



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: City of Benton Harbor, MI.  
2. County: Barrien 3. WSSN: 0600  
4. Population: 9,670\* 5. Monitoring Period: From: 1/1/19 To: 6/30/19  
6. Minimum # of Samples Required: 60 (Should be 40) 7. # of Samples Taken: 47  
8. Name of Certified Laboratory: MDEQ Laboratory, Lansing, MI.

9. SAMPLE CRITERIA:

This form is for water supplies collecting some or all 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? <u>All Tiers</u>
		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: • Tier 1 sites must be used unless insufficient Tier 1 sites available. <u>All Tiers</u> • 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 checked="" 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): <u>Yes Most No Mostly - only a couple of sites from 2018 met the new sample criteria Tier I</u>

For more information see Instructions item 11 "Tier and Sample Category" at the end of the document.

Comments:

\* You can see by the 2015 water Population = 9,670 people  
It was revised to 2019 to 9,660. MDEQ Forced 60 sites.  
Both are under 10,000 so renewed Sampling by rule required only 40  
(to original)

10. SIGNATURE:

Name: Michael O'Malley Signature: [Signature]  
Title: Benton Harbor Water Supt. Phone: (269) 363-0575 Date: 7/10/19

7/10/2019

7/10/2019							1st Liter Sample			5th Liter Sample		
Sample Location Code	Sample Date	Tier	Category	Building Plumbing	Service Line	Tap Type	Lead Result mg/L	Copper Result mg/L	Lab Sample Number	Lead Result mg/L	Copper Result mg/L	Lab Sample Number
JPb46	6/25/2019		1 A	N/A	L	K	0.012	0.100	LI48039	0.012	0.000	LI48040
JPb41	6/26/2019		1 A	N/A	L	K	0.003	0.000	LI48038	0.003	0.000	LI48035
JPb30	6/26/2019		1 A	N/A	L	K	0.006	0.000	LI48035	0.003	0.000	LI48036
JPb13	6/27/2019		1 A	N/A	L	K	0.008	0.000	LI48034	0.005	0.000	LI48033
JBp4	6/27/2019		1 A	N/A	L	K	0.014	0.000	LI48031	0.012	0.000	LI48032
JPb27	6/27/2013		1 A	N/A	L	K	0.029	0.000	LI48030	0.059	0.000	LI48029
JBp37	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI48027	0.000	0.000	LI48028
JPb16	6/25/2019		1 A	N/A	L	K	0.005	0.000	LI48026	0.005	0.000	LI48025
JPb19	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI48022	0.000	0.000	LI48021
JPb18	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI48023	0.000	0.000	LI48024
JPb36	6/26/2019		1 A	N/A	L	K	0.013	0.000	LI48019	0.005	0.000	LI48020
JPb39	6/26/2019		1 A	N/A	L	K	0.023	0.000	LI48017	0.008	0.000	LI48017
JPb7	6/25/2019		1 A	N/A	L	K	0.035	0.000	LI48016	0.022	0.000	LI48015



7/10/2019

Sample Location Code	Sample Date	Tier	Category	Building Plumbing	Service Line	Tap Type	1st Liter Sample		Lab Sample Number	5th Liter Sample		Lab Sample Number
							Lead Result mg/L	Copper Result mg/L		Lead Result mg/L	Copper Result mg/L	
JPb11	6/27/2019		1 A	N/A	L	K	0.008	0.000	LI48014	0.031	0.000	LI48013
JPb32	6/25/2019		1 A	N/A	L	K	0.021	0.000	LI48012	0.013	0.000	LI48011
JPb5	6/26/2019		1 A	N/A	L	K	0.003	0.000	LI48009	0.002	0.000	LI48010
JPb9	6/25/2019		1 A	N/A	L	K	0.005	0.000	LI48008	0.003	0.000	LI48007
JPb58	6/26/2019		1 A	N/A	L	K	0.004	0.000	LI48005	0.000	0.000	LI48006
JPb54	6/26/2019		1 A	N/A	L	K	0.004	0.000	LI48004	0.011	0.000	LI48003
JPb52	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI48002	0.000	0.000	LI48001
JPb40	6/28/2019		1 A	N/A	L	K	0.007	0.000	LI47999	0.007	0.000	LI48000
JPb23	6/26/2019		1 A	N/A	L	K	0.001	0.000	LI47997	0.000	0.000	LI47998
JPb8	6/27/2019		1 A	N/A	L	K	0.022	0.000	LI47995	0.024	0.000	LI47996
JPb20	6/25/2019		1 A	N/A	L	K	0.005	0.000	LI47994	0.012	0.000	LI47993
JPb38	6/24/2019		1 A	N/A	L	K	0.007	0.000	LI47991	0.005	0.000	LI47992
JPb43	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI47990	0.000	0.000	LI47989

