



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: Berrien 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	
☒	☐	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.
☒	☐	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.
☒	☒	Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed): <u>You must No Mostly - only a couple of sites from 2018 met the new sample criteria Tiers 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 in 2019 to 9,960. 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

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
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 some or all lead and copper samples from sites WITH LEAD SERVICE LINES. All other supplies should use Form B.

Yes	No		
☒	☐	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.	For more information see <i>Instructions</i> item 11 "Tier and Sample Category" at the end of the document.
☒	☐	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.	
☒	☐	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>	

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
Title: Benton Harbor Water 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 #
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) ²	Building Plumbing (L,C,G,P) ³	Service Line (L*,C,G,P) ³	Tap Type (K,B) ⁴	1 st Liter Sample			5 th 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	8	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

Table Pg 2 of 3

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) ²	Building Plumbing (L,C,G,P) ³	Service Line (L*,C,G,P) ³	Tap Type (K,B) ⁴	1 st Liter Sample				5 th Liter Sample					
							Lead ug/L	Copper mg/L	Lab Sample Number	Lead ug/L	Copper mg/L	Lab Sample Number				
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) ²	Building Plumbing (L,C,G,P) ³	Service Line (L*,C,G,P) ³	Tap Type (K,B) ⁴	1 st Liter Sample			5 th 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

MI 0600 Benton Harbor Lead & Copper June 2020

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

Revised




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1. Supply Name: Benton Harbor
2. County: Berrien 3. WSSN: 0600
4. Population: 9670 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, South Bend IN.

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
☒	☐
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.	
☒	☐
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.	
☐	☒
Were the same sampling sites used as in the previous monitoring period? If no, explain (attach additional pages if needed): <u>I said yes & no because some were & some were not</u>	
Comments: There were some sampling locations that were sampled in previous years. Most were likely new locations. <u>This preformatted EGLE version in word document is very hard to use. Try it once & see what I mean</u>	

10. SIGNATURE:

Name: Mike O'Malley Signature: 
Title: Water Operator in Charge Phone: (269) 363-0575 Date: 7/2/20

NI 0600 Benton Harbor Lead-Copper 1/1/20 to 6/30/20 Revised

11. TAP SAMPLING DATA

Sheet 1 of 3

Revised

[Signature]

Sample Location	Sample Date	Tier	Category	Building	Service Line Very Likely = known Likely = lead nearby Unknown = lead in area	Tap Type	1 st Liter Sample			5 th Liter Sample		
							Lead	Copper	Lab Sample Number	Lead	Copper	Lab Sample Number
							ug/L	ug/L		ug/L	mg/L	
RP2	4/30/2020	1	A	Unknown	Likely	Kitchen	0	1.4	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	3.8	6.8	4621324	5.1	1.3	4621343
rbp1	5/6/2020	1	A	Unknown	Possible	Kitchen	1.1	9.4	4624126	0	2.5	4624146
rbp2	5/6/2020	1	A	Unknown	very Likely	Kitchen	1.1	0	4624127	2	0	4624147
rbp3	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	37.0	4624128	0.0	9.6	4624148
rbp4	5/6/2020	1	A	Unknown	Possible	Kitchen	1.8	13.0	4624129	3.4	2.6	4624149
rbp5	5/6/2020	1	A	Unknown	Possible	Kitchen	0.0	8.7	4624130	0.0	8.3	4624150

If you tried to fill in page 1 of the report trying this page for lead & copper!

11. TAP SAMPLING DATA
 Sheet 2 of 3

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1 st Liter Sample			5 th Liter Sample		
							Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L	Lab Sample Number
rpb6	5/8/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624131	1.3	1.2	4624151
rpb7	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	3.2	4624132	0.0	1.1	4624152
rpb8	5/7/2020	1	A	Unknown	very Likely	Kitchen	21.0	4.4	4624133	4.2	1.5	4624153
rpb9	5/7/2020	1	A	Unknown	very Likely	Kitchen	3.6	1.1	4624134	7.9	4.4	4624154
rpb10	5/7/2020	1	A	Unknown	likely	Kitchen	5.7	2.3	4624135	14.0	2.0	4624155
rpb11	5/7/2020	1	A	Unknown	very Likely	Kitchen	9.2	2.0	4624136	23.0	2.6	4624156
rpb12	5/7/2020	1	A	Unknown	very Likely	Kitchen	8.5	6.4	4624137	5.3	1.4	4624157
rpb13	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	4.1	4624138	0.0	1.7	4624158
rpb15	5/7/2020	1	A	Unknown	very Likely	Kitchen	6.2	48.0	4624139	4.3	50.0	4624159
rpb16	5/7/2020	1	A	Unknown	very Likely	Kitchen	2.4	1.7	4624140	1.3	1.1	4624160
rpb17	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.4	4624141	0.0	5.1	4624161
rpb18	5/7/2020	1	A	Unknown	very Likely	Kitchen	0.0	1.2	4624142	0.0	1.8	4624162
rpb19	5/5/2020	1	A	Unknown	very Likely	Kitchen	100.0	2.2	4624143	0.0	1.3	4624163
rpb20	5/7/2020	1	A	Unknown	very Likely	Kitchen	3.5	5.4	4624144	5.3	1.0	4624164
rpb21	5/8/2020	1	A	Unknown	very Likely	Kitchen	0	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 *Revised*

