



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 _____

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system or those persons directly responsible for gathering such information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Benton Harbor Representative: Ellis Mitchell
Signature: Ellis G. Mitchell Date: 1/05/2021

F&V Operations Representative: N/A
Signature: N/A _____ Date: N/A _____



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. Supply Name: Benton Harbor

2. County: Berrien 3. WSSN: 0600

4. Population: 9826 5. Monitoring Period: From: 07/01/2020 To: 12/31/2020

6. Minimum # of Samples Required: 60 7. # of Samples Taken: 64

8. Name of Certified Laboratory: State of Michigan and Eurofins Eaton Analytical

9. SAMPLE CRITERIA:

This form is for water supplies collecting <u>some</u> or <u>all</u> lead and copper samples from sites WITH LEAD SERVICE LINES. All other supplies should use Form B.		
Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Did you prioritize sample collection according to the following: <ul style="list-style-type: none"> • 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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed): Not all previous sites were willing to participate.
Comments: Sampling and notification data prior to 11/09/2020 was conducted by former operator in charge. Service line material data is based on available records provided by previous operator in charge.		

10. SIGNATURE:

Name: _____ Signature: _____

Title: _____ Phone: _____ Date: _____

11. TAP SAMPLING DATA

Use additional sheets as needed. Sheet _____ of _____.

Water Supply Name: _____

WSSN: _____

Sample Location	Sample Date	Tier (1,2,3,OT) ¹	Category (see below) ²	Building Plumbing (L,C,CLS, G,P) ³	Service Line (L*,C,G,P) ³	Tap Type (K,B) ⁴	1 st Liter Sample				5 th Liter Sample							
							Lead <input type="checkbox"/> mg/L <input type="checkbox"/> ug/L	Copper <input type="checkbox"/> mg/L <input type="checkbox"/> ug/L	Lab Sample Number		Lead <input type="checkbox"/> mg/L <input type="checkbox"/> ug/L	Copper <input type="checkbox"/> mg/L <input type="checkbox"/> ug/L	Lab Sample Number					
See Attached																		

1 Tier	2 Category	Description	1 Tier	2 Category	Description	3 Material	4 Tap Type
Tier 1	A*	Single Family w/ lead service line	Tier 2	D*	Multi Family or building w/ lead service line	L* = Lead	K = Kitchen Sink B = Bathroom Sink O = Other (not an option for residential sites)
	B	Single Family w/ interior lead plumbing		E	Multi Family or building w/ interior lead plumbing	C = Copper	
	C	Multi Family Residence (MFR) w/ a LSL* or lead interior plumbing. If MFRs comprise at least 20% of total service connections. <small>* Use Form A if any samples collected from sites with LSLs to allow reporting of 1st and 5th liter results.</small>	Tier 3	F	Single Family w/ copper plumbing with lead solder installed before 1988	CLS = Copper with lead solder G = Galvanized P = Plastic	
			Other	OT	if no Tier 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply.		

WSSN 0600 City of Benton Harbor 2nd Half 2020

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

Sample Location	Sample Date	Tier (1, 2, 3, OT)	Category	Building Plumbing	Service Line (L, C, G, P)	Tap Type (K, B)	1st Draw		5th Draw	
							Lead ppb	Copper ppb	Lead ppb	Copper ppb
1292 Bishop	10/29/20	Tier 1	A	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	A	Unk	Lead	KITCHEN	17	2	20	1.3
1354 Bishop	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	1.3	0	1.1	0
948 Ogden	10/21/20	Tier 1	A	Unk	Lead	KITCHEN	6.9	52	7.1	44
1133 Jennings	10/21/20	Tier 1	A	Unk	Lead	KITCHEN	25	4.2	25	2.7
1248 Broadway	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	4.1	0	2	0
1026 Bishop	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	5.5	45	4.4	2.7
1271 Pavone	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	8.6	8.4	3.9	11
1259 Bishop	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	6.3	4.2	5.1	0
285 Hastings	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	1.6	7.2	1.3	1.6
1086 Superior	10/29/20	Tier 1	A	Unk	Lead	KITCHEN	7	0	11	0
174 Hastings	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	3.4	1.1	4.4	1.2
649 Pipestone	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	31	5.7	20	14
1112 Agard	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	0	8.2	1.1	1.6
1053 Jennings	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	4.1	5.8	0	6.6
1020 Bishop	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	0	14	0	5.8
1251 Columbus	10/21/20	Tier 1	A	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	1
885 Mineral	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	0	4.2	0	5.5
1110 Ogden	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	28	16	29	13
781 Buss	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	100	3.9	1.6	0
610 Superior	10/14/20	Tier 1	A	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	5
1016 LaVette	10/14/20	Tier 1	A	Unk	Lead	KITCHEN	6.1	1.6	5.1	0
1197 Agard	10/15/20	Tier 1	A	Unk	Lead	KITCHEN	2.9	0	2.9	0

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999 Pearl St	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	9.8	7.3	28	16
1178 Broadway	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	18	1.6	19	1.9
857 Ogden	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	21	0	24	0
141 Winan	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	0	2.4	1.3	4.5
768 Broadway	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	0	1.2	0	1.1
812 Lavette	10/21/20	Tier 1	A	Unk	Lead	KITCHEN	240	36	50	2.5
1264 Pavone	10/29/20	Tier 1	A	Unk	Lead	KITCHEN	0	0	0	0
166 Searles	10/07/20	Tier 1	A	Unk	Lead	KITCHEN	12	2.1	13	2
819 Vineyard	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	1.2	4.8	2.4	2.4
1237 Columbus	10/06/20	Tier 1	A	Unk	Lead	KITCHEN	27	3.4	40	3.7
1115 Superior	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	3.6	51	3.9	54
578 Edwards	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	0	19	6.6	150
341 Brunson	10/29/20	Tier 1	A	Unk	Lead	KITCHEN	0	1.5	0	2
1011 Pearl St	10/21/20	Tier 1	A	Unk	Lead	KITCHEN	2.1	6.5	1.8	2.4
1191 Pavone	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	0	1.2	1.6	2.1
1069 Hurd	11/10/20	Tier 1	A	Unk	Lead	KITCHEN	2.9	25	3.7	1.5
1225 Colfax	11/09/20	Tier 1	A	Unk	Lead	KITCHEN	4.5	2.9	3.2	0
1289 Bishop	10/21/20	Tier 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	A	Unk	Lead	KITCHEN	1	0	1	0
185 Parker Ave	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	1	0	5	0
1161 Union St	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	3	0	5	0
504 Territorial Rd	12/4/2020	Tier 1	A	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	A	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	A	Unk	Lead	KITCHEN	1	0	1	0
400 John Street	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	0	0	1	0
204 Garfield	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	0	0	0	0
1043 Agard	12/4/2020	Tier 1	A	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	A	Unk	Lead	KITCHEN	0	0	2	0
660 McGuigan	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	0	0	0	0
1167 Broadway	12/4/2020	Tier 1	A	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	A	Unk	Lead	KITCHEN	0	0	0	0
565 Clay (stagnation)	12/4/2020	Tier 1	A	Unk	Lead	KITCHEN	2	0	2	0



**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.
 - An explanation of the health effects of lead and copper.
 - Steps consumers can take to reduce exposure to lead in drinking water.
 - 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.

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.
- Delivery 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.

Edwin E. Mitchell
Signature

City Manager
Title

1/05/2021
Date



**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
 Sample Location: 201 Garfield Date Sampled: 12/4/2020

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	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.
 - 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
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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