/Well#/Section:

Collector:

Other

County:

Berrien Date Collected:

06/27/2019 13:30

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water Date Received: Purpose:

07/03/2019 13 Routine Monitoring

13:22

	TESTING INFORM	MATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
.ead	0.029	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48035

Work Order:

90700567 01

System Name/Owner:

ei.

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST,BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB30B1 Other

Township/Well#/Section:

//

Collector:
Date Collected:

06/26/2019

10:30

County: Sample Point: Berrien KITCHEN SINK FIRST DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.006	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48036

Work Order:

90700567_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB30B5

Township/Well#/Section:

Collector:

Other

County:

Berrien

Date Collected:

06/26/2019

10:30

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

07/03/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY IN	FORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

By authority of PA 368 of 1978 as amended

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

7/9/2019 4:00:24PM Report Created on:



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48038

Work Order:

90700568_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

LIADDOD

WSSN/Pool ID: 60

600

Collection Address:

200 EAST WALL ST,BENTON HARBOR RESIDENT

Source:

TYPE I JPB41B1

Collected By:

//

Site Code: Collector:

Other

Township/Well#/Section: County:

" Berrien

Date Collected: 06
Date Received: 07

06/26/2019 07/03/2019 06:00 13:22

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

Routine Monitoring

	REGULATORY INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0:05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

MIKE O'MALLEY Report To:

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48037

Work Order:

90700568_01

System Name/Owner: **BENTON HARBOR COMPLIANCE 2019** WSSN/Pool ID: 600 Collection Address: TYPE I 200 EAST WALL ST, BENTON HARBOR Source: Collected By: RESIDENT Site Code: JPB41B5 Township/Well#/Section: Collector: Other

Date Collected: 06/26/2019 06:00 County: Berrien Sample Point: KITCHEN SINK FIFTH DRAW Date Received: 07/03/2019 13:22 Purpose: **Routine Monitoring** Water System: Public System Surface Water

	TESTING INFORM	ATION			R	EGULATORY INFO	RMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.003	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI48039

Work Order:

90700569_01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

JPB46B1

Township/Well#/Section:

//

Collector:

Other

County:

Berrien

Date Collected: Date Received: 06/25/2019

18:00 13:22

Sample Point: Water System:

KITCHEN SINK FIRST DRAW Public System Surface Water

Purpose:

07/03/2019 Routine Monitoring

	TESTING INFORM	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	0.10	m g /L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
ead	0.012	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L148040

Work Order:

18:00

90700569 02

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: // Berrien

RESIDENT

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

KITCHEN SINK FIFTH DRAW

Public System Surface Water

WSSN/Pool ID:

Source:

Purpose:

JPB46B5 Site Code: Other Collector:

Date Collected:

06/25/2019 07/03/2019 Date Received:

600

TYPE I

13:22

Routine Monitoring

	TESTING INFORM.	ATION			RI	EGULATORY INF	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	07/08/2019	1.3	EPA 200.8	7440-50-8
Lead	0.012	mg/L	0.001	07/08/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCI: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



STATE OF MICHIGAN

DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY



LANSING

January 16, 2020

VIA E-MAIL AND U.S. MAIL

Mr. Ellis Mitchell City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022 WSSN: 00600 County: Berrien

Supply: Benton Harbor

Dear Mr. Mitchell:

SUBJECT: Lead and Copper Monitoring - Action Level (AL) Exceedance

During the most recent round of lead and copper monitoring of drinking water taps, from July 1, 2019, through December 31, 2019, Benton Harbor community water supply's 90th percentile value exceeded the AL for lead as summarized below.

Contaminant	AL	MCLG*	90 th Percentile Value	Number of Sites Above AL	Range of Sample Results	Typical Source of Contaminant
Lead	15 parts per billion (ppb)	0	32 ppb	10	0 ppb – 72 ppb	Corrosion of household plumbing systems; Service lines that may contain lead; Erosion of natural deposits
Copper	1.3 parts per million (ppm)	1.3	0 ppm	0	.0 ppm – 0.1 ppm	Corrosion of household plumbing systems; Erosion of natural deposits

*MCLG: Maximum contaminant level goal means the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

An AL exceedance is not a violation, but it triggers other requirements under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). Requirements include water quality parameter (WQP) monitoring, source water monitoring, corrosion control treatment, and public education (PE). Please refer to the "Timetable of Upcoming Requirements" for your specific deadline for each of the following requirements.

Issue a Public Advisory (PA)

An amendment to Act 399 on March 29, 2017, requires a public water supply to issue a PA within three business days from the date of this letter to inform all persons served by the water system about the lead AL exceedance. It is the intent of the Department of Environment, Great Lakes, and Energy (EGLE) to work with you to develop the PE materials to distribute to your customers to fulfill both the PA and PE requirements simultaneously. A template has already been provided to you. If you plan to use broadcast media as your delivery method, please contact EGLE.

Mr. Ellis Mitchell Page 2 January 16, 2020

Deliver Consumer Notice of Lead and Copper Results

Thank you for completing this requirement timely.

Distribute PE

Sixty days from the date of this letter or sixty days after the end of the monitoring period that exceeded the AL, whichever is sooner, deliver PE materials to all consumers. As previously mentioned, it is your intent to develop and distribute the PE materials within three business days to fulfill both the PA and PE requirements simultaneously.

This material is intended to educate consumers about lead health effects, sources of lead, and steps to minimize exposure. Note that the PE material must include information about the following: the exceedance in your water supply, what you are doing to reduce lead levels, lead service lines in your distribution system, and the history of lead levels in your water supply. A template has already been provided to you.

A sample copy of the final PE material along with a PE distribution certification form must be submitted to EGLE no later than ten days after the PE is due. Repeat each year until the lead AL is no longer exceeded.

Conduct WQP Monitoring

Continue collecting one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap), and quarterly from ten locations in the distribution system. The WQP samples shall be analyzed for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature. Temperature and pH are field tests and should be completed at the time of sample collection.

If you use EGLE's laboratory, order bottles by calling 517-335-8184, or by downloading the form EQP 2301 *Bottle Order Form* from Michigan.gov/EGLELab. Click on Drinking Water. The tests are analyzed from one sample bottle per location. Request the analyses using the following test codes:

Test Code	Cost	Bottle Number	Test Description
CORR	\$51.00	33	Conductivity, Alkalinity, Phosphate, and Calcium
R	\$18.00	32,33	Chloride, Sulfate

Conduct Source Water Monitoring

Thank you for completing this requirement timely. You completed this requirement on March 16, 2019. You must repeat this sampling every third year until both lead and copper ALs are met during the entire three-year period.

Correct the Problem

Minimize lead and copper in drinking water by reducing corrosion of water pipes and household plumbing that contain lead and copper. This is your third AL exceedance. A letter regarding changes to your current corrosion control treatment will be sent under separate cover from Mr. Ernie Sarkipato, Surface Water Engineer, Engineering Unit, Environmental Health Section, Drinking Water and Environmental Health

Mr. Ellis Mitchell Page 3 January 16, 2020

Division (DWEHD); and Mr. Brandon Onan, Supervisor, Lead and Copper Unit, Community Water Supply Section, DWEHD.

Lead and Copper Monitoring

You have already increased your lead and copper monitoring. Please continue to collect samples from 60 sites between January 1 and June 30, 2020, and again between July 1 and December 31, 2020.

When selecting new sites, choose the highest Tier criteria available within the distribution system, giving Tier 1 sites first priority. Please see the enclosed tiering criteria to help inform your site selection process. If you have Tier 1 or Tier 2 sites, i.e. sites with a lead service line, compliance sampling will require that you collect a first-liter and fifth-liter sample from each sampling location.

Within 30 days of learning of the results from the samples, provide individual lead and copper tap results to people who receive water from sites that were sampled. Even if lead or copper was not detected, all monitoring, reporting, consumer notification, and EGLE certification requirements remain in effect.

Consumer Confidence Report (CCR)

Include this AL exceedance in your CCR, which is due to our office, your customers, and the local health department by July 1, 2020. You may use the table format from the first page of this letter.

Also, because the lead AL was exceeded, include the following health effects language:

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

What Happens Next?

If you can show that both lead and copper ALs are met in two consecutive six-month periods, then many of the requirements outlined in this letter will no longer apply.

Complete By	coming Requirements Requirement	Comments
Within three business days	Distribute a PA.	Distribute a PA to inform all persons served by the water supply of the lead AL exceedance. Distribution of the notice must be in a form and manner designed to fit the specific situation and must be reasonably calculated to reach all persons served by the public water supply.
Every two weeks	Collect WQP samples. (Entry Point)	Continue collecting one set of WQP samples every two weeks from the entry point to the distribution system, TP001 (Treatment Plant Tap). Analyze the samples for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature.
February 29, 2020	Perform PE activities including delivering PE materials to all consumers.	PE required activities are listed in enclosed template and checklist. Repeat every year until the lead AL is met in the most recent round of sampling.
March 10, 2020	Send EGLE certification of PE compliance along with a sample copy of the materials delivered.	Sample certification enclosed. Required within ten days of PE distribution.
Between January 1 and June 30, 2020	Collect samples from 60 sites in the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice for Community Water Supply (download form at Michigan.gov/LCR). Report due July 10, 2020.
Between January 1 and June 30, 2020	Collect WQP samples. (Distribution system)	Collect one set of WQP samples from ten locations in the distribution system <u>quarterly</u> . Analyze the samples for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature.
July 1, 2020	Report the 2019 AL exceedance in the CCR.	Specific lead health effects language must be included.
Between July 1 and December 31, 2020	Collect samples from 60 sites in the distribution system and have them analyzed for lead and copper.	Report the results to EGLE and deliver the consumer notice of individual lead and copper results using the downloadable Lead and Copper Report and Consumer Notice for Community Water Supply (download form at Michigan.gov/LCR). Report due January 10, 2021.
Between July 1 and December 31, 2020	Collect WQP samples. (Distribution system)	Collect one set of WQP samples from ten locations in the distribution system <u>quarterly</u> . Analyze the samples for pH, alkalinity, calcium, conductivity, orthophosphate, chloride, sulfate, and temperature.
September 29, 2020	For the January through June 2020 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download the Lead and Copper Report and Consumer Notice for Community Water Supply in Word or PDF format from Michigan.gov/LCR.
March 31, 2021	For the July through December 2020 monitoring, send EGLE certification of Consumer Notice of Lead and Copper results compliance along with a sample copy of the notice delivered.	Download Lead and Copper Report and Consumer Notice of Lead and Copper Results Certificate in Word or PDF format from Michigan.gov/LCR.
March 31, 2022	Collect one lead and copper sample from your entry point to the distribution system.	Repeat every third year until both ALs are met for the whole three-year period.

Mr. Ellis Mitchell Page 5 January 16, 2020

We recognize that the Lead and Copper Rule is complex and may be confusing. We will continue to offer assistance in implementing these regulations. If you have any questions, please contact us at BoltJ@Michigan.gov; OnanB@Michigan.gov; or at the phone numbers provided below.

Sincerely,

Jeni Bolt, Environmental Quality Specialist

Lead and Copper Unit

Drinking Water and Environmental

Health Division 517-331-5161

Brandon Onan, Supervisor Lead and Copper Unit

Drinking Water and Environmental

Health Division 616-307-6736

Enclosures (PA Checklist, PE Checklist, WQP Report Form, Tier Criteria)

cc/enc: Mr. Mike O'Malley, City of Benton Harbor

Ms. Nicki Britten, Berrien County Health Department

Mr. Nick Margaritis, Berrien County Health Department

Mr. Steve Crider, Michigan Department of Health and Human Services

Mr. Mike Bolf, EGLE

Mr. Ernie Sarkipato, EGLE

Mr. Jeremy Klein, EGLE



1. Supply Name:

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY DRINKING WATER AND ENVIRONMENTAL HEALTH DIVISION

LEAD AND COPPER REPORT AND CONSUMER NOTICE FOR COMMUNITY WATER SUPPLY FORM A – SUPPLIES WITH LEAD SERVICE LINES

Issued under authority of the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), MCL 325.1001 et seq., and the Administrative Rules.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within ten days after the end of the monitoring period. This form may be used to meet this requirement. Form instructions are available on pages 8 - 10. Submit the information to the appropriate Michigan Department of Environment, Great Lakes, and Energy (EGLE) district office.

Benton Harbor Water

	2. Co	ounty:	Berrien			3. WSS	N:	0600	
	4. Pc	pulation:	9,639	5. Mon	itoring Period:	From: 7/1/2019	To:	12/31/2019	
	6. Mi	inimum # of S	amples Requi	red:		7. # of Samples Tal	(en:	40	
	8. Na	ame of Certifie	ed Laboratory	8	to MDEQ the re	st to Eurofins Eaton Ar	nalytic	cal	_
9. SAMPL	_E CRI	TERIA:		-		32			
This	form					lead and copper sai plies should use Fo			WITH
Yes	No								
Ø		Are some or	all samples f	rom sites	WITH lead serv	rice lines?			
		If no sites se	erved by a lea	d service	e line, STOP and	use Form B.	_	r more informa	
An Tiel Sta	٠ ١ ١	Tier 1 si If insuffice If insuffice If no Tie	tes must be u cient Tier 1 sit cient Tier 2 sit r 1, 2, or 3 site	sed unle es availa es, then es are av	able, then Tier 2 Tier 3 sites mus vailable, sites mu	er 1 sites available. sites must be used.	"Ti	e <i>Instructions</i> i er and Sample tegory" at the document.	•
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Name: Title:	O'Ma	_	or water N Charge		Signature: / d	W/M/8 269) 363-05351	Date:	1/9/	20
		ental Assistan)-662-9278	ce Center	Mic	higan.gov/EGLE Page 1 of 10				EQP5942a Rev. 5/2019

Use additional sheets as needed. Sheet _____ of 03

Water Supply Name: Benton WSSN: 0800 Harbor

Lith ONLY Numbers are

NPb 16* JPb7	NPb 17* JPb8	NPb 5* JPb32	NPb 4* JPb29	NPb 13* JPb51	NPb12* JPb50	NPb 10* JPb47	CCNPb 28* JPb48	OctPb12* JPb22	JPb 39*	JPb 27*	JPb 4*	JPb 29*	OctPb14		Past EGLE Code	* was sampled before; and	Sample ocation
12/10/2019	12/9/2019	12/2/2019	12/2/2019	12/9/2019	12/9/2019	12/4/2019	11/29/2019	11/7/2019	12/17/2019	12/10/2019	12/10/2019	12/2/2019	11/12/2019			Sample Date	
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A	A	A	Þ	А	Α	A	Α	A	A	A	A	A	⊳			(see below) ²	_
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		(L,C,G,P) °	Plumbing	Building
L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR			(L*,C,G,P) ³	Service Line				
7	*	7	*	*	7	7	7	~	7		*	×	*			(大,B)*	Тар Туре
25	23	10	22	8.6	38	72	3.1	4.4	10	33	9.2	0	0		Lead ug/L		
1.6	53	15	3.4	4	3.6	7.8	F ²	2,5	8.6	5.1	15	2.4	8.6		Copper mg/L	1. Liter Sample	- - - - -
4512573	4512575	4512553	4512551	4512563	4512565	4512571	4512929	4488796	4523031	4516488	4516476	4512569	4488794	Number	Lab Sample	je je	
18	9,4	12	32	5.3	24	39	3.1 1	3.9	7.8	21	6.3	0	0		Lead ug/L	<u> </u> රාූ	
0	2.1	1.8	5.1	2.1	1.6	11	11	3,6	3.4	2.8	2.5	2.1	00		Copper mg/L	5" Liter Sample	-
4512574	4512576	4512554	4512552	4512563	4512566	4512572	4512550	4488797	4523032	4516489	4516477	4512570	4488795	Number	Lab Sample	ble	