Sample Location	Sample Date	Tier	Category	Building	Service Line	Tap Type	1 st Liter Sample			5 th Liter Sample		
							Lead ug/L	Copper ug/L	Lab Sample Number	Lead ug/L	Copper mg/L ug/L	Lab Sample Number
RPC 12	5/13/2020	1	A	Unknown	Very Likely = known	Kitchen	2.2	5	4629484	2.4	2.7	4629501
RPC 13	5/12/2020	1	A	Unknown	Likely = lead nearby	Kitchen	0	1.1	4629485	0	0	4629502
RPC 14	5/13/2020	1	A	Unknown	Unknown = lead in area	Kitchen	0	0	4629486	8.3	2	4629503
RPC 15	5/13/2020	1	A	Unknown		Kitchen	1.4	36	4629487	1.3	2.9	4629504
RPC 16	5/13/2020	1	A	Unknown		Kitchen	44	3.7	4629488	81	1.8	4629505
RPC 17	5/13/2020	1	A	Unknown		Kitchen	6.4	2.9	4629489	4.3	1.5	4629506
RPC 1	6/9/2020	1	A	Unknown		Kitchen	23	1.8	4651648	2.4	1.3	4651655
RPC 2	6/10/2020	1	A	Unknown		Kitchen	3.4	33	4651649	2.9	2.6	4651656
RPC 3	6/10/2020	1	A	Unknown		Kitchen	11	45	4651650	3.9	28	4651657
RPC 4	6/10/2020	1	A	Unknown		Kitchen	4.4	5.6	4651651	6.6	7.5	4651658
RPC 5	6/10/2020	1	A	Unknown		Kitchen	1.4	3.9	4651652	1.6	1.2	4651659
RPC 6	6/10/2020	1	A	Unknown		Kitchen	0	2.2	4651653	0	2.1	4651660
RPC 7	6/10/2020	1	A	Unknown		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	
☒	☐		Are all samples from Tier 1 sites? Yes to our knowledge
☒	☐		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.
☒	☐	☐	If Tier 1 or 2 sites used, were at least 50% of samples from sites with lead service lines? If no, explain (attach additional pages if needed): To the best of our knowledge these sites had lead service lines, even if City Service Lines only.
☐	☒		Were the same sampling sites used as in the previous monitoring period? If no, explain (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 (1,2,3,0) ¹	Category (see below) ²	Service Line (L,C,G,P) ³	Building Plumbing (L,C,G,P) ³	Tap Type (K,B) ⁴	Lead ☐ mg/L ☒ ug/L	Copper ☐ mg/L ☒ 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
BH11	9/18/18	1	H	L*	NA	B	2.7	9.3	4064973
BH3	9/18/18	1	H	L*	NA	B	4.1	4.4	4064975
BH8	9/18/18	1	H	L*	NA	B	4.4	4.2	4064970
BH33	9/18/18	1	H	L*	NA	B	4.4	18	4064981
BH29	9/18/18	1	H	L*	NA	B	4.7	14	4067552
BH12	9/18/18	1	H	L*	NA	B	4.9	2.5	4064968
BH14	9/18/18	1	H	L*	NA	B	5.5	4.1	4064972
BHM1	9/24/18	1	H	L*	NA	B	5.8	3.3	4067558
BHP2	9/23/18	1	H	L*	NA	B	10	15	4067561
BH32	9/19/18	1	H	L*	NA	B	11	62	4064964
BH25	9/19/18	1	H	L*	NA	B	13	47	4067556
BH28	9/18/18	1	H	L*	NA	B	14	7	4064976
BH30	9/18/18	1	H	L*	NA	B	14	2	4064971
BH6	9/18/18	1	H	L*	NA	B	16	8.4	4064974
BH5	9/18/18	1	H	L*	NA	B	17	14	4064979
BH1	9/19/18	1	H	C/G	NA	B	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