7/10/2019

Sample Location Code	Sample Date	Tier	Category	Building Plumbing	Service Line	Tap Type	1st Liter Sample		Lab Sample Number	5th Liter Sample		Lab Sample Number
							Lead Result mg/L	Copper Result mg/L		Lead Result mg/L	Copper Result mg/L	
JPb48	6/27/2019		1 A	N/A	L	K	0.004	0.000	LI47988	0.005	0.000	LI47987
JPb44	6/25/2019		1 A	N/A	L	K	0.003	0.000	LI47985	0.003	0.000	LI47986
JPb42	6/26/2019		1 A	N/A	L	K	0.000	0.000	LI47983	0.000	0.000	LI47984
JPb51	6/24/2019		1 A	N/A	L	K	0.012	0.000	LI47981	0.017	0.000	LI47982
JPb60	6/27/2019		1 A	N/A	L	K	0.004	0.000	LI47979	0.021	0.000	LI47980
JPb22	6/25/2019		1 A	N/A	L	K	0.003	0.000	LI47977	0.002	0.000	LI47978
JPb33	6/25/2019		1 A	N/A	L	K	0.015	0.000	LI47975	0.006	0.000	LI47976
JPb26	6/25/2019		1 A	N/A	L	K	0.004	0.050	LI47973	0.002	0.060	LI47974
JPb49	6/24/2019		1 A	N/A	L	K	0.011	0.000	LI47971	0.019	0.000	LI47972
JPb28	6/27/2019		1 A	N/A	L	K	0.002	0.000	LI47969	0.002	0.000	LI47970
JPb34	6/29/2019		1 A	N/A	L	K	0.001	0.000	LI47967	0.001	0.000	LI47968
JPb50	6/26/2019		1 A	N/A	L	K	0.010	0.000	LI47965	0.036	0.000	LI47966
JPb1	6/25/2019		1 A	N/A	L	K	0.000	0.000	LI47963	0.000	0.000	LI47964



7/10/2019

Sample Location Code	Sample Date	Tier	Category	Building Plumbing	Service Line	Tap Type	1st Liter Sample		Lab Sample Number	5th Liter Sample		Lab Sample Number
							Lead Result mg/L	Copper Result mg/L		Lead Result mg/L	Copper Result mg/L	
JPb47	6/24/2019		1 A	N/A	L	K	0.044	0.000	LI47961	0.023	0.000	LI47962
JPb17	6/27/2019		1 A	N/A	L	K	0.000	0.000	LI47959	0.000	0.000	LI47960
JPb24	6/26/2019		1 A	N/A	L	K	0.002	0.000	LI47958	0.003	0.000	LI47957
JPb14	6/26/2019		1 A	N/A	L	K	0.006	0.000	LI47955	0.007	0.000	LI47956
JPb55	6/26/2019		1 A	N/A	L	K	0.000	0.000	LI47951	0.000	0.000	LI47952
JPb60	6/27/2019		1 A	N/A	L	K	0.002	0.000	LI47953	0.003	0.000	LI47954
JPb15	6/25/2019		1 A	N/A	L	K	0.009	0.000	LI47949	0.008	0.000	LI47950
JPb29	6/25/2019		1 A	N/A	L	K	0.014	0.000	LI47947	0.018	0.000	LI47948