SCT 5	SCT 3	SCT 1	CCNPb 5	OctPb 11	CCNPb25	CCNPb 29	CCNPb 34	CCNPb 7	OctPb10	OctPb9	OctPb6* JPb60	OctPb5* JPb20	OctPb3	OctPb2* JPb14	OctPb1* JPb1	Past EGLE Code	Sample Location * was sampled before: and	Table Ps
12/12/2019	12/12/2019	12/12/2019	12/11/2019	12/2/2019	12/8/2019	12/3/2019	12/1/2019	12/4/2019	10/25/2019	10/29/2019	10/29/2019	10/26/2019	11/1/2019	10/29/2019	11/1/2019		Sample Date	2 0 5 3
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A	A	A	Α	Α	A	Α	A	Α	A	A	A	A	Þ	A	A		Category (see below) ²	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	(L,C,G,P) °	Building Plumbing	
L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR	L or PSLR		Service Line (L*,C,G,P) ³	
7	×		×			×	*	X	X		×	×	*	×	×	ediri denda caracanguna, menerala	Tap Type (K,B) ⁴	Se
0	0	0	3.6	0	9.3	8.4	0	3,4	2	2	2	4	4	7	0	Lead Copper ug/L mg/L	<u> </u>	Semple Codes
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0	0	0	2.2	0	1.8	1.6	0	1.9	0	2	ம	4	ω	7	0	Lead (ug/L	ರ್ಷ	LI xxxxx
6	2	1.4	4	1.5	1.5	7.3	8.5	1.8	0	0	0	0	0	0	0	Copper mg/L	5 th Liter Sample	+> 65
4516485	4516483	4516481	4546489	4512568	4512562	4512560	4512558	4512556	LI74927	0 LI74929	0 1174913	L174915	LI74910	LI74908	0 LI74911	Lab Sample Number	ple	

4523042	2	30	4523041	3.6	19	7	L or PSLR	N/A	A		12/21/2019	EPDPb 4
4523034	1.6	0	4523033	4,9	0	*	L or PSLR	N/A	Þ		12/20/2019	EPDPb 1
4523030	1.6	11	4523029	6.7	18	~	L or PSLR	N/A	Α	-	12/18/2019	EPDPb 9
4523028	2.2	40	4523027	4.8	19		L or PSLR	N/A	Α		12/18/2019	EPDPb 8
4523026	4.8	19	4523025	1.2	2,3	*	L or PSLR	N/A	A	-	12/17/2019	TGPb 1
4523024	1.6	0	4523023	4	5.6	*	L or PSLR	N/A	>	->	12/16/2019	CCNPb 17
4596493	2.9	14	4516492	18	3.7	*	L or PSLR	N/A	A		12/15/2019	CCNPb 16
4516491	2.8	11	4516490	4.1	4.9	*	L or PSLR	N/A	Α		12/10/2019	CCNPb 1
4516487	2	0	4516486	28	0	~	L or PSLR	N/A	Α		12/15/2019	CCNPb 31
Lab Sample Number	Copper mg/L	Lead ug/L	Lab Sample Number	Copper mg/L	ug/L			(L,C,G,P) ~				Past EGLE Code
nple	5" Liter Sample	165	le le	Luter sample	1-	(K,B)4	(L*,C,G,P) ³	Plumbing	(see .below) ²	(1,2,3,OT)	Sample Date	* was sampled before; and
				¥† - † - 1	1.	Тар Туре	Service Line	Building	Category	Tier		Sample I ocation

MI 0600 Benton Herbor Level Copper Report Certification / 1/3 lot

EGLE

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A

CONSUMER NOTICE OF LEAD AND COPPER RESULTS REQUIREMENTS AND CERTIFICATION

Each community water supply must deliver a Consumer Notice of Lead and Copper Results (Consumer Notice) to the occupants at each location sampled within 30 days of learning the sample results as required under R 325.10410(5) of the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. Failure to deliver the Consumer Notice to each location on time will result in a reporting violation.

Instructions:

- A. Use the Consumer Notice Form A template for sites with lead service lines or Consumer Notice Form B template for sites without lead service lines. See the examples on Page 10 to document results from both sites with a lead service line and without a lead service line.
- B. Complete one Consumer Notice for each home or building that was sampled. MAKE SURE UNITS ARE CORRECT BEFORE DISTRIBUTING TO CONSUMERS.

Note: 1 mg/L = 1 ppm = 1,000 ppb

Example: 0.002 mg/L = 0.002 ppm = 2 ppb

- C. Mail or hand deliver each Consumer Notice to the corresponding home or building sampled.
- D. Water supplies have 90 days after the end of the monitoring period to submit a sample copy of the Consumer Notice along with a signed certification that notices have been distributed as required under R 325.10710d(f)(3) to the appropriate EGLE district office. When possible, EGLE encourages water supplies to send the sample Consumer Notice and certification (page 4 of this document) along with the Lead and Copper Report (pages 1 and 2 of this document), which is due within ten days after the end of the monitoring period. Please COMPLETE all forms accurately to avoid resubmittal.

Certification:

I hereby certify that the Consumer Notice of Lead and Copper Results (Consumer Notice) has been provided to persons served at each of the taps that were tested, including all the following information:

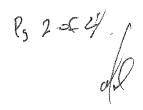
- Delivery was by mail, hand delivery, or another method approved by EGLE.
- Delivery was within 30 days of knowing the result.
- Consumer Notice includes required content:
 - o The results of lead and copper tap monitoring for the site that was sampled.
 - o An explanation of the health effects of lead and copper.
 - o Steps consumers can take to reduce exposure to lead in drinking water.
 - o Contact information for the public water supply.
 - o The maximum contaminant level goal and the action level for lead and copper with the definitions explaining each.

definitions explaining each.	
Please initial each line verifying that each requirement was completed:	
A Consumer Notice was sent to persons served at each of the taps that were tested	d.
pelivery was by mail, hand delivery, or another method approved by EGLE.	
Each Consumer Notice was delivered to the resident within 30 days of knowing the	results.
Each Consumer Notice included the required content as stated above.	
A sample copy of∤a Consumer Notice sent to a resident is attached.	
Benton Harbor Witer Operator IN Change	1/10/20
	Date

LEAD AND COPPER REPORT AND CONSUMER NOTICE - FORM A



EQP5942a



CONSUMER NOTICE OF LEAD AND COPPER RESULTS IN DRINKING WATER at a SITE WITH A LEAD SERVICE LINE OR A PORTION OF OR REPLACED BY A COPPER LINE

Thank you for helping Benton Harbor get the Lead Out. The City Water Department exceeded the Lead Action Level in September, 2018. Many things had to happen, specifically, The City was required to go back to the Original Sampling Date (1991) and collect 2 sets of 60 samples in 2019. This October to December was our 2nd set and these. Thank you for your help and here are your testing results.

We will be required to repeat the process by June and by December in 2020. We are hopeful that the State will reduce the sampling requirements from 60 to 40 residential locations.

If you would like to participate in 2020's sampling, please call Toni at the Water Plant (269) 447-1945, please be patient with our new phones. If you do not get an answer, please leave a message.

If you have sampled before and the results look different, that is likely due to the new Lead Corrosion Treatment we started using March 26, 2019. This treatment is specifically designed to isolate and hold to the pipe wall; the Lead and other metals from the tap water in order to eliminate those heavy metal contaminates from your home's drinking water. This corrosion treatment has been working 9 months and has had a sporatic effect in the tests results this sampling period. Scientists suggest it will take 18 months to see the full effect. The good news, is that the Corrosion Factor calculation we used in the laboratory with your help has show a steady improvement in the NON Corrosive realm. It appears that we are on the right path and as we put more in every day for as long as it takes to physically remove All Lead in the System. Removal will be expensive and will take a long time to raise all the money needed.

Water Supply Name: Benton Harbor Water WSSN#: MI0600; Berrien County, MI.

Name: JPb22 Address:

Your Home's Code: OctPb12

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below. Your home is served by a known lead service line, a presumed Lead Service line or was served at 1 time by lead; but replaced with Copper. This means that the pipe that brings water to your home contains lead. The first liter sample represents the water you are likely from internal plumbing materials that slough off when turning on the tap, and the fifth liter sample likely represents the water in the service line.

Contaminant	Action Level	Maximum Contaminant Level Goal	Your 1 st Liter Result	Your 5 th Liter Result
Lead (ppb)	15	0	4.4	3.9
Copper (ppb)	1300	1300	2.5	3.6

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

ppb: Parts per billion or micrograms per liter.

ND: Not detected.

To reduce exposure to lead and copper in drinking water:

• Run your water before drinking. The more time water has been sitting in your home's pipes, the more lead it may contain. Therefore, if your water has not been used for several hours, run the water before using it for drinking or cooking. This flushes lead-containing water from the pipes. Additional flushing may be required

for homes that have been vacant or have a longer service line.

o If you do not have a lead service line, run the water for 30 seconds to two minutes, or until it becomes cold or reaches a steady temperature.

- o If you do have a lead service line, run the water for at least five minutes to flush water from both the interior building plumbing and the lead service line.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot water tap. Lead and copper dissolves more easily in hot water.
- Do not boil water to remove lead and copper. Boiling water will not reduce lead and copper levels.
 - Consider using a filter to reduce lead in drinking water. Read the package to be sure the filter is NSF 53 certified to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for more information.
- Consider purchasing bottled water. The bottled water standard for lead is 5 ppb.
- Identify older plumbing fixtures that likely contain lead. Older faucets, fittings, and valves sold before 2014 may contain higher levels of lead, even if marked "lead-free." Faucets, fittings, and valves sold after January 2014 are required to meet a more restrictive "lead-free" definition but may still contain up to 0.25 percent lead.
 - Clean your aerator. As part of routine maintenance, the aerator should be removed at least every six months to rinse out any debris that may include particulate lead.
 - **Get your child tested**. Contact your local health department or healthcare provider to find out how you can get your child tested for lead if you are concerned about exposure.

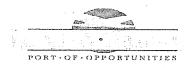
Lead can cause serious health and developmental problems. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development. Although other sources of lead exposure exist, such as lead paint, and lead contaminated dust, your water supply is contacting you to reduce your risk of exposure to lead in drinking water. If you have questions about other sources of lead exposure, please contact your local health department.

<u>Copper</u> is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

Although the primary sources of lead exposure for most children are from deteriorating lead-based paint, lead- contaminated dust, and lead-contaminated soil, the United States Environmental Protection Agency (U.S. EPA) estimates that 20 percent or more of human exposure to lead may come from drinking water. Infants who consume mostly mixed formula can receive 40 percent to 60 percent of their exposure to lead from drinking water.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's website at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

For more information on copper, visit the United States Center for Disease Control website at www.atsdr.cdc.gov/index.html, or contact your health provider.



City of Benton Harbor 200 East Wall Street Benton Harbor, Michigan 49022

Benton Harbor Water Department Report of Lead and Copper and Additional Testing Resu

To:

; At: Code: OctPb12* JPb22

Report Date: 1/10/2020

Thank you for participating in our 2nd group of 60 testing sites for Lead and Copper. The samples you returned to us have been analyzed for Our new Corrosion Protection system by our laboratory operators. That was sample bottle #4.

Some of you did not receive a bottle 4 and will not have results in this table other than summary data below. Our water staff was overwhelmed by the flurry of trying to find 60 homes to help us. So, some of you did not get that 4th bottle with a cap.

In House	Testing	For Water	Quality	Parameters	June 2019	Lead Results
OPP Residual mg/L Target is set at 1.5 mg/L	Chloride results mg/L	Sulfate results mg/L	Chloride to Sulfate Ratio	A ratio < 1.0 is regarded as Not Corrosive.	To Compare June 2019 previous 1 st Draw Lead Result ppb	To Compare June 2019 previous 2 nd Draw Lead Result ppb
1.39	25.5	32	0.80		3	2
Avg OPP result	Max OPP result	Min OPP result	AVG Chloride Result	MAX Chloride Result	MIN Chloride Result	
1.30	1.51	1.01	23.16	26.00	20.00	
AVG Sulfate Result	Max Sulfate Result	Min Sulfate Result	AVG CSR value	MAX CSR value	MIN CSR value	
32.25	36.00	28.00	0.72	0.90	0.60	

OPP is our corrosion treatment it stands for Orthopolyphosphate. It is specific for Lead material and has a recommended rate of 1.5 mg/L. Michigan Water Quality Experts consider OPP as an excellent Lead corrosion inhibitor.

Additional Information is available on the City Web Site at bhoity.us. Remember the Code Only is listed on the web site.

Your Code is: OctPb12* JPb22

You can also visit the Berrien County Health Department's web site at www.bchdmi.org > Lead-Drinking-Water

Any questions you can call or email Mike O'Malley, Water Spt. at (269) 363-0575 and momalley@cityofbentonharbormi.gov Mike is hard to reach, email is readily available.

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USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL STREET **BENTON HARBOR MI 49022** Sample ID:

L174907

Work Order:

91100584_01

System Name/Owner:

Collection Address:

Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: **BENTON HARBOR COMPLIANCE 2019**

200 EAST WALL STREET, BENTON HARBO

RESIDENT

//

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

Source:

Site Code:

Collector:

Date Collected: Date Received:

Other 10/29/2019 11/05/2019

600

TYPE I

OCTPB 2-51

08:45 13:22

Routine Monitoring Purpose:

T	ESTING INFORMATI	ION			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
₋ead	0.007	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

> 200 EAST WALL STREET BENTON HARBOR MI 49022

Sample ID: LI74908

Work Order: 91100584 02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600

Collection Address:

200 EAST WALL STREET, BENTON HARBO

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

OCTPB2-S 5

Township/Well#/Section: //

Collector:

Other

County:

Berrien

Date Collected: Date Received: 10/29/2019 09:15 11/05/2019 13:22

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

TE	ESTING INFORMATIO	ON			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
Lead	0.007	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL STREET **BENTON HARBOR MI 49022** Sample ID:

L174909

Work Order:

91100585_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 200 EAST WALL STREET, BENTON HARBO WSSN/Pool ID:

600

Collection Address:

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

OCTPB 3-S1

Township/Well#/Section:

//

Collector:

Other

County:

Berrien

Date Collected:

11/01/2019

09:15

Sample Point: Water System: KITCHEN SINK FIRST DRAW Public System Surface Water

Date Received: Purpose:

11/05/2019 13:22 Routine Monitoring

TES	TESTING INFORMATION						
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
Lead	0.004	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To: MIKE O'MALLEY

200 EAST WALL STREET

Sample ID:

LI74910

BENTON HARBOR MI 49022

Work Order:

91100585_02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

600

Collection Address:

200 EAST WALL STREET, BENTON HARBO

WSSN/Pool ID: Source:

TYPE I

Collected By:

RESIDENT

Site Code:

OCTPB 3-S5

Township/Well#/Section:

//

Collector:

Other 11/01/2019

09:15

County:

Berrien

Date Collected: Date Received:

11/05/2019

13:22

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

	ESTING INFORMATION	NC			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1,3	EPA 200.8	7440-50-8
.ead	0.003	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL STREET BENTON HARBOR MI 49022 Sample ID:

LI74911

Work Order:

91100586_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL STREET, BENTON HARBO

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

Other

Township/Well#/Section:

//

Collector:

11/01/2019

OCTPB13-5

County:

Berrien

Date Collected:

06:00

Sample Point:

KITCHEN SINK FIFTH DRAW

Date Received:

11/05/2019

13:22

Water System:

Public System Surface Water

Purpose:

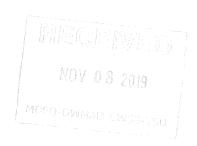
Routine Monitoring

T	ESTING INFORMATIO)N			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
_ead	Not detected	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

11/8/2019 4:13:12PM

Page 1 of 1



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

MIKE O'MALLEY Report To:

200 EAST WALL STREET

Sample ID:

Work Order:

LI74912

BENTON HARBOR MI 49022

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID: 600 91100586 02

Collection Address:

200 EAST WALL STREET, BENTON HARBO

TYPE I

Collected By:

Source: Site Code:

OCTPB 1-51

Township/Well#/Section:

RESIDENT

Other

County:

// Berrien Collector: Date Collected:

11/01/2019

Sample Point:

KITCHEN SINK FIRST DRAW

Date Received:

11/05/2019

13:22

Water System:

Public System Surface Water

Purpose:

Routine Monitoring

The state of the s	ESTING INFORMATION	N			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
_ead 	Not detected	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI74913

Work Order:

91100587 01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

WSSN/Pool ID: Source:

600

Collection Address:

TYPE I **OCTPB6-55**

Collected By:

RESIDENT

Site Code:

Other 10/29/2019

11/05/2019

Township/Well#/Section:

11

Collector: Date Collected:

08:00

County:

Berrien

Date Received:

13:22

Sample Point: Water System: KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

T	REGULATORY INFORMATION						
Analyte Name	ESTING INFORMATION Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
Lead	0.005	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI74914

Work Order:

91100587_02

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Collected By:

RESIDENT //

Township/Well#/Section: County:

Sample Point:

Water System:

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID: 600

Source:

Site Code:

TYPE I OCTPB6 S1

Collector: Date Collected:

Other

10/29/2019 11/05/2019

08:00 13:22

Date Received: Purpose:

Routine Monitoring

	ESTING INFORMATI	ON			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
_ead	0.002	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174915

Work Order:

91100588_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

RESIDENT

Collection Address: Collected By:

Township/Well#/Section:

County:

Sample Point: Water System: . //

Berrien

KITCHEN SINK FIFTH DRAW Public System Surface Water

WSSN/Pool ID:

600 TYPE I

Source: Site Code:

OCTPB5 S5

Collector:

Other

Date Collected: Date Received: 10/26/2019 11/05/2019

07:00 13:22

Purpose:

Routine Monitoring

	ESTING INFORMATION	ON .			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
_ead	0.004	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI74916

Work Order:

91100588_02

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Collected By: Township/Well#/Section:

RESIDENT //

County:

Sample Point:

Water System:

Berrien

KITCHEN SINK FIRST DRAW Public System Surface Water

WSSN/Pool ID:

Source:

600 TYPE I

Site Code: Collector:

Purpose:

Other

Date Collected:

10/26/2019

07:00

Date Received:

11/05/2019

OCTPB 5 S-1

13:22

Routine Monitoring

T	ESTING INFORMAT	ION			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
ead	0.004	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

CFU: Colony Forming Unit CAS: Chemical Abstract Service Laboratory Contact: Marlene Kane

By authority of PA 368 of 1978 as amended

Report Created on:

11/8/2019 4:13:12PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174917

Work Order:

91100589_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Site Code:

OCTPB 13 S5

Collected By: Township/Well#/Section:

RESIDENT

Collector:

Other

. // Berrien Date Collected:

10/28/2019

06:30

County:

Date Received:

11/05/2019

13:23

Sample Point: Water System: KITCHEN SINK Public System Surface Water

Purpose:

Routine Monitoring

Sample Comment

L174917

Sample was received at the laboratory for test code CCUB and was not accepted for testing, due to low sample volume submitted. Container must be filled to the base of

the neck, per sample collection instructions.