Tier	Category	Description	Tier	Category	Description	Material	Tap Type
Tier 1	A	Single Family w/ lead service line	Tier 2	E	Multi Family or buildings w/ lead service line	L = Lead	K = Kitchen Sink
	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 = Copper	B = Bathroom Sink
	C	Single Family w/ interior lead plumbing		G	Multi Family or buildings w/ interior lead plumbing	G = Galvanized	O = Other (not an option for residential sites)
	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	P = Plastic	
	* 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.					If no Tier 1, 2, 3 sites, use sites representative of plumbing commonly found throughout the supply.	
	Other	OT					

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 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



Eaton Analytical

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

Benton Harbor MI 0600
Lead & Copper Results
Pool 1 to Eurofins
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

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4064964	BH 32	200.8	09/19/18 13:15	Client	09/21/18 08:45
4064965	BH 1	200.8	09/19/18 07:30	Client	09/21/18 08:45
4064966	BH 31	200.8	09/18/18 06:25	Client	09/21/18 08:45
4064967	BH 21	200.8	09/18/18 07:05	Client	09/21/18 08:45
4064968	BH 12	200.8	09/19/18 04:09	Client	09/21/18 08:45
4064969	BH 15	200.8	09/18/18 05:00	Client	09/21/18 08:45
4064970	BH 8	200.8	09/18/18 07:30	Client	09/21/18 08:45
4064971	BH 30	200.8	09/18/18 10:24	Client	09/21/18 08:45
4064972	BH 14	200.8	09/19/18 06:05	Client	09/21/18 08:45
4064973	BH 11	200.8	09/18/18 07:56	Client	09/21/18 08:45
4064974	BH 6	200.8	09/18/18 05:00	Client	09/21/18 08:45
4064975	BH 3	200.8	09/18/18 08:00	Client	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	09/18/18 07:00	Client	09/21/18 08:45
4064979	BH 5	200.8	09/18/18 08:00	Client	09/21/18 08:45
4064980	BH 2	200.8	09/18/18 05:30	Client	09/21/18 08:45
4064981	BH 33	200.8	09/19/18 05:15	Client	09/21/18 08:45
4064982	BH 16	200.8	09/17/18 04:00	Client	09/21/18 08:45

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 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 ask for written Approval

BH did not use

Page 1 of 7

the MD 20 Lab, the Lab using, would not have been done in time!

Page 3 of 11

Client Name: City of Benton Harbor

Report #: 430599

201 11²

Authorized Signature

Title

Client Name: City of Benton Harbor
Report #: 430599

10/04/2018

Date

Client Name: City of Benton Harbor

90113

Report #: 430599

Sampling Point: BH 32

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	62	ug/L	---	09/29/18 18:11	4064964
7439-92-1	Lead	200.8	15 !	1.0	11	ug/L	---	09/29/18 18:11	4064964

Sampling Point: BH 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	6.4	ug/L	---	09/29/18 18:13	4064965
7439-92-1	Lead	200.8	15 !	1.0	19	ug/L	---	09/29/18 18:13	4064965

Sampling Point: BH 31

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	2.1	ug/L	---	09/29/18 18:16	4064966
7439-92-1	Lead	200.8	15 !	1.0	4.9	ug/L	---	09/29/18 18:16	4064966

Sampling Point: BH 21

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	16	ug/L	---	09/29/18 18:18	4064967
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/18 18:18	4064967

Sampling Point: BH 12

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	---	09/29/18 18:20	4064968
7439-92-1	Lead	200.8	15 !	1.0	4.9	ug/L	---	09/29/18 18:20	4064968

Client Name: City of Benton Harbor

Page 1, 4

Report #: 430599

Sampling Point: BH 15

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	2.3	ug/L	---	09/29/18 18:23	4064969
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/18 18:23	4064969

Sampling Point: BH 8

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	4.2	ug/L	---	09/29/18 18:25	4064970
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L	---	09/29/18 18:25	4064970

Sampling Point: BH 30

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	2.0	ug/L	---	09/29/18 18:38	4064971
7439-92-1	Lead	200.8	15 !	1.0	14	ug/L	---	09/29/18 18:38	4064971

Sampling Point: BH 14

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	4.1	ug/L	---	09/29/18 18:45	4064972
7439-92-1	Lead	200.8	15 !	1.0	5.5	ug/L	---	09/29/18 18:45	4064972

Sampling Point: BH 11

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	9.3	ug/L	---	09/29/18 18:47	4064973
7439-92-1	Lead	200.8	15 !	1.0	2.7	ug/L	---	09/29/18 18:47	4064973