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1. Supply Name: Benton Harbor Water  
2. County: Berrien 3. WSSN: 0600  
4. Population: 9,639 5. Monitoring Period: From: 7/1/2019 To: 12/31/2019  
6. Minimum # of Samples Required: \_\_\_\_\_ 7. # of Samples Taken: 40  
8. Name of Certified Laboratory: 8 to MDEQ the rest to 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"><li>• Tier 1 sites must be used unless insufficient Tier 1 sites available.</li><li>• If insufficient Tier 1 sites available, then Tier 2 sites must be used.</li><li>• If insufficient Tier 2 sites, then Tier 3 sites must be used.</li><li>• If no Tier 1, 2, or 3 sites are available, sites must be representative of plumbing materials typically found throughout the water system.</li></ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed): <u>Identify by New* or Newcode Previous EGLE Code</u>

For more information see *Instructions* item 11 "Tier and Sample Category" at the end of the document.

Comments:

I am sorry, I use Excel for all data, 3 tables attached in landscape print  
This word document I cannot edit  
I did not attach EGLE Sample Results (7 of 8)  
Eurofins Sample reports attached in their entire form (Eurofins Rule).

10. SIGNATURE:

Name: Mike O'Malley  
Benton Harbor Water  
Title: Operator in Charge

Signature: [Signature]  
Phone: (269) 363-0535 Date: 1/9/20



## 11. TAP SAMPLING DATA

Use additional sheets as needed. Sheet 1 of 3.

Water Supply Name: Benton Harbor

WSSN: 0600

Lab Sample Numbers ~~at~~  
 with only numbers are  
 from Eurofins

Sample Location * was sampled before; and Past EGLE Code	Sample Date	Tier (1,2,3,OT) 1	Category (see below) <sup>2</sup>	Building Plumbing (L,C,G,P) <sup>3</sup>	Service Line (L,C,G,P) <sup>3</sup>	Tap Type (K,B) <sup>4</sup>	1 <sup>st</sup> Liter Sample			5 <sup>th</sup> Liter Sample		
							Lead ug/L	Copper mg/L	Lab Sample Number	Lead ug/L	Copper mg/L	Lab Sample Number
OctPb14	11/12/2019	1	A	N/A	L or PSLR	K	0	8.6	4488794	0		4488795
JPb 29*	12/2/2019	1	A	N/A	L or PSLR	K	0	2.4	4512569	0	2.1	4512570
JPb 4*	12/10/2019	1	A	N/A	L or PSLR	K	9.2	15	4516476	6.3	2.5	4516477
JPb 27*	12/10/2019	1	A	N/A	L or PSLR	K	33	5.1	4516488	21	2.8	4516489
JPb 39*	12/17/2019	1	A	N/A	L or PSLR	K	10	8.6	4523031	7.8	3.4	4523032
OctPb12* JPb22	11/7/2019	1	A	N/A	L or PSLR	K	4.4	2.5	4488796	3.9	3.6	4488797
CCNPb 28* JPb48	11/29/2019	1	A	N/A	L or PSLR	K	3.1	11	4512929	3.1	11	4512550
NPb 10* JPb47	12/4/2019	1	A	N/A	L or PSLR	K	72	7.8	4512571	39	11	4512572
NPb12* JPb50	12/9/2019	1	A	N/A	L or PSLR	K	38	3.6	4512565	24	1.6	4512566
NPb 13* JPb51	12/9/2019	1	A	N/A	L or PSLR	K	8.6	4	4512563	5.3	2.1	4512563
NPb 4* JPb29	12/2/2019	1	A	N/A	L or PSLR	K	22	3.4	4512551	32	5.1	4512552
NPb 5* JPb32	12/2/2019	1	A	N/A	L or PSLR	K	10	15	4512553	12	1.8	4512554
NPb 17* JPb8	12/9/2019	1	A	N/A	L or PSLR	K	23	53	4512575	9.4	2.1	4512576
NPb 16* JPb7	12/10/2019	1	A	N/A	L or PSLR	K	25	1.6	4512573	18	0	4512574