- 10	STING INFORMATI			Date		4	CAS#
Analyte Name	Result	Units	RL	Tested	MCL/AL	Method	CA5 #

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

LI74918

Work Order:

91100589_02

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

RESIDENT

Township/Well#/Section:

County:

Sample Point: Water System:

Collected By:

Berrien

//

KITCHEN SINK

Public System Surface Water

WSSN/Pool ID:

600 Source: TYPE I

Site Code:

OCTPB 13 S1

Collector:

Other

Date Collected: 10/28/2019

06:30

Date Received: Purpose:

11/05/2019 Routine Monitoring

13:23

Sample Comment

LI74918

Sample could not be analyzed for test code CCUB, due to sample LI74917 not being

tested.

Analyte Name	Result	Units	RL	Date	MCL/AL	Mothod	0.50
, many to manie	, , count	Jines	KL	Tested	MCL/AL	Method	CAS#

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below.

> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174928

Work Order:

91100592_02

System Name/Owner:

:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

OCTPB 10 S1 Other

Township/Well#/Section:

//

Collector:
Date Collected:

15:00

County:

Berrien

Date Received:

10/25/2019 11/05/2019

13:25

Sample Point: Water System:

KITCHEN SINK FIFTH DRAW Public System Surface Water

Purpose:

Routine Monitoring

TE	STING INFORMATIO	ON			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
ead	0.002	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

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Berrien County 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623

RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt) MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174927

Work Order:

91100592_01

System Name/Owner:

Collection Address:

BENTON HARBOR COMPLIANCE 2019 200 EAST WALL ST, BENTON HARBOR

Collected By: Township/Well#/Section:

RESIDENT

//

County:

Sample Point: Water System:

Berrien

KITCHEN SINK FIRST DRAW

Public System Surface Water

WSSN/Pool ID:

Source:

600 TYPE I OCTPB10 S5

Site Code: Collector:

Other

Date Collected:

10/25/2019

15:00

Date Received:

11/05/2019

13:25

Purpose:

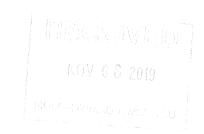
Routine Monitoring

T	ESTING INFORMATIO	NC			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
Lead	Not detected	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184 FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174929

Work Order:

91100593_01

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

200 EAST WALL ST, BENTON HARBOR

Source:

600

Collection Address:

WSSN/Pool ID:

TYPE I OCTPB 9 S5

Collected By:

RESIDENT

Site Code:

Other 10/29/2019

11/05/2019

Township/Well#/Section:

//

Collector: Date Collected:

05:15

County:

Berrien KITCHEN SINK FIFTH DRAW

Date Received:

13:25

Sample Point: Water System:

Public System Surface Water

Purpose:

Routine Monitoring

T	ESTING INFORMATION	ON			RE	GULATORY INFO	ORMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
Copper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
ead.	0.001	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

The analyses performed by the EGLE Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

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> **Berrien County** 2149 E. Napier Ave. Benton Harbor, MI 49022 269 927-5623



RL: Reporting Limit

MCL: Maximum Contaminant Level

AL: Action Level

Not Detected: Not detected at or above the reporting limit (RL)

mg/L: milligrams / Liter (ppm)

ng/L: nanograms / Liter (ppt) MPN: Most Probable Number

4:13:12PM



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270 Lansing, MI 48909 TEL: (517) 335-8184

FAX: (517) 335-8562

Official Laboratory Report

Report To:

MIKE O'MALLEY

200 EAST WALL ST

BENTON HARBOR MI 49022

Sample ID:

L174930

Work Order:

91100593 02

System Name/Owner:

BENTON HARBOR COMPLIANCE 2019

WSSN/Pool ID:

600

Collection Address:

200 EAST WALL ST, BENTON HARBOR

Source:

TYPE I

Collected By:

RESIDENT

Site Code:

OCTPB S1

Township/Well#/Section:

//

Collector:

Other

County:

Berrien

Date Collected:

10/29/2019 05:15

Sample Point: Water System: KITCHEN SINK FIRST DRAW Public System Surface Water

Date Received: Purpose:

11/05/2019 Routine Monitoring

13:25

The state of the s	ESTING INFORMAT	ION			RE	GULATORY INFO	DRMATION
Analyte Name	Result	Units	RL	Date Tested	MCL/AL	Method	CAS#
opper	Not detected	mg/L	0.05	11/06/2019	1.3	EPA 200.8	7440-50-8
ead	0.002	mg/L	0.001	11/06/2019	0.015	EPA 200.8	7439-92-1

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AL: Action Level

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mg/L: milligrams / Liter (ppm) ng/L: nanograms / Liter (ppt)

MPN: Most Probable Number



LABORATORY REPORT



If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

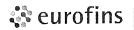
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STATE CERTIFICATION LIST

State	Certification	State	Certification	
Alabama	40700	Missouri	880	
Alaska	IN00035	Montana	CERT0026	
Arizona	AZ0432	Nebraska	NE-OS-05-04	
Arkansas	IN00035	Nevada	IN00035	
California	2920	New Hampshire*	2124	
Colorado	IN00035	New Jersey*	IN598	
Colorado Radiochemistry	IN00035	New Mexico	IN00035	
Connecticut	PH-0132	New York*	11398	
Delaware	IN035	North Carolina	18700	
Florida*	E87775	North Dakota	R-035	
Georgia	929	Ohio	87775	
Hawaii	IN035	Oklahoma	D9508	
Idaho	IN00035	Oregon (Primary AB)*	4074	
Illinois*	200001	Pennsylvania*	68-00466	
Illinois Microbiology	17767	Puerto Rico	IN00035	
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343	
Indiana Chemistry	C-71-01	South Carolina	95005	
Indiana Microbiology	M-76-07	South Dakota	IN00035	
lowa	098	Tennessee	TN02973	
Kansas*	E-10233	Texas*	T104704187-18-12	
Kentucky	90056	Texas/TCEQ	TX207	
Louisiana*	LA014	Utah*	IN00035	
Maine	IN00035	Vermont	VT-8775	
Maryland	209	Virginia*	460275	
Massachusetts	M-IN035	Washington	C837	
Michigan	9926	West Virginia	9927 C	
Minnesota*	018-999-338	Wisconsin	999766900	
Mississippi	IN035	Wyoming	IN035	
EPA	IN00035			

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client:

City of Benton Harbor

Michael O'Malley Attn:

200 East Wall Street

Benton Harbor, MI 49002

Report:

471354

Priority:

Standard Written

Status:

Final

PWS ID:

MI0600

	S	ample Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4488794	Oct Pb 14 Sample 1	200.8	11/11/19 05:00	Client	11/18/19 16:20
4488795	Oct Pb 14 Sample 5	200.8	11/11/19 05:00	Client	11/18/19 16:20
4488796	Oct Pb 12 Sample 1	200.8	11/10/19 06:00	Client	11/18/19 16:20
4488797	Oct Pb 12 Sample 5	200.8	11/10/19 06:00	Client	11/18/19 16:20

Report Summary

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Title

11/22/2019

Date

Authorized Signature

Client Name:

City of Benton Harbor

Report #:

471354

Client Name:

City of Benton Harbor

Report #: 471354

Sampling Point: Oct Pb 14 Sample 1

PWS ID: MI0600

			Le	ad and (Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300	1.0	8.6	ug/L		11/20/19 19:24	4488794
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		11/20/19 19:24	4488794

Sampling Point: Oct Pb 14 Sample 5

PWS ID: MI0600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	8.0	ug/L		11/20/19 19:28	4488795	
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		11/20/19 19:28	4488795	

Sampling Point: Oct Pb 12 Sample 1

PWS ID: MI0600

Lead and Copper										
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		11/20/19 19:31	4488796	
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L		11/20/19 19:31	4488796	

Sampling Point: Oct Pb 12 Sample 5

PWS ID: MI0600

			Le	ad and (Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300	1.0	3.6	ug/L		11/20/19 19:34	4488797
7439-92-1	Lead	200.8	15 !	1.0	3.9	ug/L		11/20/19 19:34	4488797

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************		
Rea Limit Type:	MOI	CMCI		Ĺ
	MCL	SINCL.	ΔI	
			71	į.
Cumbalı		£		
ayında:	· •	Λ	[	
}	ś		;	

City of Benton Harbor Report #: 471354

Client Name:

#### Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD) -** is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS) / Surrogate Analyte (SUR) -** is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

e eurofins

Eaton Analytical

387103

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch # 471 754

3 3 3 35 3 URNAROUND TIME 3 3 3 3 3 3 NATRIX CODE ō 3 4 OF CONTAINERS CHLORINATED X 2 12-D Page ğ YES K **'** XX Y SAMPLE REMARKS STATE (sample origin) | PROJECT NAME K.R Marter 282 SOURCE WATER 不开 CHAIN OF CUSTODY RECORD TEST NAME POPULATION SERVED アログ エテれ ナイチズ 500 B 0600 Ş A Cfor Thorn とはない À. en incler SAMPLING SITE Det PBIASA, 16 いるのです Oct Pb Parple Jut Plane S. , 2 DBO たるで Stage 2080 21 9 D +20 SAMPLER (Signature) 845 COMPLIANCE 700 Wile O'Millay Movedley EctyAbanthon Histor Mily Sou AM PM ¥ 八 V X 12.0 COLLECTION A TIME 2 146.8 Shaded area for EEA use only Ĭ 3 DATE ww.EurofinsUS.com/Eaton LAB Number G REPORT TO: 2 0 Ξ 12 9 5 7

The state of the s	LAB RESERVES THE RIGHT TO RETURN UNIQSED PORTIONS OF HON-AQUEOUS SAMPLES TO CLIENT	- nowited the Cu wolfen	Am Mista			HOLNS PROJECTE (Check one):	C Upen Receipt				<del></del>	be subject to additional charges.	OELO CERTAIN CHARLES Dates on as
	DATE TIME LABRE	LAB COMMENTS	DATE TIME (W///			$\mathcal{N}_{\mathcal{S}/\mathcal{S}} = \mathcal{N}_{\mathcal{S}/\mathcal{S}} = \mathcal{N}_{\mathcal{S}/\mathcal{S}}$	MAN PM		N* = Inmediata Verbal: (3 working days) 100%	W" "Immediate Written: (3 working days) 125%		STAT* = Less than 48 hours CALL	
	DATE TIME RECEIVED BY:(Signature)	11/11/10 T	DATE TIME RECEIVED BY:(Signature)	AM PM	DATE TIME RECEIVED FOR LABORATORY BY:	Amostra	AM PM CYCHOLOGO	TURN-AROUND TIME (TAT) - SURCHARGES	SW = Standard Witten; (15 working days) 0%	RV" = Rush Verbalt (5 working days) 50%	RW" = Rush Written: (5 working days). 75%		* Please call, expedited service not available for all testing
	KELINGUISHEU BY:(Signature)		RELINQUISHED BY:(Signature)		RELINQUISHED BY:(Signature)			MATRIX CODES:	DW-DRINKING WATER	GW-GROUND WATER	EW-EXPOSURE WATER SW-SURFACE WATER	PW-POOL WATER	WW-WASTE WATER

Sample analysis will be provided according to the standard EEAWater Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA.

61/81/1 nd

# LABORATORY REPORT

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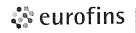
JAM 63 prop

# STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



## Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

## Laboratory Report

Client: City of Benton Harbor

Attn:

Michael O'Malley 200 East Wall Street

Benton Harbor, MI 49002

Report:

473564

Priority:

Standard Written

Status:

Final

PWS ID:

MI600

Sample Information										
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time					
4512549	CCNPb 28 Sample 1	200.8	11/30/19 06:05	Client	12/12/19 11:15					
4512550	CCNPb 28 Sample 5	200.8	11/30/19 06:05	Client	12/12/19 11:15					
4512551	NPb 4 Sample 1	200.8	12/03/19 07:00	Client	12/12/19 11:15					
4512552	NPb 4 Sample 5	200.8	12/03/19 07:00	Client	12/12/19 11:15					
4512553	NPb 5 Sample 1	200.8	12/03/19 13:50	Client	12/12/19 11:15					
	NPb 5 Sample 5	200.8	12/03/19 13:50	Client	12/12/19 11:15					
4512554	CCNPb 7 Sample 1	200.8	12/05/19 17:30	Client	12/12/19 11:15					
4512555	CCNPb 7 Sample 5	200.8	12/05/19 17:30	Client	12/12/19 11:15					
4512556	CCNPb 34 Sample 1	200.8	12/02/19 14:50	Client	12/12/19 11:15					
4512557	CCNPb 34 Sample 5	200.8	12/02/19 14:50	Client	12/12/19 11:15					
4512558	CCNPb 29 Sample 1	200.8	12/04/19 04:30	Client	12/12/19 11:15					
4512559	CCNPb 29 Sample 5	200.8	12/04/19 04:30	Client	12/12/19 11:15					
4512560	CONPb 25 Sample 1	200.8	12/09/19 07:15	Client	12/12/19 11:15					
4512561	CCNPb 25 Sample 5	200.8	12/09/19 07:15	Client	12/12/19 11:15					
4512562	NPb 13 Sample 1	200.8	12/09/19 08:00	Client	12/12/19 11:15					
4512563	NPb 13 Sample 1	200.8	12/09/19 08:00	Client	12/12/19 11:15					
4512564		200.8	12/10/19 10:00	Client	12/12/19 11:15					
4512565	NPb 12 Sample 1	200.8	12/10/19 10:00	Client	12/12/19 11:15					
4512566	NPb 12 Sample 5	200.8	12/03/19 07:03	Client	12/12/19 11:15					
4512567	OctPb 11 Sample 1	200.8	12/03/19 07:03	Client	12/12/19 11:15					
4512568	OctPb 11 Sample 5	200.8	12/03/19 04:35	Client	12/12/19 11:15					
4512569	JPb 29 Sample 1	200.8	12/03/19 04:35	Client	12/12/19 11:15					
4512570	JPb 29 Sample 5	200.8	12/05/19 07:50	Client	12/12/19 11:15					
4512571	NPb 10 Sample 1		12/05/19 07:50	Client	12/12/19 11:15					
4512572	NPb 10 Sample 5	200.8	12/11/19 09:15	Client	12/12/19 11:15					
4512573	NPb 16 Sample 1	200.8	12/11/19 09:15	Client	12/12/19 11:15					
4512574	NPb 16 Sample 5	200.8		Client	12/12/19 11:15					
4512575	NPb 17 Sample 1	200.8	12/10/19 10:30	Client	12/12/19 11:15					
4512576	NPb 17 Sample 5	200.8	12/10/19 10:30	CHEHL	12/12/13 11.10					

Note: Sample containers were provided by the client.