Client Name: City of Benton Harbor

Report #: 430599

Pool 1, 5

Sampling Point: BH 6

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	8.4	ug/L	---	09/29/18 18:50	4064974
7439-92-1	Lead	200.8	15 !	1.0	16	ug/L	---	09/29/18 18:50	4064974

Sampling Point: BH 3

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	44	ug/L	---	09/29/18 18:52	4064975
7439-92-1	Lead	200.8	15 !	1.0	4.1	ug/L	---	09/29/18 18:52	4064975

Sampling Point: BH 28

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	7.0	ug/L	---	09/29/18 18:55	4064976
7439-92-1	Lead	200.8	15 !	1.0	14	ug/L	---	09/29/18 18:55	4064976

Sampling Point: BH 20

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	72	ug/L	---	09/29/18 18:57	4064977
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L	---	09/29/18 18:57	4064977

Sampling Point: BH 24

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	22	ug/L	---	09/29/18 19:00	4064978
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L	---	09/29/18 19:00	4064978

Client Name: City of Benton Harbor

Pool 1,6

Report #: 430599

Sampling Point: BH 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	14	ug/L	---	09/29/18 19:02	4064979
7439-92-1	Lead	200.8	15 !	1.0	17	ug/L	---	09/29/18 19:02	4064979

Sampling Point: BH 2

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	2.3	ug/L	---	09/29/18 19:05	4064980
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/18 19:05	4064980

Sampling Point: BH 33

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	18	ug/L	---	09/29/18 19:12	4064981
7439-92-1	Lead	200.8	15 !	1.0	4.4	ug/L	---	09/29/18 19:12	4064981

Sampling Point: BH 16

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	86	ug/L	---	09/29/18 19:19	4064982
7439-92-1	Lead	200.8	15 !	1.0	21	ug/L	---	09/29/18 19:19	4064982

† 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:	*	^	!



Eaton Analytical

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

3rd Water
Lead & Copper Test
Pool 2

Deliver to Lab
9/24/18

Laboratory Report

Client: City of Benton Harbor
Attn: Michael O'Malley
200 East Wall Street
Benton Harbor, MI 49002

Report: 430776
Priority: Standard Written
Status: Final
PWS ID: MI0600

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4067552	BH29	200.8	09/18/18 03:15	Client	09/25/18 14:20
4067553	BH17	200.8	09/18/18 07:00	Client	09/25/18 14:20
4067554	BH10	200.8	09/18/18 07:00	Client	09/25/18 14:20
4067555	BH19	200.8	09/18/18 07:15	Client	09/25/18 14:20
4067556	BH25	200.8	09/19/18 07:15	Client	09/25/18 14:20
4067557	BH23	200.8	09/18/18 16:20	Client	09/25/18 14:20
4067558	BHM1	200.8	09/24/18 04:30	Client	09/25/18 14:20
4067559	BHD1	200.8	09/24/18 15:00	Client	09/25/18 14:20
4067560	BHP1	200.8	09/24/18 08:30	Client	09/25/18 14:20
4067561	BHP2	200.8	09/23/18 06:00	Client	09/25/18 14:20
4067562	BHP3	200.8	09/24/18 07:00	Client	09/25/18 14:20

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 Nathan Trowbridge at (574) 233-4777.

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

Notice: I did not ask for written approval

10/2/18

Authorized Signature

Title

10/04/2018

Date

Client Name: City of Benton Harbor
Report #: 430776

Client Name: City of Benton Harbor

Pool 23?

Report #: 430776

Sampling Point: BH29

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	14	ug/L	---	10/01/18 21:49	4067552
7439-92-1	Lead	200.8	15 !	1.0	4.7	ug/L	---	10/01/18 21:49	4067552

Sampling Point: BH17

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	4.1	ug/L	---	10/01/18 21:58	4067553
7439-92-1	Lead	200.8	15 !	1.0	2.5	ug/L	---	10/01/18 21:58	4067553

Sampling Point: BH10

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	61	ug/L	---	10/01/18 22:01	4067554
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/18 22:01	4067554

Sampling Point: BH19

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	1.5	ug/L	---	10/01/18 22:04	4067555
7439-92-1	Lead	200.8	15 !	1.0	60	ug/L	---	10/01/18 22:04	4067555

Sampling Point: BH25

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	47	ug/L	---	10/01/18 22:07	4067556
7439-92-1	Lead	200.8	15 !	1.0	13	ug/L	---	10/01/18 22:07	4067556