Sample Codes w/ LIXxxxx are from EGLE Lab Reports

Sample Location * was sampled before, and Past EGLE Code	Sample Date	Tier (1,2,3,OT) 1	Category (see below) <sup>2</sup>	Building Plumbing (L,C,G,P) <sup>3</sup>	Service Line (L*,C,G,P) <sup>3</sup>	Tap Type (K,B) <sup>4</sup>	1 <sup>st</sup> Liter Sample						5 <sup>th</sup> Liter Sample			
							Lead		Copper		Lab Sample Number	Lead		Copper		Lab Sample Number
							ug/L		mg/L			ug/L		mg/L		
OctPb1 * JPb1	11/1/2019	1	A	N/A	L or PSLR	K		0		0	L174912		0		0	L174911
OctPb2 * JPb14	10/29/2019	1	A	N/A	L or PSLR	K		7		0	L174907		7		0	L174908
OctPb3	11/1/2019	1	A	N/A	L or PSLR	K		4		0	L174909		3		0	L174910
OctPb5 * JPb20	10/26/2019	1	A	N/A	L or PSLR	K		4		0	L174916		4		0	L174915
OctPb6 * JPb60	10/29/2019	1	A	N/A	L or PSLR	K		2		0	L174914		5		0	L174913
OctPb9	10/29/2019	1	A	N/A	L or PSLR	K		2		0	L174930		2		0	L174929
OctPb10	10/25/2019	1	A	N/A	L or PSLR	K		2		0	L174928		0		0	L174927
CCNPb 7	12/4/2019	1	A	N/A	L or PSLR	K		3.4		12	4512555		1.9		1.8	4512556
CCNPb 34	12/1/2019	1	A	N/A	L or PSLR	K		0		7.2	4512557		0		8.5	4512558
CCNPb 29	12/3/2019	1	A	N/A	L or PSLR	K		8.4		16	4512559		1.6		7.3	4512560
CCNPb25	12/8/2019	1	A	N/A	L or PSLR	K		9.3		3.3	4512561		1.8		1.5	4512562
OctPb 11	12/2/2019	1	A	N/A	L or PSLR	K		0		0	4512567		0		1.5	4512568
CCNPb 5	12/11/2019	1	A	N/A	L or PSLR	K		3.6		2.5	4546488		2.2		4	4546489
SCT 1	12/12/2019	1	A	N/A	L or PSLR	K		0		3.4	4516480		0		1.4	4516481
SCT 3	12/12/2019	1	A	N/A	L or PSLR	K		0		3	4516482		0		2	4516483
SCT 5	12/12/2019	1	A	N/A	L or PSLR	K		0		7.1	4516484		0		6	4516485



Sample Location * was sampled before; and Past EGGLE Code	Sample Date	Tier (1,2,3,OT) 1	Category (see below) <sup>2</sup>	Building Plumbing (L,C,G,P) <sup>3</sup>	Service Line (L,C,G,P) <sup>3</sup>	Tap Type (K,B) <sup>4</sup>	1 <sup>st</sup> Liter Sample				5 <sup>th</sup> Liter Sample			
							Lead ug/L	Copper mg/L	Lab Sample Number	Lead ug/L	Copper mg/L	Lab Sample Number		
CCNPb 31	12/15/2019	1	A	N/A	L or PSLR	K	0	28	4516486	0	2	4516487		
CCNPb 1	12/10/2019	1	A	N/A	L or PSLR	K	4.9	4.1	4516490	11	2.8	4516491		
CCNPb 16	12/15/2019	1	A	N/A	L or PSLR	K	3.7	18	4516492	14	2.9	4596493		
CCNPb 17	12/16/2019	1	A	N/A	L or PSLR	K	5.6	4	4523023	0	1.6	4523024		
TGPb 1	12/17/2019	1	A	N/A	L or PSLR	K	2.3	1.2	4523025	19	4.8	4523026		
EPDPb 8	12/18/2019	1	A	N/A	L or PSLR	K	19	4.8	4523027	40	2.2	4523028		
EPDPb 9	12/18/2019	1	A	N/A	L or PSLR	K	18	6.7	4523029	11	1.6	4523030		
EPDPb 1	12/20/2019	1	A	N/A	L or PSLR	K	0	4.9	4523033	0	1.6	4523034		
EPDPb 4	12/21/2019	1	A	N/A	L or PSLR	K	19	3.6	4523041	30	2	4523042		