**Report Summary** 

Client Name:

City of Benton Harbor

Report #: 473564

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature

Client Name:

City of Benton Harbor

Report #:

473564

Title

12/19/2019

Date

Report #: 473564

Sampling Point: CCNPb 28 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte			Reg MRL†		Units	Preparation Date	Analyzed	EEA ID#
ID#		200,8	1300 !	1.0	11	ug/L		12/16/19 16:13	4512549
7440-50-8	Copper	200.8	15 !	1.0	3.1	ug/L		12/16/19 16:13	4512549
7439-92-1	Lead	200.0			£		: hamanananananananananananananananananana	V	

Sampling Point: CCNPb 28 Sample 5

PWS ID: MI600

			Le	ad and (	Copper	400			
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#	7.20	200.8	1300	1.0	11	ug/L	·	12/16/19 16:15	4512550
7440-50-8 7439-92-1	Copper Lead	200.8	15 !	1.0	3.1	ug/L		12/16/19 16:15	4512550

Sampling Point: NPb 4 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200.8	1300 !	1.0	3.4	ug/L		12/16/19 16:22	4512551
7440-50-8 7439-92-1	Copper Lead	200.8	15 !	1.0	22	ug/L		12/16/19 16:22	4512551

Sampling Point: NPb 4 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte	Method			Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200.8	1300 !	1.0	5.1	ug/L		12/16/19 16:24	4512552
7440-50-8 7439-92-1	Copper Lead	200.8	15!	1.0	32	ug/L		12/16/19 16:24	4512552

Sampling Point: NPb 5 Sample 1

	Lead and Copper										
Analyte	Analyte	Method	Reg Limit	- 11 11		Units	Preparation Date	Analyzed	EEA ID#		
ID# 7440-50-8	Copper	200.8	1300 !	1.0	15	ug/L		12/16/19 16:26	4512553		
7440-50-6	Lead	200,8	15 !	1.0	10	ug/L		12/16/19 16:26	4512553		

Report #: 473564

Sampling Point: NPb 5 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		12/16/19 16:28	
7439-92-1	Lead	200.8	15 !	1.0	12	ug/L		12/16/19 16:28	4512554 4512554

Sampling Point: CCNPb 7 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	12	ug/L		12/16/19 16:30	4512555
7439-92-1	Lead	200.8	15!	1.0	3.4	ug/L		12/16/19 16:30	4512555

Sampling Point: CCNPb 7 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
-	Copper	200.8	1300 !	1.0	1.8	ug/L		12/16/19 16:33	4512556
7439-92-1	Lead	200.8	15 !	1.0	1.9	ug/L		12/16/19 16:33	4512556

Sampling Point: CCNPb 34 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200,8	1300 !	1.0	7.2	ug/L		12/16/19 16:35	4512557
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/16/19 16:35	4512557

Sampling Point: CCNPb 34 Sample 5

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA
7440-50-8	Copper	200.8	1300 !	1.0	8.5	ug/L		12/16/19 16:37	ID# 4512558
7439-92-1	Lead	200,8	15 !	1.0	< 1.0	ug/L		12/16/19 16:37	4512558

Report #: 473564

Sampling Point: CCNPb 29 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200,8	1300 !	1.0	8.4	ug/L		12/16/19 16:44	4512559
7440-50-8	Copper	New York of the Control of the Contr			16	ug/L		12/16/19 16:44	4512559
7439-92-1	Lead	200.8	15 !	1.0	16	ug/L		12/10/10 10.44	

Sampling Point: CCNPb 29 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte	Method	Reg Limit	Reg MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200,8	1300 !	1.0	1.6	ug/L		12/16/19 16:46	4512560
7440-50-8 7439-92-1	Copper	200.8	15 !	1.0	7,3	ug/L		12/16/19 16:46	4512560

Sampling Point: CCNPb 25 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	- II		Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#	0	200.8	1300 !	1.0	3.3	ug/L		12/16/19 16:52	4512561
7440-50-8 7439-92-1	Copper Lead	200.8	15 !	1.0	9.3	ug/L		12/16/19 16:52	4512561

Sampling Point: CCNPb 25 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200,8	1300 !	1.0	1.5	ug/L		12/16/19 16:55	4512562
7440-50-8 7439-92-1	Copper Lead	200.8	15 !	1.0	1.8	ug/L		12/16/19 16:55	4512562

Sampling Point: NPb 13 Sample 1

			Le	ad and G	Copper				
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#		200,8	1300 !	1.0	4.0	ug/L		12/16/19 16:57	4512563
7440-50-8 7439-92-1	Copper Lead	200.8	15	1.0	8.6	ug/L		12/16/19 16:57	4512563

Report #: 473564

Sámpling Point: NPb 13 Sample 5

PWS ID: MI600

			Le	ad and	Copper			The second	
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		12/16/19 16:59	4512564
7439-92-1	Lead	200,8	15!	1.0	5.3	ug/L		12/16/19 16:59	4512564

Sampling Point: NPb 12 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	3.6	ug/L		12/16/19 17:01	4512565
7439-92-1	Lead	200.8	15 !	1.0	38	ug/L		12/16/19 17:01	4512565

Sampling Point: NPb 12 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300	1.0	1.6	ug/L		12/16/19 17:03	4512566
7439-92-1	Lead	200.8	15	1.0	24	ug/L		12/16/19 17:03	4512566

Sampling Point: OctPb 11 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		12/16/19 17:06	4512567
7439-92-1	Lead	200,8	15 !	1.0	< 1.0	ug/L		12/16/19 17:06	4512567

Sampling Point: OctPb 11 Sample 5

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8		200,8	1300 !	1.0	1.5	ug/L		12/16/19 17:08	4512568
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		12/16/19 17:08	4512568

Report #: 473564

Sampling Point: JPb 29 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.4	ug/L		12/16/19 17:19	4512569
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/16/19 17:19	4512569

Sampling Point: JPb 29 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		12/16/19 17:21	<b>4</b> 512570
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/16/19 17:21	4512570

Sampling Point: NPb 10 Sample 1

PWS ID: MI600

			Le	ad and (	Copper		945 F. W.		
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Connor	200.8	1300	1.0	7.8	ug/L		12/16/19 17:28	4512571
7440-50-8 7439-92-1	Copper Lead	200.8	15 !	1.0	72	ug/L		12/16/19 17:28	<b>4</b> 512571

Sampling Point: NPb 10 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	11	ug/L		12/16/19 17:30	4512572
7439-92-1	Lead	200.8	15 !	1.0	39	ug/L		12/16/19 17:30	4512572

Sampling Point: NPb 16 Sample 1

			Le	ad and (	Copper				
Analyte	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
ID#	Copper	200,8	1300	1.0	1.6	ug/L		12/16/19 17:32	4512573
7440-50-8 7439-92-1	Lead	200,8	15!	1.0	25	ug/L	Egypte jingiran orahin sayan gayan kanan ana ana	12/16/19 17:32	4512573

Client Name:

City of Benton Harbor

Report #: 473564

Sampling Point: NPb 16 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		12/16/19 17:34	4512574
7439-92-1	Lead	200.8	15!	1.0	18	ug/L		12/16/19 17:34	4512574

Sampling Point: NPb 17 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	53	ug/L		12/16/19 17:36	4512575
7439-92-1	Lead	200.8	15!	1.0	23	ug/L		12/16/19 17:36	4512575

Sampling Point: NPb 17 Sample 5

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	5.1	ug/L		12/16/19 17:39	4512576
7439-92-1	Lead	200.8	15	1.0	9.4	ug/L		12/16/19 17:39	4512576

[†] EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Pog Limit Tunos			
Rea Limit Type:			
Rea Limit Type:	MCL	SMCL	
Symbol			
Symbol:			
Santa and a santa			

Report #: 473564

Client Name: City of Benton Harbor

#### Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD) -** is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

Sant Start Occasion orderes Survey Survey

Order # 356845 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch # 1725/24

MS 35 88 3 8 SW SW TURNAROUND TIME Š SK S NS. S S 3W かっている Siv NS. SW As MS MS NS. SS S/S MS SW ΝŠ ---WS. SW **ADDO XINTAM** Samples OHVA and were presented Lab reserves the Right to return unused portions of non-aqueous samples to client ŏ # OF CONTAINERS N cq 4 Ġ. Ņ N CHLORINATED 9 *** S04694 P O 4 Bonus show NPd 10 so what appr paadt Page YES C Upon Receipt × × × ĸ ж × Lead & Copper 1st and 6th Draw for 2019 end of Compliance SAMPLE REMARKS PROJECT NAME 1st & 5th draw 1st & 5th draw 1st & 5th draw 1st & 5th draw 560 1st & 5th draw STATE (sample origin) オがの 270 572 ののの がん 0000 00000 となる のかり SOURCE WATER Ambient Lake Michigan CONDITIONS UPON RECEIPT (check one); Samole 4004 Ξ loed: Wet/Blue CHAIN OF CUSTODY RECORD ead and Copper sample 1 sample 5 Lead and Copper sample 1 sample 5 ead and Copper sample 1 sample 5 TEST NAME Lead and Copper sample 1 sample 5 -ead and Copper sample 1 sample 5 ead and Copper sample 1 sample 5 Lead and Copper sample 1 sample 5 ead and Copper sample 1 sample 5 Lead and Copper sample 1 sample 5 Lead and Copper sample 1 sample 5 ead and Copper sample 1 sample 5 lend and Copper sample 1 sample 5 and Copper sample 1 sample 5 pad-and Copper sample 1 sample 5 POPULATION SERVED LAB COMMENTS PWS ID # 9,639 600 \$000 \$000 AM PM TIME AM PM TIME ¥ DATE かるだ DATE Ş W. 7 9 B SAMPLING SITE Yes RECEIVED FOR LABORATORY BY: RECEIVED BY: (Signature) RECEIVED BY: (Signature) 0 SAMPLER (Signature) COMPLIANCE 0 CCNPb 34 CCNPb 29 CCNPb 25 CCNPb 28 CCNPb 7 NPb 13 OctPb 11 NPb 10 NPb 16 NPb12 JPb 29 NPb 17 TURN-AROUND TIME (TAT) NPDS NPb 4 ă TIME 10 AM) PM 17.72 FIG. 15 AM PM TIME W AM 10/10 COLLECTION TIME 10:00 10:30 DATE DATE 7:00 1:50 7:15 6:03 5:30 2:50 4:30 8:00 7:03 4:35 7:50 9:15 EEA use only Ŋ Mike O'Malley momalley@cityolbenlonharbormi.gov BILL TO; Mike O'Malley momalley@cityofbentonharbormi.gov 11/30/19 12/03/19 12/03/19 12/05/19 12/04/19 12/09/19 DATE 12/02/19 12/09/19 12/10/19 12/11/19 12/03/19 12/03/19 12/05/19 12/10/19 Shaded area for BY: (Signature) RELINQUISHED BY (Signature) Signature MATRIX CODES. 888 240 ののの のしの 00 Š 100 h LAB Number Samole 6 I S S S **OUBHE** REPORT TO RELING RELIN 0 to ch Ç to 11

STAT's Less than 48 hours

EWEXPOSURE WATER

FOR SWATER

FOR SWATER

FOR STAT's Less than 48 hours

OG-LO-F0435 Issue 6.0 Effective Dates. Extension witing by Castomer are deemed material alterations and are rejected unless expressly agreed to in writing by DEEA.

100%

IV = Immediate Verbal: (3 working days)

ô

SW = Standard Written: (15 working days)

DW-DRINKING WATER
WEREAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WAJER
SWS-SURF-GE WATER
PW-POOL WATER
WW-WASTE WATER

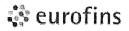


## LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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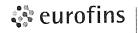


## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



### Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

## Laboratory Report

Client: City

City of Benton Harbor

Attn:

Michael O'Malley 200 East Wall Street

Benton Harbor, MI 49002

Report:

473903

Priority:

Standard Written

Status:

Final

PWS ID:

MI600

EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4516476	JPb 4 Sample 1	200.8	12/11/19 07:15	Client	12/17/19 12:35
4516477	JPb 4 Sample 5	200.8	12/11/19 07:15	Client	12/17/19 12:35
4516477	CCNPb 5 Sample 1	200.8	12/12/19 06:30	Client	12/17/19 12:38
4516479	CCNPb 5 Sample 5	200.8	12/12/19 06:30	Client	12/17/19 12:35
4516480	SCT 1 Sample 1	200.8	12/13/19 07:00	Client	12/17/19 12:3
4516481	SCT 1 Sample 5	200.8	12/13/19 07:00	Client	12/17/19 12:3
4516482	SCT 3 Sample 1	200.8	12/13/19 05:30	Client	12/17/19 12:3
	SCT 3 Sample 5	200.8	12/13/19 05:30	Client	12/17/19 12:3
4516483	SCT 5 Sample 1	200.8	12/13/19 06:00	Client	12/17/19 12:3
4516484	SCT 5 Sample 5	200.8	12/13/19 06:00	Client	12/17/19 12:3
4516485	CCNPb 31 Sample 1	200.8	12/16/19 08:00	Client	12/17/19 12:3
4516486	CCNPb 31 Sample 5	200.8	12/16/19 08:00	Client	12/17/19 12:3
4516487	JPb 27 Sample 1	200.8	12/11/19 07:00	Client	12/17/19 12:3
4516488	JPb 27 Sample 1	200.8	12/11/19 07:00	Client	12/17/19 12:3
4516489		200.8	12/11/19 06:00	Client	12/17/19 12:3
4516490	CCNPb 1 Sample 1	200.8	12/11/19 06:00	Client	12/17/19 12:3
4516491	CCNPb 1 Sample 5		12/16/19 08:05	Client	12/17/19 12:3
4516492	CCNPb 16 Sample 1	200.8			12/17/19 12:3
4516493	CCNPb 16 Sample 5	200.8	12/16/19 08:05	Client	12/1//13 12.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Report #: 473903

Authorized Signature
Client Name: City of

City of Benton Harbor

Report #:

473903

Title

Date

12/26/2019

Report #: 473903

Sampling Point: JPb 4 Sample 1

PWS ID: MI600

	Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	15	ug/L		12/19/19 17:14	4516476				
7439-92-1	Lead	200.8	15 !	1.0	9.2	ug/L		12/19/19 17:14	4516476				

Sampling Point: JPb 4 Sample 5

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
	Copper	200.8	1300 !	1.0	2.5	ug/L		12/19/19 17:16	4516477			
7439-92-1	Lead	200.8	15 !	1.0	6.3	ug/L ·		12/19/19 17:16	4516477			

Sampling Point: CCNPb 5 Sample 1

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200,8	1300 !	1.0	2.5	ug/L		12/19/19 17:20	4516478			
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		12/19/19 17:20	4516478			

Sampling Point: CCNPb 5 Sample 5

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	4.0	ug/L		12/19/19 17:22	4516479			
7439-92-1	Lead	200.8	15 !	1.0	2,2	ug/L		12/19/19 17:22	4516479			

Sampling Point: SCT 1 Sample 1

	Lead and Copper												
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300	1.0	3.4	ug/L		12/19/19 17:26	<b>4</b> 516480				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/19/19 17:26	4516480				

Report #: 473903

Sampling Point: SCT 1 Sample 5

PWS ID: MI600

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		12/19/19 17:28	4516481			
7439-92-1	Lead	200.8	15!	1.0	< 1,0	ug/L		12/19/19 17:28	4516481			

Sampling Point: SCT 3 Sample 1

PWS ID: MI600

Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	3.0	ug/L		12/19/19 17:30	4516482		
7439-92-1	Lead	200,8	15 !	1.0	< 1.0	ug/L		12/19/19 17:30	4516482		

Sampling Point: SCT 3 Sample 5

PWS ID: MI600

	Lead and Copper										
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		12/19/19 17:32	4516483		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/19/19 17:32	4516483		

Sampling Point: SCT 5 Sample 1

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.1	ug/L		12/19/19 17:33	4516484			
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		12/19/19 17:33	4516484			

Sampling Point: SCT 5 Sample 5

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300	1.0	6.0	ug/L		12/19/19 17:35	4516485			
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		12/19/19 17:35	4516485			

Report #: 473903

Sampling Point: CCNPb 31 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		12/19/19 17:36	4516486
7439-92-1	Lead	200.8	15 !	1.0	< 1,0	ug/L		12/19/19 17:36	4516486

Sampling Point: CCNPb 31 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		12/19/19 17:38	4516487
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		12/19/19 17:38	4516487

Sampling Point: JPb 27 Sample 1

PWS ID: MI600

Lead and Copper									
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	5.1	ug/L		12/22/19 21:31	4516488
7439-92-1	Lead	200.8	15 !	1.0	33	ug/L		12/22/19 21:31	4516488

Sampling Point: JPb 27 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.8	ug/L		12/22/19 21:40	4516489
7439-92-1	Lead	200.8	15 !	1.0	21	ug/L		12/22/19 21:40	4516489

Sampling Point: CCNPb 1 Sample 1

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	4.1	ug/L		12/22/19 21:43	4516490
7439-92-1	Lead	200,8	15 !	1.0	4.9	ug/L		12/22/19 21:43	4516490

Report #: 473903

Sampling Point: CCNPb 1 Sample 5

PWS ID: MI600

	Lead and Copper									
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	2.8	ug/L		12/22/19 21:46	4516491	
7439-92-1	Lead	200.8	15!	1.0	11	ug/L	#A VE FA	12/22/19 21:46	4516491	

Sampling Point: CCNPb 16 Sample 1

PWS ID: MI600

Lead and Copper									
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	18	ug/L		12/22/19 21:49	4516492
7439-92-1	Lead	200.8	15 !	1.0	3.7	ug/L		12/22/19 21:49	4516492

Sampling Point: CCNPb 16 Sample 5

PWS ID: MI600

	Lead and Copper									
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#	
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		12/22/19 21:52	4516493	
7439-92-1	Lead	200.8	15!	1.0	14	ug/L		12/22/19 21:52	4516493	

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL	
Symbol:	*	۸ .	!	