Client Name: City of Benton Harbor

Pool 2, 2

Report #: 430776

Sampling Point: BH23

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	11	ug/L	---	10/01/18 22:10	4067557
7439-92-1	Lead	200.8	15 !	1.0	40	ug/L	---	10/01/18 22:10	4067557

Sampling Point: BHM1

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	3.3	ug/L	---	10/01/18 22:13	4067558
7439-92-1	Lead	200.8	15 !	1.0	5.8	ug/L	---	10/01/18 22:13	4067558

Sampling Point: BHD1

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	48	ug/L	---	10/01/18 22:16	4067559
7439-92-1	Lead	200.8	15 !	1.0	29	ug/L	---	10/01/18 22:16	4067559

Sampling Point: BHP1

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	6.2	ug/L	---	10/01/18 22:19	4067560
7439-92-1	Lead	200.8	15 !	1.0	22	ug/L	---	10/01/18 22:19	4067560

Sampling Point: BHP2

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	15	ug/L	---	10/01/18 22:22	4067561
7439-92-1	Lead	200.8	15 !	1.0	10	ug/L	---	10/01/18 22:22	4067561

Client Name: City of Benton Harbor

Pool 2, 3

Report #: 430776

Sampling Point: BHP3

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	6.0	ug/L	---	10/01/18 22:30	4067562
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	10/01/18 22:30	4067562

† 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:	*	^	!



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER BUREAU

**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**

Issued under authority of 1976 PA 399 and Administrative Rules, as amended.

Failure to submit this information is a violation of the Act 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. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office at www.michigan.gov/deq, click on DEQ Location.

1. Water Supply Name: Benton Harbor Water
2. County: Berrien 3. WSSN: 0600
4. Population: 12,000 5. Monitoring Period: June 1, 2011 Sep 30, 2011
6. Minimum # of Samples Required: 30 7. # of Samples Taken: 23
8. Name of Certified Laboratory: MDEQ Drinking Water Laboratory #1

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☐	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more
information
see
Instructions
paragraph 11,
subparagraph
"Sample
Category."

Several sampling sites from the previous monitoring period, September 2008 were either: gone, vacant, un-occupied or non-responsive. Of the 33 samples collected in 2008 only 20 sites cooperated in this year's sampling. Three additional sites were added (water department crew) from the City of Benton Harbor with potential of having lead service lines. This potential is fairly well founded as many lead service lines are known to have existed on those streets as they have been removed through the years. It is the City of Benton Harbor's policy to replace lead service lines when they are exposed during leaks and other events. Lead lines have been found on the streets that the 3 employees live on.

RECEIVED
MICH. DEPT. OF NATURAL RESOURCES AND ENVIRONMENT

OCT 12 2011

ENVIRONMENTAL RESOURCE MANAGEMENT DIVISION
KALAMAZOO DISTRICT OFFICE

10. NAME:

Name: Michael O'MalleyTitle: Water SuperintendentPhone: (269) 927-8471Date: 10/11/11 Oct 11, 2011

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

Water Supply Name/County Benton Harbor Water/Berrien CountyWSSN 0600

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
- 150 Birdie	9/27/11	2	NA	Cu	0	0	1
- 160 Birdie	9/27/11	2	NA	Cu	0	0	1
- 814 E. Vineyard	9/27/11	1*	Pb*	Cu	0	0	1
- 818 E. Vineyard	9/27/11	2	NA	Cu	0	70	1
- 1822 Eastland	9/27/11	2	NA	Cu	0	0	1
- 931 Lavette	9/27/11	2	NA	Cu	0	0	1
- 460 Maple	9/27/11	2	NA	Cu	0	0	1
- 127 N. McCord	9/27/11	2	NA	Cu	0	0	1
- 1125 Pearl	9/27/11	2	NA	Cu	0	0	1
- 694 Waukonda	9/27/11	2	NA	Cu	0	0	1
- 1034 Broadway	9/27/11	2	NA	Cu	1	0	1
- 156 N. Seely	9/27/11	2	NA	Cu	2	0	1
- 1725 Territorial	9/27/11	5	NA	Cu	2	100	1
- 295 Urbandale	9/27/11	2	NA	Cu	2	0	1
- 794 Thresher	9/27/11	2	NA	Cu	3	0	1
- 1189 Bishop	9/27/11	1	Pb*	Cu	4	0	1
- 786 Buss	9/28/11	2	NA	Cu	4	0	1
- 525 Edwards	9/27/11	2	NA	Cu	5	70	1
- 994 McAllister	9/27/11	2	NA	Cu	7	0	1
- 995 Jennings	9/29/11	2	NA	Cu	10	0	1
- 1055 Agard	9/27/11	2	NA	Cu	11	60	1
- 417 Maple	9/27/11	2	NA	Cu	12	0	1
- 1644 Monroe	9/29/11	1	Pb*	Cu	22	0	1

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb	10.7	3.7	22	1
Cu	67	13.	100	0

GAW

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE MANAGEMENT DIVISION
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**



Issued under authority of 1976 PA 399 and Administrative Rules, as amended.