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1. Supply Name: Benton Harbor  
2. County: Berrien  
3. WSSN: 0600  
4. Population: 9,670  
5. Monitoring Period: From: 1/1/2020 To: 6/30/2020  
6. Minimum # of Samples Required: 60  
7. # of Samples Taken: 63  
8. Name of Certified Laboratory: 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	
X		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.
X	<input type="checkbox"/>	Did you prioritize sample collection according to the following: <ul style="list-style-type: none"><li>• Tier 1 sites must be used unless insufficient Tier 1 sites available.</li><li>• If insufficient Tier 1 sites available, then Tier 2 sites must be used.</li><li>• If insufficient Tier 2 sites, then Tier 3 sites must be used.</li><li>• If no Tier 1, 2, or 3 sites are available, sites must be representative of plumbing materials typically found throughout the water system.</li></ul>
X	X	Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed):
Comments: In order to meet the extra number of samples (60) that EGLE is demanding, we had to reach out to homes that may have never agreed to sample before. We as a community water supply had to depend upon outside agencies to fill the pool to the extra required.		

10. SIGNATURE:

Name: Mike O'Malley

Signature:

Title: Water Operator IN Charge

Phone: (269) 363-0575

Date: 6/30/20



## 11. TAP SAMPLING DATA

Sheet 1 of 3

Sample Location	Sample Date	Tier	Category	Building	Service Line Very Likely = known Likely = lead nearby Unknown = lead in area	Tap Type	1 <sup>st</sup> Liter Sample			5 <sup>th</sup> Liter Sample		
							Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L ug/L	Lab Sample Number
RP2	4/30/2020	1	A	Unknown	Likely	Kitchen	1.4	0	4621306	0	1.1	4621325
RP3	4/28/2020	1	A	Unknown	very Likely	Kitchen	1.2	0	4621307	1.6	0	4621326
RP4	4/28/2020	1	A	Unknown	Likely	Kitchen	0	2.5	4621308	0	1.5	4621327
RP5	4/29/2020	1	A	Unknown	PLSLR	Kitchen	0	9	4621309	0	6.1	4621328
RP6	4/29/2020	1	A	Unknown	Likely	Kitchen	0	2.5	4621310	0	1.4	4621329
RP7	4/28/2020	1	A	Unknown	very Likely	Kitchen	5.2	150	4621311	5.1	28	4621330
RP9	4/29/2020	1	A	Unknown	Possible	Kitchen	0	2.1	4621312	0	2.6	4621331
RP10	4/29/2020	1	A	Unknown	very Likely	Kitchen	3	1.3	4621313	9.2	1.9	4621332
RP11	4/29/2020	1	A	Unknown	Possible	Kitchen	0	5.7	4621314	0	4	4621333
RP13	4/29/2020	1	A	Unknown	Possible	Kitchen	1.3	3	4621315	0	0	4621334
RP14	4/29/2020	1	A	Unknown	Likely	Kitchen	7.2	3	4621316	10	1.6	4621335
RP15	4/29/2020	1	A	Unknown	very Likely	Kitchen	1.7	0	4621317	0	0	4621336
RP16	4/29/2020	1	A	Unknown	Possible	Kitchen	440	130	4621318	1	2.7	4621337
RP17	4/28/2020	1	A	Unknown	Possible	Kitchen	3.5	17	4621319	5.1	8.6	4621338
RP19	4/28/2020	1	A	Unknown	very Likely	Kitchen	0	8.9	4621320	0	7.2	4621339
RP21	4/29/2020	1	A	Unknown	very Likely	Kitchen	0	2.3	4621321	0	1.7	4621340
RP23	4/30/2020	1	A	Unknown	very Likely	Kitchen	0	17	4621322	0	4.2	4621341
RP24	4/28/2020	1	A	Unknown	very Likely	Kitchen	0	2.3	4621323	0	2.4	4621342
RP25	4/29/2020	1	A	Unknown	Likely	Kitchen	3	1.3	4621324	5.1	1.3	4621343
RPb1	5/6/2020	1	A	Unknown	Possible	Kitchen	1.1	9.4	4624126	0	2.5	4624146
RPb2	5/6/2020	1	A	Unknown	very Likely	Kitchen	1.1	0	4624127	2	0	4624147
RPb3	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	37.0	4624128	0.0	9.6	4624148
RPb4	5/6/2020	1	A	Unknown	Possible	Kitchen	1.8	13.0	4624129	3.4	2.6	4624149
RPb5	5/6/2020	1	A	Unknown	Possible	Kitchen	0.0	8.7	4624130	0.0	8.3	4624150