Report #: 473903

Client Name: City of Benton Harbor

#### Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples, LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

on Local Designation

Shaded area for EEA use only

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Order # 387458 Batch # 473903

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Page

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

CHAIN OF CUSTODY RECORD

** Š 38 8,8 Š TURNAROUND TIME 38 \$ Š 3 MS. BW MS A.S 3 ME MS 36.00 3.8 **BUOD XINTAM** LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AGLEOUS SAMPLES TO CLIENT # OF CONTAINERS N N CHLORINATED 2 S04896 å YES Lead and Copper Testing 3rd to EEA for end of 2019 SAMPLE REMARKS PROJECT NAME 1st and 5th draw STATE (sample origin) SOURCE WATER Lake Michigan ead & Copper 1st & 5th draw 2 samples each code ead & Copper 1st & 5th draw 2 samples each code ead & Copper 1st & 6th draw 2 samples each code sad & Copper 1st & 5th draw 2 samples each code ead & Copper 1st & 5th draw 2 samples each code Lead & Copper 1st & 5th draw 2 samples each code Lead & Copper 1st & 5th draw 2 samples each code ead & Copper 1st & 5th draw 2 samples each code ead & Copper 1st & 5th draw 2 samples each code Z **TEST NAME** POPULATION SERVED LAB COMMENTS PWS ID # 9,639 009 ジジ TIME TIME 存 から 次さ めた るなら かいま とよって DATE DATE でくせ みろ西 はてめ No 483 SAMPLING SITE 787 187 487 かかれ 167 Yes カプロ 763 2000 ユのマュレ RECEIVED BY: (Signature) RECEIVED BY: (Signature) SAMPLER (Signature) COMPLIANCE CCNPb 18 CCNPb 31 CCNPb 5 CCNPb 1 JPb 27 SCT3 SCT 5 SCT 1 JPb 4 P AM COLLECTION 27 7:15 6:30 8:00 8 5:30 6:00 9:00 7:00 8:05 M Mike O'Malley, momalley@clitycfbentonharborni,gov BILL TO: Mike O'Malley, momelley@cityofbentonharbormi.gov 12/12/19 12/11/19 12/13/19 12/13/19 12/13/19 12/16/19 12/11/19 12/11/19 12/16/19 DATE HSHED (Y. (Signature) (Signature) 7 0 7 がって 25 Z 08 H 482 trSh 4016.476 20 1 1 公路でより LAB Number REPORT TO RELINOU Ġ, 9 55 # rc) ω *** 7

06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20 N/A Samples received unsumpanted with Yese than 48 hours heiding fine remaining (1197 to subject 10 scottlerat charges. *C Upon Receipt Ambient CONDITIONS UPON RECEIPT (check one) load. WetfBlue CAL 3 100% 125% W =immediate Written: (3 working days) IV = immediate Verbal: (3 working days) AM PM STAT" = Less than 48 hours SP = Weekend, Holiday DATE Pleaso call, expedited service not available for all teating RECEIVED FOR LABORATORY BY Š 20% 75% SW = Standard Writter: (15 working days) TURN-AROUND TIME (TAT) RW = Rush Written: (5 working days) RV = Rush Verbal: (5 working days) 12.12 AM PM AM PM HAIL DATE DW-DRINKING WATER
WA-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER RELINQUISHED BY:(Signature) MATRIX CODES

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by

Page 10 of 11



#### **PURCHASE REQUISITION**

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PURCHASING AGENT:

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## **PURCHASING AGENT**

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- V	USED		DESCRIPTION	ESTIMATE	QUOTED	EXTENSION		
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TERM:	APPROVAL SIGNATURE:		
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#### LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at  $(800)\ 332-4345\ or\ (574)\ 233-4777.$ 

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#### STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



#### **Eaton Analytical**

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

#### Laboratory Report

Client:

Attn:

City of Benton Harbor

Michael O'Malley

200 East Wall Street Benton Harbor, MI 49002 Report:

474452

Priority:

Standard Written

Status:

Final

PWS ID:

MI600

	Sample Information										
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time						
4523023	CCNPb 17 Sample 1	200.8	12/17/19 08:05	Client	12/23/19 10:35						
4523024	CCNPb 17 Sample 5	200.8	12/17/19 08:05	Client	12/23/19 10:35						
4523025	TGPb 1 Sample 1	200.8	12/18/19 06:39	Client	12/23/19 10:35						
4523026	TGPb 1 Sample 5	200.8	12/18/19 06:39	Client	12/23/19 10:35						
4523027	EPDPb 8 Sample 1	200.8	12/19/19 06:40	Client	12/23/19 10:35						
4523028	EPDPb 8 Sample 5	200.8	12/19/19 06:40	Client	12/23/19 10:35						
4523029	EPDPb 9 Sample 1	200.8	12/19/19 06:10	Client	12/23/19 10:35						
4523030	EPDPb 9 Sample 5	200.8	12/19/19 06:10	Client	12/23/19 10:35						
4523031	JPb 39 Sample 1	200.8	12/18/19 06:15	Client	12/23/19 10:35						
4523032	JPb 39 Sample 5	200.8	12/18/19 06:15	Client	12/23/19 10:35						
4523033	EPDPb 1 Sample 1	200.8	12/20/19 06:15	Client	12/23/19 10:35						
4523034	EPDPb 1 Sample 5	200.8	12/20/19 06:15	Client	12/23/19 10:35						
4523041	EPDPb 4 Sample 1	200.8	12/21/19 08:00	Client	12/23/19 10:35						
4523042	EPDPb 4 Sample 5	200.8	12/21/19 08:00	Client	12/23/19 10:35						

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

**Report Summary** 

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Pat Muff at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Authorized Signature

Title

01/06/2020

Date

Client Name:

City of Benton Harbor

Report #:

474452

Client Name:

City of Benton Harbor

Report #: 474452

Sampling Point: CCNPb 17 Sample 1

PWS ID: MI600

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	4.0	ug/L		01/03/20 11:46	4523023			
7439-92-1	Lead	200.8	15 !	1.0	5.6	ug/L		01/03/20 11:46	4523023			

Sampling Point: CCNPb 17 Sample 5

PWS ID: MI600

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		01/03/20 11:47	4523024			
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		01/03/20 11:47	4523024			

Sampling Point: TGPb 1 Sample 1

PWS ID: MI600

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper ·	200.8	1300 !	1.0	1.2	ug/L		01/03/20 11:49	4523025			
7439-92-1	Lead	200.8	15 !	1.0	2.3	ug/L		01/03/20 11:49	4523025			

Sampling Point: TGPb 1 Sample 5

PWS ID: MI600

	Lead and Copper											
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		01/03/20 11:51	4523026			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		01/03/20 11:51	4523026			

Sampling Point: EPDPb 8 Sample 1

PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300	1.0	4.8	ug/L		01/03/20 12:01	4523027			
7439-92-1	Lead	200.8	15!	1.0	19	ug/L		01/03/20 12:01	4523027			

Client Name: City of Benton Harbor

Report #: 474452

Sampling Point: EPDPb 8 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.2	ug/L		01/03/20 12:03	4523028
7439-92-1	Lead	200,8	15!	1.0	40	ug/L		01/03/20 12:03	4523028

Sampling Point: EPDPb 9 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	6.7	ug/L		01/03/20 12:09	4523029
7439-92-1	Lead	200.8	15!	1.0	18	ug/L		01/03/20 12:09	4523029

Sampling Point: EPDPb 9 Sample 5

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		01/03/20 12:12	4523030
7439-92-1	Lead	200.8	15	1.0	11	ug/L		01/03/20 12:12	4523030

Sampling Point: JPb 39 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	8.6	ug/L		01/03/20 12:14	4523031
7439-92-1	Lead	200.8	15 !	1.0	10	ug/L		01/03/20 12:14	4523031

Sampling Point: JPb 39 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	3.4	ug/L		01/03/20 12:16	4523032
7439-92-1	Lead	200.8	15!	1.0	7.8	ug/L	AL 18 AL	01/03/20 12:16	4523032

Client Name:

City of Benton Harbor

Report #: 474452

Sampling Point: EPDPb 1 Sample 1

PWS ID: MI600

			Le	ad and	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	4.9	ug/L		01/03/20 12:17	4523033
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		01/03/20 12:17	4523033

Sampling Point: EPDPb 1 Sample 5

PWS ID: MI600

200 (100 per 100 per 1			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		01/03/20 12:19	4523034
7439-92-1	Lead	200.8	15!	1.0	< 1.0	ug/L		01/03/20 12:19	4523034

Sampling Point: EPDPb 4 Sample 1

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	3.6	ug/L		01/03/20 12:21	4523041
7439-92-1	Lead	200.8	15 !	1.0	19	ug/L		01/03/20 12:21	4523041

Sampling Point: EPDPb 4 Sample 5

PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID#	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		01/03/20 12:23	4523042
7439-92-1	Lead	200.8	15!	1.0	30	ug/L		01/03/20 12:23	4523042

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

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Client Name: City of Benton Harbor Report #: 474452

#### **Lab Definitions**

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD) -** is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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#### STATE OF MICHIGAN



## DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

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February 13, 2020

#### VIA EMAIL AND U.S. MAIL

Mr. Ellis Mitchell City of Benton Harbor 200 Wall Street Benton Harbor, Michigan 49022 WSSN: 00600 County: Berrien Supply: Benton Harbor

Dear Mr. Mitchell:

SUBJECT: Water System Corrosion Treatment

On October 22, 2018, the Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD), issued a letter to the City of Benton Harbor (the City) for a lead action level exceedance (ALE). In response, the City applied for a construction permit for installation of corrosion control treatment, under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399). On February 25, 2019, EGLE issued the Act 399 construction permit to the City to address the ALE by means of installing a corrosion control treatment system. The treatment chemical permitted, based on a recommendation by Elhorn Engineering, was Carus 8600 which is comprised of 70% orthophosphate and 30% polyphosphate. The target dose was 1.5 milligrams per liter (mg/L) as orthophosphate, and the City's water operators have consistently reached that treatment goal. This has resulted in a residual of approximately 1.5 mg/L orthophosphate in the distribution system.

A review of the last three lead and copper sampling rounds collected by the City concludes the treatment is not achieving desired results quickly enough. The most recent round of samples was collected approximately eight months after the beginning of corrosion control treatment.

The City met with representatives from EGLE on January 15, 2020, to discuss results from the City's lead and copper sampling as it relates to the City's corrosion control treatment. The purpose of this letter is to provide a summary of that meeting and outline next steps for the City to pursue designation of optimized corrosion control treatment as required by Rule 604f of the administrative rules promulgated under Act 399.

Based on a review of the corrosion control treatment and the last three rounds of tap samples for lead and copper, the City is hereby directed to change its current blended phosphate chemical from the 70%/30% ortho/poly-phosphate to a product with a minimum of 90% orthophosphate. The chemical selected must be ANSI/NSF 60 certified for use in drinking water systems. The City is also hereby directed to adopt a new treatment rate, such that a minimum of 3.0 mg/L orthophosphate (as phosphate) residual is maintained throughout the distribution system. This

Mr. Ellis Mitchell Page 2 February 13, 2020

designation is being made under R325.10604f(3)(d). The reason for this change is to speed up treatment effectiveness. EGLE's intent is to quickly put into place treatment that will more efficiently lower corrosion rates in the distribution system for greater protection of public health. This decision is based on corrosion control treatment studies and analyses of documented analogous treatment systems with other water supplies of similar source water chemistry.

The above phosphate treatment strategy is intended to provide immediate improvement of corrosion protection in the distribution system but, without further study, it is not certain to be the optimum treatment strategy. Therefore, the City is directed to have a third-party consultant submit to the department a corrosion control study proposal following the requirements of Rule 325.10604f(3)(c) of the administrative rules promulgated under Act 399. This study proposal must be submitted to the department within six months following the date that the directed treatment change is completed. The study plan must focus on identifying optimum corrosion control treatment for the City's water system. Reference to analogous water systems alone will not suffice to meet this requirement.

In addition, the permitted corrosion control treatment scheme requires the high service pump suction header valve that is next to High Service Pump 3 be closed. This is to force the flow of all water from the suction well through the meter and corrosion control treatment. At the onsite meeting referenced above, it was indicated that the valve state is unknown. Please immediately verify in writing to the department the valve has been closed according to the permit.

#### TRANSITION AND TIMELINE

Prior to changing chemicals, the City must obtain approval of the specific chemical selected by requesting revision of the construction permit under Act 399.

Following approval, the transition to a minimum 90% orthophosphate product must occur as soon as possible, but not later than February 28, 2020.

The City must follow these guidelines during transition to the new chemical:

- Blending of the two phosphate products must not occur. The transition should be abrupt.
- 2. Immediately following the transition to the new treatment, gentle flushing of the distribution system will help provide a thorough transition.
- 3. Increased monitoring of the plant tap and distribution sites will verify when the transition has concluded and the directed residual of a minimum 3.0 mg/L orthophosphate as phosphate is achieved.

Mr. Ellis Mitchell Page 3 February 13, 2020

We anticipate and appreciate your cooperation in resolving this matter. If you have any questions regarding this letter, please contact me at 616-307-6736 or OnanB@Michigan.gov; or you can contact Mr. Ernie Sarkipato, Surface Water Treatment Specialist, Engineering Unit, Field Operations Section, DWEHD, at 616-307-0261; SarkipatoE@Michigan.gov; or EGLE-DWEHD, 350 Ottawa Avenue NW, Unit 10, Grand Rapids, Michigan 49506.

Sincerely,

Brandon Onan, Supervisor

Lead & Copper Unit

Community Water Supply Section

Drinking Water and Environmental Health Division

cc: Mr. Mike O'Malley, City of Benton Harbor

Mr. Darold Harlan, Fleis & Vandenbrink

Mr. Todd Luks, Elhorn Engineering

Ms. Nicki Britten, Berrien County Health Department

Mr. Eric Oswald, EGLE

Mr. Mike Bolf, EGLE

Mr. Ernie Sarkipato, EGLE

#### PERMIT APPLICATION FOR WATER SUPPLY SYSTEMS

(CONSTRUCTION - ALTERATION - ADDITION OR IMPROVEMENT) AS DESCRIBED HEREIN Required under the Authority of 1976 PA 399, as amended

This application becomes an Act 399 Permit only when signed and issued by authorized Michigan Department of Environmental Quality (DEQ) Staff. See instructions below for completion of this application.

1. Municipality or Organization, Address and WSSN that will own or control the water facilities to be constructed. This permit is to be issued to:  Darwin Watson, City Manager 200 East Wall Street Benton Harbor, MI 49022  WSSN: 600	The state of the s	o Area (DEQ use only)
2. Owner's Contact Person (provide name for questions):		
Contact: Mike O'Malley		
Title: Water Plant Superintendent		
Phone: 269-927-8470		
Project Name (Provide phase number if project is segmented):  Phosphate Corrosion Inhibitor Installation	Project Location     (City, Village, Township):     City of Benton Harbor	County (location of project):     Berrien
ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF TH	L E DEPARTMENT OF ENVIRONME	NT QUALITY
cc:	Issued by:	
	Reviewed by:	
If this box is marked see attached special con	ditions.	
Instructions: Complete items 1 through 5 above and 6 that all information except for signatures. Mail completed application District Office having jurisdiction in the area of the propose	cation, plans and specifications,	and any attachments to the DEQ
Please Note:	pration, addition or improvement	JAN 2 4 2019

- a. This PERMIT only authorizes the construction, alteration, addition or improvement of the water system described herein and is issued solely under the authority of 1976 PA 399, as amended.
   b. The issuance of this PERMIT does not authorize violation of any federal, state or local laws or regulations, nor does
- b. The issuance of this PERMIT does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units of government as may be required by law.
- c. This PERMIT expires two (2) years after the date of issuance in accordance with R 325.11306, 1976 PA 399, administrative rules, unless construction has been initiated prior to expiration.
- d. Noncompliance with the conditions of this permit and the requirements of the Act constitutes a violation of the Act.
- e. Applicant must give notice to public utilities in accordance with 1974 PA 53, (MISS DIG), being Section 460.701 to 460.718 of the Michigan Compiled Laws, and comply with each of the requirements of that Act.
- f. All earth changing activities must be conducted in accordance with the requirements of the Soil Erosion and Sedimentation Control Act, Part 91, 1994 PA 451, as amended.
- g. All construction activity impacting wetlands must be conducted in accordance with the Wetland Protection Act, Part 303, 1994 PA 451, as amended.
- Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.
- Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

Permit Application for Water Systems (Continued)

6. Facilities Description – In the space below provide a detailed description of the proposed project. Applications without adequate facilities descriptions will be returned. SEE EXAMPLES BELOW. Use additional sheets if needed.