Failure to submit this information is a violation of the Act 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. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Contacts.

1. Water Supply Name: City of Benton Harbor
2. County: Berrien 3. WSSN: 0600
4. Population: >11,000 5. Monitoring Period: From: 9/2011 To: 9/2012
6. Minimum # of Samples Required: 30 7. # of Samples Taken: 30
8. Name of Certified Laboratory: MI DEQ

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☐	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see Instructions paragraph 11, subparagraph "Sample Category."

Comments:

10. NAME:

Name: Stewart Beach
Title: Acting Superintendent Phone: 269-927-8471 Date: 10/8/2012

Rec'd 10/20/12
enmt

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

Water Supply Name/County Benton Harbor/BerrienWSSN 0600

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
1266 OGDEN	8/31/2012	1	L	G	5	ND	LE46117
786 BUSS	8/31/2012	3	L	G	4	ND	LE46113
1196 COLUMBUS	8/31/2012	2	L	G	2	ND	LE46120
1085 JENNINGS	8/31/2012	2	L	G	38	ND	LE46125
278 W DELAWARE	8/31/2012	2	L	G	ND	ND	LE46123
586 LYNWOOD	8/31/2012	2	L	G	ND	ND	LE46111
417 MAPLE	8/31/2012	2	L	G	5	ND	LE46110
994 MCALISTER	8/31/2012	1	L	G	3	ND	LE46121
1189 BISHOP	8/31/2012	1	L	G	11	ND	LE46116
1034 BROADWAY	8/31/2012	2	L	G	ND	ND	LE46124
465 PACKARD	8/31/2012	2	L	G	ND	ND	LE46115
765 HIGHLAND	8/31/2012	1	L	G	ND	ND	LE46114
796 HIGHLAND	8/31/2012	1	L	G	ND	ND	LE46112
742 LASALLE	8/31/2012	1	L	G	ND	ND	LE46122
630 WAUKONDA	8/31/2012	2	L	G	ND	ND	LE46118
1020 PAVONE	8/31/2012	1	L	G	4	ND	LE46119
1197 BROADWAY	9/11/2012	2	L	G	ND	70	LE47373
1199 PEARL	9/11/2012	1	L	G	2	130	LE47377
1125 PEARL	9/11/2012	1	L	G	1	60	LE47385
156 N SEELEY	9/11/2012	1	L	G	3	220	LE47379

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb	5	3.4	38	1
Cu	200	80.3	670	0

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

Water Supply Name/County BENTON HARBOR/BERRIEN

WSSN 0600

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
127 N MCCORD	9/11/2012	1	L	G	1	160	LE47382
804 HIGHLAND	9/11/2012	1	L	G	5	210	LE47384
460 MAPLE	9/11/2012	2	L	G	2	50	LE47386
525 EDWARDS	9/11/2012	2	L	G	ND	60	LE47374
1055 AGARD	9/11/2012	2	L	G	5	150	LE47376
995 JENNINGS	9/11/2012	1	L	G	1	190	LE47375
931 LAVETTE	9/11/2012	1	L	G	2	110	LE43380
1096 COLUMBUS	9/11/2012	1	L	G	2	200	LE47383
1854 LOMBARD	9/11/2012	2	L	G	3	130	LE47383
2035 RUSSELL	9/11/2012	2	L	G	3	670	LE47381

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
RESOURCE MANAGEMENT DIVISION
**LEAD AND COPPER REPORT AND
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1. Water Supply Name: Benton Harbor Water
 2. County: Berrien 3. WSSN: 0600
 4. Population: 10,200 5. Monitoring Period: From: Oct 2012 To: Sept. 30, 2015
 6. Minimum # of Samples Required: 30 7. # of Samples Taken: 30
 8. Name of Certified Laboratory: State of Michigan

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☐	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more
information
see
Instructions
paragraph 11,
subparagraph
"Sample
Category."