## 11. TAP SAMPLING DATA

Sheet 2 of 3.

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1 <sup>st</sup> Liter Sample				5 <sup>th</sup> Liter Sample			
		1	A	Plumbing  Unknown	Very Likely = known Likely = lead nearby Unknown = Lead in area	Kitchen	Lead	Copper	Lab Sample Number	Lead	Copper	Lab Sample Number		
							ug/L	ug/L		ug/L	mg/L ug/L			
rpbb6	5/8/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624131	1.3	1.2	4624151		
rpbb7	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	3.2	4624132	0.0	1.1	4624152		
rpbb8	5/7/2020	1	A	Unknown	very Likely	Kitchen	21.0	4.4	4624133	4.2	1.5	4624153		
rpbb9	5/7/2020	1	A	Unknown	very Likely	Kitchen	3.6	1.1	4624134	7.9	4.4	4624154		
rpbb10	5/7/2020	1	A	Unknown	likely	Kitchen	5.7	2.3	4624135	14.0	2.0	4624155		
rpbb11	5/7/2020	1	A	Unknown	very Likely	Kitchen	9.2	2.0	4624136	23.0	2.6	4624156		
rpbb12	5/7/2020	1	A	Unknown	very Likely	Kitchen	8.5	6.4	4624137	5.3	1.4	4624157		
rpbb13	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	4.1	4624138	0.0	1.7	4624158		
rpbb15	5/7/2020	1	A	Unknown	very Likely	Kitchen	6.2	48.0	4624139	4.3	50.0	4624159		
rpbb16	5/7/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624140	1.3	1.1	4624160		
rpbb17	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.4	4624141	0.0	5.1	4624161		
rpbb18	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.2	4624142	0.0	1.8	4624162		
rpbb19	5/5/2020	1	A	Unknown	very Likely	Kitchen	0.0	2.2	4624143	0.0	1.3	4624163		
rpbb20	5/7/2020	1	A	Unknown	very Likely	Kitchen	100.0	5.4	4624144	5.3	1.0	4624164		
rpbb21	5/8/2020	1	A	Unknown	very Likely	Kitchen	3.5	230.0	4624145	1.4	20.0	4624165		
RPC 1	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	10	4629473	0	2	4629490		
RPC 2	5/13/2020	1	A	Unknown	very Likely	Kitchen	2.4	2.1	4629474	2	1.6	4629491		
RPC 3	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.5	2.6	4629475	1.5	0	4629492		
RPC 4	5/12/2020	1	A	Unknown	very Likely	Kitchen	29	4.4	4629476	11	1.6	4629493		
RPC 5	5/12/2020	1	A	Unknown	very Likely	Kitchen	0	3.2	4629477	0	2.9	4629494		
RPC 6	5/13/2020	1	A	Unknown	Likely	Kitchen	0	18	4629478	0	14	4629495		
RPC 7	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	2.5	4629479	0	2.8	4629496		
RPC 8	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.5	9.1	4629480	0	2	4629497		
RPC 9	5/13/2020	1	A	Unknown	very Likely	Kitchen	22	7.3	4629481	18	7.5	4629498		
RPC 10	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	0	4629482	0	0	4629499		
RPC 11	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	7.8	4629483	0	1.4	4629500		