Installation of equipment to feed a blended polyphosphate for the purposes of corrosion protection. Consultation with Elhorn Engineering has resulted in a recommended corrosion inhibitor. The following are components of the project:

- -Carus 8600, 70% orthophosphate, 30% polyphosphate, chemical strength of 33% as total Phosphate, SG=11.4 lbs/gal -Necessary equipment to feed at a rato of 1.5 mg/L as phosphate:
  - -No day tank needed per estimated chemical use
  - -Stenner S series pump capable of 40 gpd dosing with flow-pacing capabilities
  - -Insertion meter to interface with chemical dosing pump
  - -isolation of the high service pump suction line using existing valves to allow a single dosing pump and flow meter
  - -chemical scale with digital readout (Forceflow XT-600)
  - -LMI corporation stop and nozzle assembly

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Water Mains	500 feet of 8-inch water main in First Street from Main Street north to State Street.  OR  250 feet of 12-inch water main in Clark Road from an existing 8-inch main in Third Avenue north to a hydrant.
Booster Stations	A booster station located at the southwest corner of Third Avenue and Main Street, and equipped with two, 15 Hp pumps each rated 150 gpm @ 200 feet TDH. Station includes backup power and all other equipment as required for proper operation.
Elevated Storage Tank	A 300,000 gallon elevated storage tank located in City Park. The proposed tank shall be spherical, all welded construction and supported on a single pedestal. The tank shall be 150 feet in height, 40 feet in diameter with a normal operating range of 130 – 145 feet. The interior coating system shall be ANSI/NSF Standard 61 approved or equivalent. The tank will be equipped with a cathodic protection system, and includes a tank level control system with telemetry.
Chemical Feed	A positive displacement chemical feed pump, rated at 24 gpd @ 110 psi to apply a chlorine solution for Well No. 1. Chlorine is 12.5% NaOCL, ANSI/NSF Standard 60 approved and will be applied at a rate of 1.0 mg/l of actual chlorine.
Water Supply Well	Well No. 3, a 200 foot deep well with 170 feet of 8-inch casing and 30 feet of 8-inch, 10 slot screen. The well will be equipped with a 20 Hp submersible pump and motor rated 200 gpm @ 225 feet TDH, set at 160 feet below land surface.
Treatment Facilities	A 5 million gpd water treatment plant located at the north end of Second Avenue. The facility will include 6 low service pumps, 2 rapid mix basins, 4 flocculation/sedimentation basins, 8 dual media filters, 3 million gallon water storage reservoir and 6 high service pumps. Also included are chemical feed pumps and related appurtenances for the addition of alum, fluoride, phosphate and chlorine.

Permit Application for Water Systems (Continued)

General Project Information - Complete all boxes be	low.
7. Design engineer's name, engineering firm, address, phone number, and email address:  Chemical Supplier: Mike Enlow, Elhorn Engineering Co. 517-204-2845 mike@michonline.net	8. Indicate who will provide project construction inspection:  ⊠Organization listed in Box 1.  □Engineering firm listed in Box 7.  □Other - name, address, and phone number listed below.
9. Is a basis of design attached?  ☑YES ☐NO	
If no, briefly explain why a basis of design is not needed. Ac	leguate design information is attached
10. Are sealed and signed engineering plans attached?  ☐YES ☐NO	
If no, briefly explain why engineering plans are not needed.	Project is in coordination with Elhorn and MDEQ
11. Are sealed and signed construction specifications attach ☐YES ☐NO	
If specifications are not attached, they need to be on file at D	DEQ.
12. Were Recommended Standards for Water Works, Suggerand the requirements of Act 399 and its administrative rules SYES □NO	
If no, explain which deviations were made and why.	
13. Are all coatings, chemical additives and construction ma  ☐ NO	terials ANSI/NSF or other adequate 3 rd party approved?
If no, describe what coatings, additives or materials did not r	neet the applicable standard and why.
14. Are all water system facilities being installed in the public (For projects not located in the public right-of-way, utility € ☐ NO	right-of-way or a dedicated utility easement?
If no, explain how access will be obtained.	The section for a background or action to the other background
15. Is the project construction activity within a wetland (as de ☐YES ☐NO	efined by Section 324.30301(d)) of Part 303, 1994 PA 451?
If yes, a wetland permit must be obtained.	
	plain (as defined by R 323.1311(e)) of Part 31, 1994 PA 451,
If yes, a flood plain permit must be obtained.	
17. Is the project construction activity within 500 feet of a lak  ☐YES ☐NO	e, reservoir, or stream?
If yes, a Soil and Erosion Control Permit must be obtained of Authorized Public Agency (Section 10 of Part 91, 1994 PA 4	

Permit Application for Water Systems (Continued)

18. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?    YES   NO     YES   NO     YES   NO     NO Describe why activity is not regulated:   Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.    No Describe why activity is not regulated:   Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.    19	
If yes, is this activity regulated by the National Pollutant Discharge Elimination System storm water regulations?    YES: NPDES Authorization to discharge storm water from construction activities must be obtained.   No: Describe why activity is not regulated:   Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.   Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.   If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.   If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.   If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.   If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental accordance district office for listings of Michigan sites of environmental contamination.   If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.   If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.   If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.   Owner's Certification   The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner	
Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.  19. Is the project in or adjacent to a site of suspected or known soil or groundwater contamination?    YES	If yes, is this activity regulated by the National Pollutant Discharge Elimination System storm water regulations?
Please call 517-241-8993 with questions regarding the applicability of the storm water regulations.  19. Is the project in or adjacent to a site of suspected or known soil or groundwater contamination?    YES	TNO: Describe why activity is not regulated:
If yes, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed during construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.  20. IF YOU ARE A CUSTOMERWHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING  1) Name and WSSN of source water supply system (seller)  2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?  □YES □NO  If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.  21. Owner's Certification  The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.  OWNER'S CERTIFICATION  I, Owner's Certify owning proposed facilities) certify that this project has (print)  CAT A Beston Harbor ME. (entity owning proposed facilities) certify that this project has (print)  been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the popularements of 1976 PA 399, as amended, and its administrative rules.	
20. IF YOU ARE A CUSTOMER/WHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING  1) Name and WSSN of source water supply system (seller)  2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?  YESNO  If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.  21. Owner's Certification The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.  OWNER'S CERTIFICATION  I	
1) Name and WSSN of source water supply system (seller)	construction. Contact the local DEQ district office for listings of Michigan sites of environmental contamination.
2) Does the water service contract require water producer/seller to review and approve customer/wholesale/bulk purchaser water system construction plans?    YES	20. IF YOU ARE A CUSTOMER/WHOLESALE/BULK PURCHASER, COMPLETE THE FOLLOWING
Customer/wholesale/bulk purchaser water system construction plans?    YES	Name and WSSN of source water supply system (seller)
Customer/wholesale/bulk purchaser water system construction plans?    YES	2) Does the water service contract require water producer/seller to review and approve
21. Owner's Certification  The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.  OWNER'S CERTIFICATION  In the Owner's Certification  (name), acting as the Burbon for (print)  City of Beston Across MI. (entity owning proposed facilities) certify that this project has been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	customer/wholesale/bulk purchaser water system construction plans?
21. Owner's Certification  The owner of the proposed facilities or the owner's authorized representative shall complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.  OWNER'S CERTIFICATION  In the Owner's Certification  (name), acting as the Burbon for (print)  City of Beston for the proposed facilities and supplication, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	- T
complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.  OWNER'S CERTIFICATION  (name), acting as the Burker for Water Superintendent  (print)  (print)  (entity owning proposed facilities) certify that this project has been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	If yes to #2, the producer/seller approval letter must be attached when submitted to DEQ.
(name), acting as the Benton Her bor Weller Specification) for (print)  City & Beston Herbor, MI. (entity owning proposed facilities) certify that this project has (print)  been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	complete the owner's certification. It is anticipated that the owner will either be a governmental agency (city, village, township, county, etc.) or a private owner (individual, company, association, etc.) of a Type I public water supply.
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been reviewed and approved as detailed by the Plans and Specifications submitted under this application, and is in compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	I. Nike OM-ley (name), acting as the Benton Her bor Weter Specific (title/position) for (print)
compliance with the requirements of 1976 PA 399, as amended, and its administrative rules.	City & Beston Herbor, MI. (entity owning proposed facilities) certify that this project has
Clevel KK 41	
Signature Phone	Signature Phone

^{*}Original signature only, no photocopies will be accepted.

Permit Application for Water Systems (Continued)

#### PROJECT BASIS OF DESIGN - FOR WATER MAIN PROJECTS

PF	ROJ	ECT NAME:
Fo	r pr	s PROJECT the following information must be provided per Act 399 unless waived by the Department. ojects other than water main installation, or if additional space is needed, attach separate sheet(s) with d Basis of Design calculations.
A.		A general map of the initial and ultimate service areas  Included on engineering plans  Attached separately
В.		Number of service connections served by this permit application
C.		Total number of service connections ultimately served by entire project
D.		Residential Equivalent Units (REUs) served by this permit application
E.		Total Residential Equivalent Units (REUs) ultimately served by entire project
F.		Water flow rates for proposed project based on REUs listed in "D" and "E" above
		Initial design average day flow (mgd)
		Initial design maximum day flow (mgd)
		Total design average day flow (mgd)
		4. Total design maximum day flow (mgd)
		5. Required fire flows: (1) gpm for hours
G.		Actual flows and pressures of existing system
		at the connection point(s) (2) gpm at psi
		gpm at psi
		gpm at psi gpm at psi
		gpm at po
H.		Estimated minimum flows and pressures within
		the proposed water main system (3) gpm at psi
	(1)	Every water system must decide what levels of fire fighting flows they wish to provide. Fire flow should be appropriate for the area (residential, commercial, industrial) being served by the project. Typical fire flow rates can be obtained from the water supply, local fire dept., ISO or AWWA. The water system must then be designed to be able to provide the required fire flows while maintaining at least 20 psi in all portions of the distribution system.
	(2)	Flows and pressures at the connection points must be given to determine if the existing water main(s) are able to deliver water to the new service area. These numbers can be obtained from a properly modeled and calibrated distribution system hydraulic analysis or hydrant flow tests performed in the field. If more than one connection is

(3) List what the estimated minimum flows can be expected in the proposed water mains based on estimated water demands, head losses, elevation changes and other factors that may affect flows, such as dead end mains.

proposed, list as needed.

November 21, 2018

City of Benton Harbor 601 N. Ridgeway Street St. Joseph, MI. 49035

Attn: Mike O'Malley - Water Superintendent

Mike,

Thank you for your courtesies extended on my recent visit. As discussed, I am providing information on phosphates and why they are applied for your water system.

Phosphates have a long history of successful application in drinking water treatment, providing both primary and secondary benefits. Phosphates are widely used by facilities to help meet regulatory rules and to produce quality drinking water that will meet public expectations. Phosphates are water treatment chemicals used to solve specific water quality problems resulting from inorganic contaminants (iron, manganese, calcium, etc.) in ground water supplies and also to maintain water quality (inhibit corrosion, scale, biofilm, reduce lead and copper levels) in the distribution system. Ortho and Polyphosphates work together, stabilizing water quality and minimizing color, scale, deposits, corrosion and chlorine demand in drinking water systems.

Phosphates are used in water systems to perform three broad functions.

- 1) Inhibit corrosion of water mains / plumbing (iron, steel, galvanized, asbestos, cement, lead and copper)
- 2) Sequester nuisance metals in water supply (iron, manganese, calcium, magnesium).
- 3) Improvement of the water in the distribution system by removing scale deposits and tuberculation, discourage microbial film formation, regrowth and stabilizing free chlorine disinfectant residuals.

Presently you are not using any phosphate treatment. We are recommending a blended ortho/poly phosphate (Carus 8600). This product is a 70/30 ortho/poly blend, which is a blend with a emphasis on corrosion control. The starting recommended applied dosage rate is 1.0 as PO4. The American Water Works Associate Research Foundation (AWWARF) and the EPA have reported corrosion control (phosphate included) provides numerous health and consumer benefits at a rate of return much greater than the original cost of the additive. Lastly, we would like to install corrosion couple racks to monitor and verify performance results are optimal.

I hope this information is helpful in your dealings with the general public and regulatory agencies.

Sincerely,

Mike Enlow Elhorn Engineering Company

#### CARUS™ 8600 Water Treatment Chemical







#### DATA SHEET

CARUS™ 8600 water treatment chemical is an effective corrosion inhibitor and sequesterant for use in potable and industrial water systems. The product is a liquid concentrate of exceptional purity, clarity, and stability utilizing a broad spectrum of phosphates for better sequestering and corrosion control.

#### BENEFITS OF CARUS™ 8600

- Inhibits corrosion of steel distribution system water lines, iron and galvanized piping, and lead and copper plumbing
- •Decreases iron tuberculation, to extend the life of the distribution system
- ·Inhibits lead and copper leaching, resulting in lower lead and copper levels in the delivered potable water
- Minimizes the occurrence of microbial-influenced corrosion providing longer life system
- ·Controls iron and manganese minimizing rusty and dirty water in the system
- Reduces discoloration, staining, and mineral build-up resulting in fewer customer complaints
- Diminshes calcium scale depostis typically seen in hot water lines and heaters
- ·Saves money by reducing corrosion and scale; lowering chlorine demand and decreasing hydrant flushing, leaks and failures.

#### PROPERTIES AND CERTIFICATIONS

Description: Clear homogenous liquid

Freezing Point: Do not Freeze Specific Gravity: 1.34-1.40 pH (1% w:w):  $5.0 \pm 0.5$ NSF Maximum Feed Rate: 23 mg/L

NSF/ANSI Standard 60, Kosher Appproved





#### HANDLING AND STORAGE

CARUS™ 8600 water treatment chemical should be handled with care. Wear proper protective equipment including goggles, face shield, apron, respirator and proper gloves when handling this product

Protect containers from physical damage. Store in a cool, dry area in closed containers. In case of accidental release: contain spill by collecting the liquid in a pit or holding behind a dam (sand or soil). Absorb with inert media and dispose of properly. Disposal of all materials shall be in full and strict compliance with federal, state, and local regulations Consult the MSDS for additional safety information.

#### SHIPPING

CARUS™ 8600 water treatment chemical is generally considered to be safe and is not classified as hazardous according the US Department of Transportation, Canada TDG, UN, IMDG, or IATA regulations.

#### COMPATIBILITY INFORMATION

CARUS™ 8600 water treatment chemical can be stored in high-medium density polyethylene, cross-linked polyethylene, fiberglass reinforced plastic, 316 stainless steel, glass lined /epoxy lined steel tanks. Piping materials may include schedule 80 PVC/CPVC piping, clear PVC, and white polyethylene tubing. Pump materials may include ceramic, Teflon, viton, hypalon and PVC liquid end pump materials.

Metering equipment can include diaphragm and peristaltic type metering pumps and other pumps meeting compatibility requirements.

It is not compatible with black iron, mild steel, galvanized metals, aluminum, zinc, copper, lead. brass, bronze, tin, and other base metals.

ONE COMPANY, ENDLESS SOLUTIONS

CARUS CORPORATION













#### DATA SHEET

#### SHIPPING CONTAINERS

#### 5-gallon (57-lb) Jerrican

(UN Specification: UN3H1/Y1.8/100) Made of high density polyethylene (HDPE). Weighs 3.0 lb (1.36 kg). The net weight is 57 lb (25.85 kg).

#### 15-gallon (171-lb) Drum

(UN Specification: UNIHI/YI.8/100) Made of high density polyethylene (HDPE). Weighs 6.5 lb (3.0 kg). The net weight is 171 lb (77.6 kg).

#### 30-gallon (342-lb) Drum

(UN Specification: UNIHI/YI.8/100) Made of high density polyethylene (HDPE). Weighs 14 lb (6.35 kg). The net weight is 342 lb (155.1 kg).