Comments:

RECEIVED
MICH. DEPT. OF NATURAL RESOURCES AND ENVIRONMENT

OCT 09 2015

ENVIRONMENTAL RESOURCE MANAGEMENT DIVISION
KALAMAZOO DISTRICT OFFICE

10. NAME:

Name:

Denny Edwards

Title:

Phone:

269-922-8471

Date:

10-9-15

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

Water Supply Name/County

Burton Harbor / Berrien

WSSN

0600

RESULTS:

	Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
1	568 E main	9-14-15	1	L,G	G	ND	ND	LF83581
2	786 Boss	9-14-15	1	L,G	G	0.001	ND	LF83594
3	350 Cross	9-14-15	1	L,G	G	0.008	ND	LF83583
4	1085 Jennings	9-14-15	1	L,G	G	0.024	ND	LF83590
5	155 Kline	9-25-15	1	L,G	G	0.006	ND	LF85295
6	1190 McAlister	9-14-15	1	L,G	G	0.007	ND	LF83570
7	417 maple	9-14-15	1	L,G	G	0.007	ND	LF83576
8	994 McAlister	9-14-15	1	L,G	G	0.004	ND	LF83577
9	1189 Bishop	9-14-15	1	L,G	G	ND	ND	LF83587
10	1034 Broadway	9-14-15	1	L,G	G	0.002	ND	LF83580
11	465 Packard	9-14-15	1	L,G	G	0.001	ND	LF83573
12	617 Thresher	9-14-15	1	L,G	G	0.005	ND	LF83592
13	972 McAlister	9-14-15	1	L,G	G	0.002	ND	LF83584
14	996 Lavette	9-14-15	1	L,G	G	0.013	ND	LF83586
15	630 Waukanda	9-14-15	1	L,G	G	ND	ND	LF83572
16	838 Lavette	9-21-15	1	L,G	G	0.012	ND	LF85296
17	824 Ogden	9-21-15	1	L,G	G	0.005	ND	LF85292
18	1199 Pearl	9-14-15	1	L,G	G	0.016	ND	LF83585
19	155 Packard	9-14-15	1	L,G	G	0.003	ND	LF83588
20	156 N. Seely	9-14-15	1	L,G	G	0.003	0.06	LF83574

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

Water Supply Name/County

Banten Harbor / Berrien

WSSN

0600

[illegible]

2. Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb	0.012	0.005	0.024	2
Cu	0.0	0.007	0.080	0

To: Ernest Sarkipato, EGLE

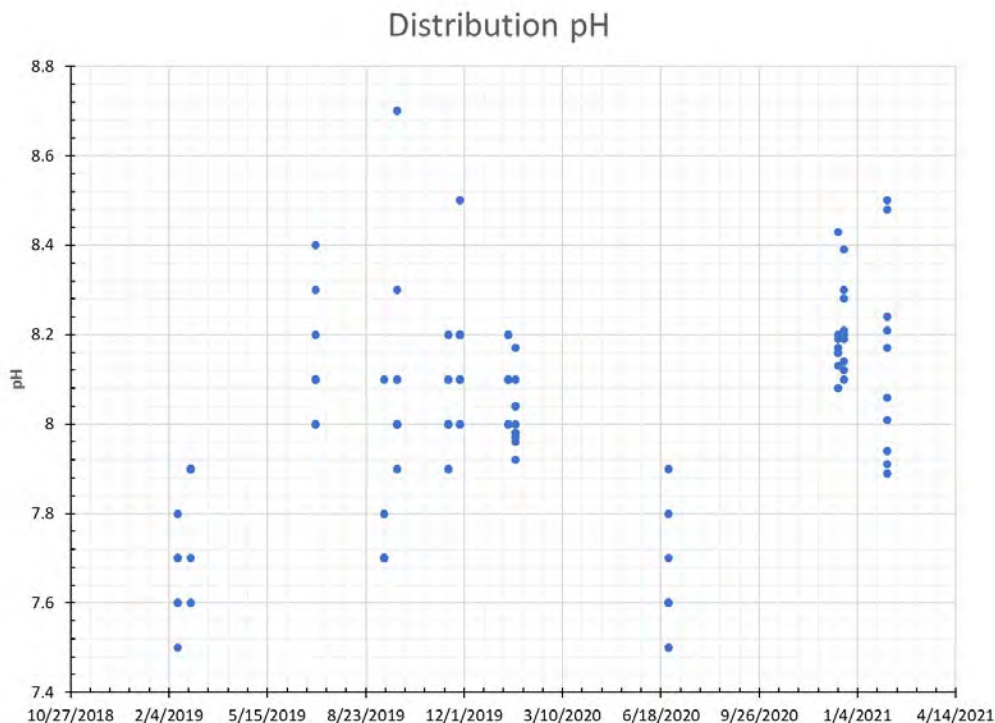
From: David Cornwell

Date: September 16, 2021

Subject: Benton Harbor Corrosion Test Plan

Based on recent discussions, Cornwell Engineering Group (Cornwell) proposes to assist the City of Benton Harbor with specific lead and copper corrosion control testing. The purpose of this investigation is to determine the effectiveness of the current corrosion control product and dose as compared to altering the pH and dose and as compared to a straight orthophosphate product.