11. TAP SAMPLING DATA

Sheet 3 of 3

Sample Location	Sample Date	Tier	Category	Building	Service Line Very Likely = known Likely = lead nearby Unknown = lead in area	Tap Type	1 <sup>st</sup> Liter Sample				5 <sup>th</sup> Liter Sample			
							Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L	Lab Sample Number	Lead ug/L	Copper mg/L
RPC 12	5/13/2020	1	A	Unknown	very Likely	Kitchen	2.2	5	4629484	2.4	2.7	4629501		
RPC 13	5/12/2020	1	A	Unknown	Likely	Kitchen	0	1.1	4629485	0	0	4629502		
RPC 14	5/13/2020	1	A	Unknown	very Likely	Kitchen	0	0	4629486	8.3	2	4629503		
RPC 15	5/13/2020	1	A	Unknown	very Likely	Kitchen	1.4	36	4629487	1.3	2.9	4629504		
RPC 16	5/13/2020	1	A	Unknown	very Likely	Kitchen	44	3.7	4629488	81	1.8	4629505		
RPC 17	5/13/2020	1	A	Unknown	very Likely	Kitchen	6.4	2.9	4629489	4.3	1.5	4629506		
RPd 1	6/9/2020	1	A	Unknown	Likely	Kitchen	23	1.8	4651648	2.4	1.3	4651655		
RPd 2	6/10/2020	1	A	Unknown	Likely	Kitchen	3.4	33	4651649	2.9	2.6	4651656		
RPd 3	6/10/2020	1	A	Unknown	very Likely	Kitchen	11	45	4651650	3.9	28	4651657		
RPd 4	6/10/2020	1	A	Unknown	very Likely	Kitchen	4.4	5.6	4651651	6.6	7.5	4651658		
RPd 5	6/10/2020	1	A	Unknown	very Likely	Kitchen	1.4	3.9	4651652	1.6	1.2	4651659		
RPd 6	6/10/2020	1	A	Unknown	Likely	Kitchen	0	2.2	4651653	0	2.1	4651660		
RPd 7	6/10/2020	1	A	Unknown	very Likely	Kitchen	17	28	4651654	23	26	4651661		



**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 Benton Harbor MI.  
2. County: Berrien 3. WSSN: 0600  
4. Population: 8800 5. Monitoring Period: From: 6/1/2018 To: 9/30/2018  
6. Minimum # of Samples Required: 30 7. # of Samples Taken: 30  
8. Name of Certified Laboratory: Eurofins Eaton Analytical, 210 Hill St, South Bend IN.

**9. SAMPLE CRITERIA:**

Yes	No	NA	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all samples from Tier 1 sites? Yes to our knowledge
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Did you prioritize sample collection according to the following: <ul style="list-style-type: none"><li>• Tier 1 sites must be used unless insufficient Tier 1 sites available.</li><li>• If insufficient Tier 1 sites available, then Tier 2 sites must be used.</li><li>• If insufficient Tier 2 sites, then Tier 3 sites must be used.</li><li>• If no Tier 1, 2, or 3 sites are available, sites must be representative of plumbing materials typically found throughout the water system.</li></ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	If Tier 1 or 2 sites used, were at least 50% of samples from sites with lead service lines? <b>If no, explain</b> (attach additional pages if needed): To the best of our knowledge these sites had lead service lines, even if City Service Lines only.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Were the same sampling sites used as in the previous monitoring period? <b>If no, explain</b> (attach additional pages if needed): Many of the homes in the original sampling pool were gone, vacant or refused to participate.

For more information see *Instructions* item 11 "Tier and Sample Category" on pages 5-6.

Additional comments: There were 26 sites used from the 2015 sampling period. 2 of those sites were removed from the sample list since their service lines had been replaced with copper, leaving 24 available from 2015. Many former participants chose not to help us (mostly by not leaving a sample for us to pick up). 6 additional sites were added to the list to make up the required 30.