#### 55-gallon (627-lb) Drum

(UN Specification: UN1H1/Y1.8/100) Made of high density polyethylene (HDPE). Weighs 21 lb (9.5 kg). The net weight is 627 lb (284.4 kg).

#### SHIPPING CONTAINERS CONT.

#### 275-gallon IBC (Intermediate Bulk Container)

(UN Specification: UN31HA1/Y1.9/100) Weighs 129 lb (58.5 kg). The net weight is 3135 lb (1422 kg). The IBC has a 2 in. butterfly valve with NPT threads in bottom sump.

Bulk Quantities up to 4150 gallons are available.

Other containers may be available, contact Carus Corporation at 800-435-6856 for details.

#### CARUS VALUE ADDED

#### LABORATORY SUPPORT

Carus Corporation has technical assistance available to answer questions, evaluate treatment alternatives, and perform laboratory testing. Our laboratory capabilities include: Consulting, Treatability Studies, Feasibility Studies, and Analytical Services.

#### FIELD SERVICES

As an integral part of our technical support, Carus provides extensive on-site treatment assistance. We offer full application services, including technical expertise, supervision, testing, and feed equipment design and installation in order to accomplish a successful evaluation and/or application.

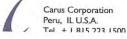
#### **CARUS CORPORATION**

During its more than 90-year history Carus' ongoing emphasis on research and development, technical support, and customer service has enabled the company to become the world leader in permanganate, manganese, oxidation, and base-metal catalyst technologies.

#### ONE COMPANY, ENDLESS SOLUTIONS

CARUS CORPORATION

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change; and the conditions of handling, use or misuse of the product are beyond our control. Carus Corporation makes no warranty, either expressed or implied, including any warranties of merchantability and fitness for a particular purpose. Carus also disclaims all liability for reliance on the completeness or confirming accuracy of any information included herein. Users should satisfy themselves that they are aware of all current data relevant to their particular use(s).









Carus Corporation 1500 8th Street LaSalle, IL 61301

Benton Harbor, MI

Date Received:
Date Analyzed:
Lab Number:

Number of Samples:

Tests per Sample:

11/12/2018 1108-07744 N/A

ME

11/8/2018

Product: PWS No.:

N/A N/A 2

14

Mike Enlow

Elhorn Engineering Co. 889 Eden Road Mason, MI 48854

..... - ....

SAMPLE INFORMATION
Sample Site Date Time

Time Sampler
ME

Raw 10/31/2018 Finished 10/31/2018

C D E

A

В

CC:

F G

**RESULTS** 

Parameter	Α	В	С	D	E	F	G	Units
Hardness	149.8	151.2						mg/L as CaCO3
Orthophosphate	0.05	0.04						mg/L as PO4
Iron	0.08	< 0.02						mg/L
Manganese	<0.01	<0.01						mg/L
Copper								mg/L
Lead								mg/L
Initial pH								
Final Temp.	21.9	22.0						Celsius
Final pH	7.8	7.7						
Alkalinity	53.0	58.3						mg/L as CaCO3
Calcium	38.7	39.2						mg/L
Langelier	-0.21	-0.29						mg/L
Conductivity	153	180						umhos/cm
Chloride								mg/L
TDS	102	120						mg/L
Sulfate	23	32						mg/L
Poly Phosphate	0.08	0.01						mg/L as PO4
Total Phosphate	0.13	0.05						mg/L as PO4

#### Comments:

Note: These results are for monitoring purposes only. They cannot be used for compliance reporting.

Tina Garcia, Senior TS Lab Specialist

Tel: (815) 224-6880



Account Address: Reference:

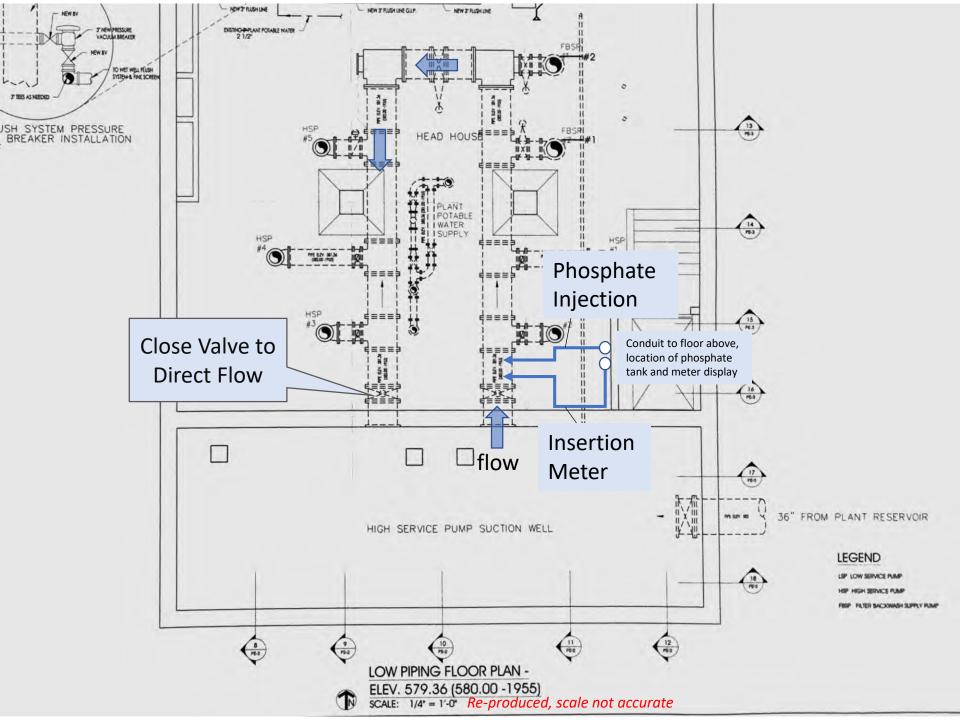
Lab Number: 1108-07744 Date: 11/8/2018

Description of Service	Number of Samples	Tests Per Sample	Price Per Test	Net Extension
Carus Corporation Laboratory Services	2	14	\$25.00	\$700.00
Customer Appreciation Cr	redit			(\$700.00)
			Total USD	\$0.00

By teaming with Elhorn Engineering and Carus, you just saved \$700.00 in outside laboratory fees!

Thank you for giving us the opportunity to serve you.

We appreciate your business and the confidence you have placed in us. Please contact Tina Garcia at (815) 224-6880 for further assistance.



Carus 8600 City of Benton Harbor Corrosion Inhibitor Addition

Ortho Content 70% Poly Content 30% Density: 11.4 lbs/gal

Strength 33% total P

Chemical Use Flow Rate Calculation (gallons per day)					
Min Flow Rate   Ave Flow Rate   Max Flow Rate   State Rated Capacity					
Plant Flow	Rate (mgd):	2	3	5	8
	1 mg/L as PO4	6.33	9.50	15.84	25.34
	2 mg/L as PO4	12.67	19.00	31.67	50.67
The Dog by	3 mg/L as PO4	19.00	28.50	47.51	76.01

Goal: 1.5 mg/L as PO4

Low End: 9.3 gpd High end: 37.5 gpd *Proposed Pump:* 40 gpd

realistic day: max day:

Gal Chem per day 10 40

# days per tank 5.5 1.38



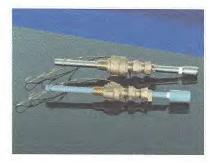
#### COMPANY PRODUCTS MARKETS DISTRIBUTOR LOCATOR RESOURCES CONTACT US

LMI PRODUCTS Accessories Corporation Stop & Nozzle Assembly

#### Corporation Stop & Nozzle Assembly

#### Corporation Stop & Nozzle Assembly

LMI offers a selection of Corporation Stop & Nozzle Assemblies to meet your chemical injection requirements. Available in four sizes consisting of 1" NPT with PP Nozzle, 1" NPT with Carpenter 20 Nozzle, 1" Mueller with PP Nozzle and 314" NPT with CPVC Nozzle. The durable brass components in contact with potable water are designed with a 0.10% maximum lead content which meets certain areas requiring "lead free" or "no lead" fixtures.



High Resolution Image

Request a Quote



Features Tab

Information Tab

Brass components in contact with potable water are designed with a 0.10% maximum lead content Injects Chemical into the center of the water flow

Allows easy nozzle withdrawal for service removal of injection check valve without shutdown of treated line. Maximum pressure: 150 PSI

Part No.	Description
49290	1" Mueller Bronze Corp Stop Assembly with PP Nozzle Assembly (replaces P/N 27741)
49289	1" NPT Bronze Corp Stop with Carpenter 20 Nozzle Assembly (replaces P/N 26741)
49288	1" NPT Bronze Corp Stop with PP Nozzle Assembly (replaces P/N 10741)
49287	3/4" NPT Bronze Corp Stop Assembly with CPVC Nozzle Assembly (replaces P/N 10998)



# S SERIES PERISTALTIC PUMP

**SMART TECHNOLOGY** 

SIMPLE PROGRAMMING

**SOLID CONSTRUCTION** 

**For Demanding Applications** 



#### THE S SERIES INTERFACES WITH PROCESS **CONTROL SYSTEMS UTILIZING A 4-20mA OUTPUT SIGNAL AND THREE RELAY OUTPUTS**

Built to NEMA 4X for demanding applications. Select from multiple performance indicators and operational modes with intuitive programming and easy navigation. Fine-tune the pump to fit the application; monitor the pump for peace of mind. Prevent unauthorized access to programmed settings with the password protection.

## **SMART TECHNOLOGY**

#### PERFORMANCE INDICATORS

Program the pump to respond based on a selected condition:

- Tube Leak
- Mode Change
- Tube Change
- Low Signal
- Standby
- Repeat Pulse Low Flow
- Run
- High Signal
- High Flow
- Drive Fault
- Signal Overrun
- Transfer
- Off



#### TUBE LEAK DETECTOR

- Can detect solution in the pump head, vertically or horizontally
- Program alarm indicator with option to stop pump upon alarm
- Calibrate the sensitivity to avoid false detection



#### **TUBE TIMER**

Set the tube's life expectancy in hours. When the set time is reached, the display shows the tube change alarm indicator.



#### **STANDBY**

Program the transfer function to activate a relay to start a second S Series in Standby, as a back up to the primary pump.





## **SIMPLE PROGRAMMING**

#### **PUMP SIGNAL INPUTS**

ANALOG	4-20mA 0-10VDC	<ul> <li>Proportional response to a 4-20mA signal; scalable, invertible.</li> <li>Speed varies to the signal level.</li> <li>Proportional response to a 0-10VDC signal; scalable, invertible.</li> </ul>
		Speed varies to the signal level.
DIGITAL	Pulse	<ul> <li>Accepts a dry contact or open collector type input signal from a controller or water meter.</li> <li>Activates at the number of pulses received, to run for a set amount of time.</li> </ul>
	Hall Effect	<ul> <li>Speed varies according to Hall Effect input from a controller or flow meter.</li> <li>Program is based on meter's K factor, process flow range and desired pump output.</li> </ul>
	PPM Feed Constant Flow	<ul> <li>Accepts a dry contact or open collector type input signal from a flow switch.</li> <li>Program is based on the process flow rate, chemical concentration, chemical specific gravity and the desired ppm feed rate.</li> </ul>
PPM Feed Variable Flow		<ul> <li>Accepts a Hall Effect input from a flow meter.</li> <li>Speed varies to maintain the desired ppm feed rate.</li> <li>Program is based on meter's K factor, process flow range, chemical concentration, chemical specific gravity and desired ppm feed rate.</li> </ul>
MANUAL	Manual	<ul><li>Speed controlled manually.</li><li>Adjustable from 0% to 100% in 1% increments.</li></ul>
	7 Day / 24 Hour Timer	<ul> <li>Program with a clock in real time.</li> <li>Run for a specific day, at a specific time, at speeds from 1% to 100%.</li> <li>24 independent events, any combination of days.</li> </ul>
	Cycle Timer	Run on a repeatable ON/OFF sequence.

#### **PUMP SIGNAL OUTPUTS**

ANALOG 4-20mA	<ul> <li>Produces a non-adjustable, proportional signal corresponding to the speed percentage the pump is running. 4mA=0% &amp; 20mA=100%</li> </ul>
DIGITAL Relays	<ul> <li>Dry contact signal; program normally open or normally closed.</li> <li>Indicate an alarm.</li> <li>Repeat an incoming signal.</li> <li>Transfer operation to another S Series pump in Standby.</li> </ul>



## **SOLID CONSTRUCTION**

- Brushless DC motor is equipped with ball bearing support
- · Switch mode power supply is energy efficient
- Totally enclosed pump is outdoor rated
- OLED operating display is easy to navigate with intuitive programming
- QuickPro® pump head offers tube replacement without tools
- Splined shaft designed pump head & roller assembly allow smooth installation & replacement
- NEMA 4X, NSF 61 & 372, cULus indoor/outdoor, CE IP65

#### **MAXIMUM FLOW RATES**

40 gpd, up to 100 psi / 151.4 lpd, up to 6.9 bar 85 gpd, up to 25 psi / 321.8 lpd, up to 1.7 bar

#### **VOLTAGE**

120 VAC, 60Hz 230 VAC, 50Hz

#### STENNER PUMPS BUILT WITH A STRONG WORK ETHIC

- 1. Self-priming against maximum working pressure
- 2. Can inject off-gassing solutions
- 3. No vapor lock or loss of prime
- 4. Easy tube replacement without tools
- 5. Uniquely manufactured solid one piece tube construction
- 6. Tube lubrication not required
- 7. Three point roller design assists with anti-siphoning
- 8. Output reproducibility
- 9. Output volume not affected by back pressure
- 10. Foot, prime or de-gassing valve not required

## **S SERIES**



#### **Designed for Demanding Applications**

The S Series is an advanced peristaltic metering pump built to NEMA 4X for demanding applications. Select from multiple operational modes and performance indicators that readily interface with process control systems utilizing a 4-20mA output signal and three relay outputs. Navigate through the many pump configurations with the tactile keypad and OLED display to customize the parameters for the specific application.

#### **Performance Indicators**

		Programable Communication		
Pump Condition	Control Mode	Display Alarm on pump control panel	Output Relay to another pump, system or device	
Tube Change		✓	not applicable	
Tube Leak	Manual	✓	✓	
Standby	4-20mA	✓	✓	
Drive Fault	0-10VDC	✓	✓	
Off	Pulse Hall Effect 7 Day Timer PPM Feed Cycle Timer	✓	✓	
Repeat Pulse		not applicable	✓	
Run		not applicable	✓	
Mode Change		not applicable	✓	
Transfer		not applicable	✓	
High Signal	4-20mA or 0-10VDC	✓	✓	
Low Signal	4-20mA or 0-10VDC	✓	✓	
High Flow	Hall Effect or PPM Feed	✓	✓	
Low Flow	Hall Effect	✓	✓	
Signal Overrun	Pulse	✓	✓	

#### **Quick Facts**

- 0.05 to 40.0 gpd, pressures to 100 psi
- 0.40 to 85.0 gpd, pressures to 25 psi
- Digital keypad with OLED display
- Tube leak detector
- Tube life timer
- Password protection

#### **Features**

- Advantages of Stenner peristaltic pumps on page 1
- Fast tube replacement without tools with patent pending QuickPro® pump head
- · Brushless DC motor with ball bearing support
- Switch mode power supply
- · Totally enclosed housing
- NEMA 4X
- NSF 61 & 372
- · cULus indoor/outdoor
- CE IP65

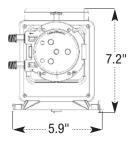
### S SERIES

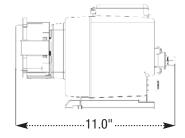
#### **Weights and Dimensions**

**Shipping Weight** 8 lbs (3.7 kg)

**Box Dimensions** 14 x 9 x 9 in. (35 x 23 x 23 cm)

#### **Product Dimensions**





#### **Accessory Kit Shipped with Each Pump**

- 3 Connecting nuts 1/4" or 3/8"
- 3 Ferrules 1/4" or 6 mm EUROPE
- 1 Injection check valve 100 psi (6.9 bar) OR 1 injection fitting 25 psi (1.7 bar)
- 1 Weighted suction line strainer 1/4", 3/8" or 6 mm EUROPE
- 20' Roll suction/discharge tubing 1/4" or 3/8", white or UV black OR 6 mm white EUROPE
- 1 Additional pump tube
- 2 Additional latches
- 1 Mounting bracket
- Quick start guide

#### **Specifications**

#### **Flow Rate Output Control**

Varies per control mode; digital keypad

Reproducibility ±2%

#### **Maximum Working Pressure**

25 psi (1.7 bar), 100 psi (6.9 bar)

**Maximum Operating Temperature 104°F (40°C)** 

#### **Maximum Suction Lift**

25 ft (7.6 m) vertical lift, based on water

Motor Type Brushless DC motor

**Duty Cycle Continuous** 

#### **Motor Voltage (Amp Draw)**

120V 60Hz 1PH (0.6), 230V 50Hz 1PH (0.3)

#### **Power Cord Type**

120V 60Hz SJTOWA, 230V 50Hz H05RNF

#### **Power Cord Plug End**

120V 60Hz 15P, 230V 50Hz CEE7/7, 230V 50Hz SEV1011

Hall Effect Max. Input Frequency 100 KHz

**RPM** Variable

RPM (maximum) 45

RPM (gradient) By %

The % sets the speed and is not 1 to 1 for RPM.