**10. SIGNATURE:**

Name: Michael O'Malley Signature: [Signature]  
Title: Benton Harbor Water Supt Phone: (269) 363-0575 Date: 10/7/18



## 11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name: City of Benton Harbor

WSSN:

0600

Sample Location	Sample Date	Tier (1,2,3,O) <sup>1</sup>	Category <sup>2</sup> (see below)	Service Line (L,C,G,P) <sup>3</sup>	Building Plumbing (L,C,G,P) <sup>3</sup>	Tap Type (K,B) <sup>4</sup>	Lead <input type="checkbox"/> mg/L <input checked="" type="checkbox"/> ug/L	Copper <input type="checkbox"/> mg/L <input checked="" type="checkbox"/> ug/L	Lab Sample Number
BH2	9/18/18	1	H	L *	NA	B	0	2.3	4064980
BH10	9/18/18	1	H	L *	NA	B	0	61	4067554
BH15	9/18/18	1	H	L *	NA	B	0	2.3	4064969
BH21	9/18/18	1	H	L *	NA	B	0	16	4064967
BHP3	9/24/18	1	H	L *	NA	B	0	60	4067562
BH24	9/18/18	1	H	L *	NA	B	2	22	4064978
BH20	9/18/18	1	H	L *	NA	B	2.4	72	4064977
BH17	9/18/18	1	H	L *	NA	B	2.5	4.1	4067553
BH3	9/18/18	1	H	L *	NA	B	2.7	9.3	4064973
BH8	9/18/18	1	H	L *	NA	B	4.1	4.4	4064975
BH33	9/18/18	1	H	L *	NA	B	4.4	4.2	4064970
BH29	9/18/18	1	H	L *	NA	B	4.4	18	4064981
BH12	9/18/18	1	H	L *	NA	B	4.7	14	4067552
BH14	9/18/18	1	H	L *	NA	B	4.9	2.5	4064968
BHM1	9/24/18	1	H	L *	NA	B	5.5	4.1	4064972
BHP2	9/23/18	1	H	L *	NA	B	5.8	3.3	4067558
BH32	9/19/18	1	H	L *	NA	B	10	15	4067561
BH25	9/19/18	1	H	L *	NA	B	11	62	4064964
BH28	9/18/18	1	H	L *	NA	B	13	47	4067556
BH30	9/18/18	1	H	L *	NA	B	14	7	4064976
BH6	9/18/18	1	H	L *	NA	B	14	2	4064971
BH5	9/18/18	1	H	L *	NA	B	16	8.4	4064974
BH1	9/19/18	1	H	C/G	NA	B	17	14	4064979
							19	6.4	4064965



BH31	9/18/18	1	H	L *	NA	B	19	2.1	4064966
BH16	9/18/18	1	H	L *	NA	B	21	86	4064982
BHP1	9/24/18	1	H	L *	NA	B	22	6.2	4067560
BHD1	9/24/18	1	H	L *	NA	B	29	48	4067559
BH23	9/18/18	1	H	L *	NA	B	40	11	4067557
BH19	9/18/18	1	H	L *	NA	B	60	1.5	4067555

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	E	Multi Family or buildings w/ lead service line	L = Lead C = Copper G = Galvanized P = Plastic	K = Kitchen Sink B = Bathroom Sink O = Other (not an option for residential sites)
	B	Single Family w/ copper plumbing with lead solder installed after 1982 and before 1989		F	Multi Family or buildings w/ copper plumbing with lead solder installed after 1982 and before 1989		
	C	Single Family w/ interior lead plumbing		G	Multi Family or buildings w/ interior lead plumbing		
	D	Multi-family Residence (MFR) if MFRs comprise at least 20% of total service connections.	Tier 3	H	Single Family w/ copper plumbing with lead solder installed before 1983		
	* If a supply has lead service lines (LSL), at least 50% of sites must have a LSL. Sites with lead goosenecks/pigtails are Tier 1 sites.		Other	OT	If no Tier 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply.		

#### Notes: BH

There were not enough data lines. I had to add enough for 30 samples. And nowhere was a question regarding 90<sup>th</sup> percentile: The 90<sup>th</sup> 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 services are:

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 beyond the Curb Stop Valve.

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.

*[Signature]*  
10/7/18