Maximum Altitude 6562 ft. (2000 m)

Maximum Viscosity 1500 Centipoise

**Pulse Duration Required** 10 milliseconds

Minimum duration required for pump to read signal.

#### **Materials of Construction**

**All Housings** Polycarbonate

#### **Pump Tube & Check Valve Duckbill**

Santoprene®*, optional Versilon™**, FDA approved

CV Duckbill with Versilon™** Tube Pellathane®†

**Pump Head Rollers** Polyethylene

Roller Bushings Oil Impregnated sintered bronze

Suction/Discharge Tubing, Ferrules 1/4" & 6 mm

Polyethylene, FDA approved

#### **Tube Fittings, Injection Fittings**

Type 1 Rigid PVC or Polypropylene, NSF Listed

#### **Connecting Nuts**

Type 1 Rigid PVC or Polypropylene

3/8" Adapter Type 1 Rigid PVC, NSF Listed

Suction Line Strainer Polypropylene or Type 1 Rigid PVC body with Type 1 Rigid PVC Cap, NSF

listed; ceramic weight

All Fasteners Stainless steel

Pump Head Latches Polypropylene

#### **Agency Listings**

Models (Santoprene® only) tested by IAPMO to conform to ANSI/NSF STD 61 & 372.







- Santoprene® is a registered trademark of Exxon Mobil Corporation.
- Versilon™ is a registered trademark of Saint-Gobain Performance Plastics.
- Pellathane® is a registered trademark of The Dow Company.

#### S Series - Flow Rate Output Chart 25 psi (1.7 bar) maximum

Model	Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day	Liters per Day	Gallons per Hour	Liters per Hour	Ounces per Hour	Milliliters per Hour	Ounces per Minute	Milliliters per Minute
S3003	<b>S</b> 3003	3	100:1	0.40 to 40	1.51 to 151	0.017 to 1.67	0.063 to 6.31	2.13 to 213	63.09 to 6309	0.036 to 3.56	1.05 to 105
S3004	S3004	4	100:1	0.60 to 60	2.27 to 227	0.025 to 2.50	0.095 to 9.46	3.20 to 320	94.64 to 9464	0.053 to 5.33	1.58 to 158
S3005	S3005	5	100:1	0.85 to 85	3.22 to 322	0.035 to 3.54	0.134 to 13.41	4.53 to 453	134.07 to 13407	0.076 to 7.56	2.23 to 223
				Approximate Output @ 50/60Hz							

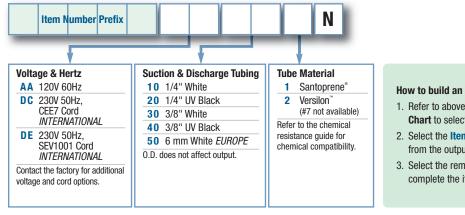
#### S Series - Flow Rate Output Chart 100 psi (6.9 bar) maximum

Model	Item Number Prefix	Pump Tube	Turndown Ratio	Gallons per Day	Liters per Day	Gallons per Hour	Liters per Hour	Ounces per Hour	Milliliters per Hour	Ounces per Minute	Milliliters per Minute
S3001	S3001	1	100:1	0.05 to 5	0.19 to 19	0.002 to 0.21	0.008 to 0.79	0.27 to 27	7.89 to 789	0.004 to 0.44	0.13 to 13
S3002	S3002	2	100:1	0.17 to 17	0.64 to 64	0.007 to 0.71	0.027 to 2.68	0.91 to 91	26.81 to 2681	0.015 to 1.51	0.45 to 45
S3007	S3007	7	100:1	0.40 to 40	1.51 to 151	0.017 to 1.67	0.063 to 6.31	2.13 to 213	63.09 to 6309	0.036 to 3.56	1.05 to 105
				Approximate Output @ 50/60Hz							

NOTE: Injection check valve included with pumps rated 100 psi (6.9 bar) maximum.

NOTICE: The information within these charts is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs.

#### Item Number Builder



#### How to build an Item Number

- 1. Refer to above Flow Rate Output Chart to select a pump.
- 2. Select the Item Number Prefix from the output chart.
- 3. Select the remaining options to complete the item number.



**FPI Mag**[™]

Full Profile Insertion Flow Meter





## Unbeatable Value in Cost of Installation and Ownership

Ideal for Capital or Maintenance Projects, Retrofits and Sites Never Before Metered

#### **MUNICIPAL WATER AND WASTEWATER**

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

#### Water

- Distribution
- Effluent
- · Pumping Stations
- UV Dosing
- · Filter Balancing and Backwash
- Wells & Booster Stations

#### Wastewater

- Effluent
- Recycle / Reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.



#### **INDUSTRIAL FACILITIES**

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

#### **Applications Include:**

- · Cooling Water
- Fire Water
- Feed Water

- Raw Water
- Inlet to Surge Basin
- Effluent Wastewater



#### **Simple Installation**

The insertion design of the FPI Mag allows for easy installation across a wide range of applications and pipe sizes. Hot Tap installation allows you to insert the meter without interrupting service, de-watering lines, cutting pipe or welding flanges.

#### **Lower Costs**

Customers save 45%+ on installation and the total cost of ownership. The FPI Mag eliminates the need for heavy equipment and manpower necessary to support installation.

#### **Unmatched Accuracy**

The FPI Mag's multi-electrode design and unique operating principle delivers accuracy unmatched by other insertion meters and rivals the performance of full-bore mag meters.

#### **Robust Construction**

With no moving parts, there is nothing to wear or break. The sensor body is made from heavy-duty 316 stainless steel for maximum structural integrity. The sensor body is hermetically sealed and protected by NSF certified 3M fusion-bonded epoxy coating.

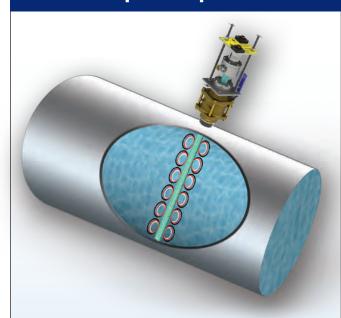
#### Versatile

The FPI Mag is ideal for capital or maintenance projects, retrofits and sites never before metered. The unique combination of accuracy, ease of installation and total cost savings make the FPI Mag the perfect choice for a wide range of Municipal and Industrial applications.



- Simple Installation
- Lower Costs
- Unmatched Accuracy

## **Principle of Operation**



The FPI Mag operates based on Faraday's Law of Electromagnetic Induction: When water (a conductor) moves through a magnetic field, it produces a voltage that is directly proportional to the velocity of the conductor.

#### How it Works ...

- · Electromagnetic coils installed inside the entire length of the sensor produce magnetic fields
- Stainless steel electrode pairs installed on the outside of the entire sensor length collect the induced voltage caused by the flowing water
- The total voltage signal is then transmitted to the converter electronics where it is converted to an average flow velocity
- The converter then multiplies this average flow velocity by the pipe's cross-sectional area to create a volumetric flow rate

## **Rivals the Performance** of a Full-Bore Mag!

Multi-Electrode design delivers accurate full profile measurement with repeatable results

#### PERFORMANCE SPECIFICATIONS

Range: 0.3 ft/s to 32 ft/s (0.1 m/s to 10 m/s)

Up to  $\pm 0.5\%$  from 1 ft/s to 32 ft/s (0.3 m/s to 10 Accuracy:

m/s) Up to  $\pm$  1% from 0.3 ft/s to 1 ft/s (0.1 m/s to

0.3 m/s

Linearity: 0.3% of reading

**Pipe Sizes:** 4" - 138" (100 mm to 3,500 mm)

Materials: 316 Stainless Steel Sensor Body, Insertion

Hardware and Sensor Electrodes

NSF Certified 3M Fusion-Bonded Epoxy Coating

#### CERTIFICATIONS AND APPROVALS

Listed by CSA to 61010-1: Certified by CSA to UL 61010-1 & CSA C22.2 No. 61010-1-04



ISO 9001:2008 certified quality management





To learn more and see a demonstration, go to: www.mccrometer.com/fpimag

#### M-SERIES CONVERTER

The FPI Mag utilizes our pre-programmed M-Series Converter*:



- Curve-fitting algorithm to improve accuracy
- Dual 4-20 mA analog outputs
- RS485 port for easy connection to DCS
- 8 line graphical LCD display
- 3 key touch programming
- Rugged enclosure meets IP67

*See data sheet for complete specs and order information

#### The McCrometer Value Difference



For over 55 years, McCrometer has demonstrated an unyielding commitment to integrity which is reflected in our stringent flow meter calibration processes. Each flow meter is individually wet calibrated in one of our two world-class NIST traceable calibration facilities and delivered with a Certificate of Calibration.

National Institute of Standards and Technology



Our Hemet, California factory boasts a robust Calibration Test Lab that enables production of the most accurate and precise flow instrumentation. The test facility utilizes three gravimetric systems and two volumetric systems providing accuracy and calibration tests of flow meters from 1/2 to 20-inch diameter, with flow rates up to 4,000 gpm.



Our large volume test facility is located in Porterville, California. This facility is one of the world's largest volumetric test facilities owned by a meter manufacturer, and it offers accuracy and calibration tests of flow meters from 3 to 72-inch diameter, with flow rates up to 60,000 gpm.





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#### www.mccrometer.com

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Represented by:



#### BATTERY POWERED DIGITAL WEIGHT INDICATOR







- + NO AC POWER NEEDED
- + 4-20MA OUTPUT FOR REMOTE MONITORING
- + LEVEL ALARM
  OUTPUT RELAY
- LARGE DIGITAL DISPLAY

THE SOLO® XT WEIGHT INDICATOR FROM FORCE FLOW NOW FEATURES KEYPAD CONTROL, BATTERY BACKUP FOR THE 4-20MA OUTPUT MODEL, A BAR GRAPH DISPLAY AND A LEVEL ALARM RELAY. COMBINE THE SOLO XT WITH OUR CHEMICAL MONITORING SCALES TO ACCURATELY TRACK CHEMICAL USAGE AND REMAINING AMOUNTS.

THE SOLO XT USES OUR PROVEN DURABLE HYDRAULIC LOAD CELL FOR WEIGHT SENSING AND HAS A BATTERY POWERED DISPLAY SO NO AC POWER IS REQUIRED. THIS ELIMINATES THE NEED FOR A COSTLY ELECTRICIAN DURING INSTALLATION AND SCALE LIFE IS MAXIMIZED SINCE NO ELECTRONIC COMPONENTS ARE LOCATED ON THE FLOOR.

TWO STANDARD C CELL FLASHLIGHT
BATTERIES POWER THE SOLO XT FOR UP TO 4000
HOURS WHEN USED IN CONTINUOUS DISPLAY MODE.
IN ORDER TO FURTHER EXTEND BATTERY LIFE, THE

LCD DISPLAY CAN BE ACTIVATED BY THE ON/OFF BUTTON. ONCE ACTIVATED, THE DISPLAY AUTOMATICALLY POWERS DOWN AFTER A USER SELECTED AMOUNT OF TIME OR CAN BE INSTANTLY SHUT OFF BY PRESSING THE BUTTON AGAIN. IN THIS DISPLAY-ON-DEMAND^{IM} MODE, THE BATTERIES WILL LAST UP TO THREE YEARS. THE DISPLAY ON THE 4-20MA MODEL REMAINS ON CONTINUOUSLY, POWERED BY THE 12 TO 36 VOLT DC LOOP WITH THE BATTERIES ACTING AS AN AUTOMATIC BACKUP IF LOOP POWER IS UNAVAILABLE.

THE SOLO XT CAN BE USED WITH MOST FORCE FLOW SCALES AND CAN EASILY REPLACE AN EXISTING CENTURY HYDRAULIC DIAL TO CREATE A DIGITAL SCALE SYSTEM.

**FORCE FLOW** 

POINT.

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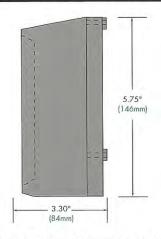
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DIGITAL DISPLAY INDICATOR, MODEL XT_

WWW.FORCEFLOW.COM

CONCORD, CA 94520 USA (WWW.FORCEFLOW.COM), OR EQUAL.



SCALE SHALL CARRY A FULL FIVE (5) YEAR WARRANTY. "LIMITED"

UNACCEPTABLE.

WARRANTIES SHALL BE CONSIDERED

FORCE FLOW

DIMENSIONS: INCHES (MILLIMETERS)

SEE BULLETINS 204, 205 & 512 FOR PLATFORM DIMENSIONS

MODEL NUMBER		DESCRIPTION	CHANNELS • ONE				
CYLINDER SCA KT150-1 KT150-2 KT400AS	150-2 XT100K-2   DUAL CYLINDER SCALE FOR 150 LB. CHLORINE & SO2 CYLINDERS     150-2 XT100K-2   DUAL CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDER SCALE FOR 150 LB. AMMONIA CYLINDERS     150-2 XT200KAS   SINGLE CYLINDERS     150-2 XT200KAS						
DRUMM-SCALE XT10DS	XT5KDS	1000 LBS (500 KG)	18"-24" (460-610mm)	WELDED STEEL W/TUF-COA	HYDRAULIC LOAD CELL  DISPLAY     O.8" CHARACTERS     5 DIGIT		
LEVEL ALARM	TARE ADJUSTMENT  • ENTER TARE WT OR ENTER NET WT  OUTPUTS  • 4-20MA FOR REMOTE MONITORING						
CHLOR-SCALE	S FOR CHLORI		CALES TO MONITOR LARGE CONTACT FACTORY FOR		1.0A LEVEL ALARM OR SETPOINT RELAY  4-20 MA ANALOG OUTPUT		
READOUT/HYDRAU WEIGHT INDICATO DRY THICKNESS O BE OF THE SINGLE DIAPHRAGM TYPE	JLIC LOAD CELL T OR WITH NO SHAR OF 80 MILS AND B E HYDRAULIC LOA • FLEXIBLE TUBI	YPE. FOR REDUNDANCY, E ED INTERNAL COMPONENTS E RESISTANT TO MOISTURE D CELL DESIGN. LOAD CEL NG SHALL CONNECT LOAD C	S. SCALE PLATFORM COATING E, CHEMICALS, ABRASION, IMP L SHALL BE OF THE TEMPERAT ELL TO INDICATOR TO ALLOW	ALL HAVE A SOLE AND SEPARATE SYSTEM SHALL BE A MINIMUM ACT AND UV LIGHT. SCALE SHALL	INDICATOR SHALL HAVE A LOOP- POWERED (12-36 VOLTS DC BY OTHERS) 4-20 MA OUTPUT PROPORTIONAL TO NET WEIGHT. AN 18 INCH FLYING LEAD SHALL BE PROVIDED FOR TERMINATION IN A USER SUPPLIED JUNCTION BOX.		
INDICATOR SHALL DISPLAYED WEIGH POWER FOR DISPI SHALL BE HOUSED DISPLAYED IN TWO DISPLAYED A THIRI	INDICATOR SHALL HAVE A 1.0 AMP LEVEL ALARM SET POINT THAT CAN I CONFIGURED FOR EITHER A HIGH OI LOW LEVEL ALARM CONDITION. AN						
TANK TARE WEIGH	IT. A MENU KEY	SHALL PROVIDE ACCESS TO		. WEIGHT, OR SCROLLING IN THE S: 1) ZERO INDICATOR, 2) SET	18 INCH FLYING LEAD SHALL BE PROVIDED FOR TERMINATION IN A USER SUPPLIED JUNCTION BOX.		

AS MANUFACTURED BY FORCE FLOW, 1150-D BURNETT AVENUE,

FULL SCALE ACCURACY SHALL BE BETTER THAN 1%. SCALE SHALL HAVE TUF-COAT™ COATING SYSTEM AND SOLO® XT

TYPICAL SPECIFICATIONS, DRAWINGS AND BROCHURES CAN BE DOWNLOADED FROM OUR EXTENSIVE WEBSITE AT