The graph below shows the relative spread of the distribution pH samples provided by EGLE from their WQP data, which was used to determine the pH values to be tested. Many of the data points are “stacked” and appear hidden because certain dates had samples with equal pH. We are concerned about the large amount of time the pH is above 8, especially when it gets to pH 8.2 and above. We recognize that the WTP does not have pH control. Since the current 90/10 product is neutralized, it does not lower the pH. We therefore plan to also test phosphoric acid as it will help lower the pH.



All testing will be done using coupon procedures similar to those specified in Cornwell and Wagner 2019, although we have improved the setup since that paper. Two inhibitors at three doses will be evaluated. The 90/10 will be tested at pH 8.2 to simulate the high pH condition and at pH 7.8 for a more ideal range. Orthophosphate doses for the 90/10 will be set at 2, 3, and 4 mg/L o-PO₄. With the phosphoric acid, we will titrate the water starting at pH 8.2, add H₃PO₄ and then monitor pH. The goal is to bring the pH into a better range for orthophosphate, roughly below 7.8 or at least 7.9. We suspect the target pH range may take 3 to 4 mg/L o-PO₄. From that testing we will select proper doses. Therefore the 90/10 will be tested at two pH values and the phosphoric acid tested at a floating pH. That will allow both the evaluation of using a pH control chemical versus using phosphoric acid to lower pH.

Equilibration Water	CCP	Dose (mg/L as PO ₄)	Replicates at pH = 7.8	Replicates at pH = 8.2
	PO ₄	pH float	2	
	PO ₄	pH float	2	
	PO ₄	pH float	2	
	90/10 Phosphate	2	2	2
	90/10 Phosphate	3	2	2
	90/10 Phosphate	4	2	2

Overall, we have assessed the data for proper test conditions and will conduct the solubility testing, hold a PowerPoint web meeting, and prepare a final report. We will also be available for progress updates. We will have someone go to the WTP and collect the necessary water for our study prior to phosphate addition and then send it to our lab. All lead analyses are included in our \$50,000 fee.

As an optional service, we will conduct pipe scale analysis. The pricing does not really follow a per pipe cost, but as an example, 2 pipes would be \$11,600. This assumes the City harvests the lead pipes. We will have someone come to the site and pick up the pipes, preserve them and ship them to our lab. We can also observe and oversee the harvesting if given warning as to when to be on site. We will provide harvesting protocols to the City. Analysis includes carefully separating the scales into layers using a stereomicroscope to record and take pictures of the layers. Analytical analysis included XRD, SEM/EDS and SEM/WDS. The final deliverable will be a PowerPoint web meeting.

Lab Code	Name	Numb	Street	Copper	Lead
BHFree 61		1146	Agard	0.0	0.0
BHEAM 126		665	Beachwood Path	0.0	0.0
BHEAM 124		1125	Bishop	0.0	0.0
WA3		1281	Bishop	0.0	0.0
BHFEA 5		1165	Bishop Ave	110.0	0.0
BHFree 106		692	Broadway	0.0	0.0
BHFree 21		759	Broadway	0.0	0.0
BH10		1034	Broadway	61.0	0.0
BHFEA 49		1046	Broadway	26.0	0.0
BHFree 59		1197	Broadway	0.0	0.0
BHFree 38		553	Broadway Ave	0.0	0.0
BHEAM 130		837	Broadway St.	0.0	0.0
BHEAM 114		847	Broadway St.	0.0	0.0
BH2		786	Buss	2.3	0.0
BHFree 50		843	Buss	0.0	0.0
BHFree 98		555	Cass St	0.0	0.0
BHFree 73		453	Cherry St	0.0	0.0
BHFree 107		326	Colby Ave	0.0	0.0
BHEAM 95		709	Colfax	0.0	0.0
BHFEA 46		1031	Colfax	26.0	0.0
BHFree 54		601	Colfax Ave	0.0	0.0
BHFree 88		646	Colfax Ave	0.0	0.0
BHFree 35		869	Colfax Ave	0.0	0.0
BHFree 70		867	Columbus	0.0	0.0
BHFree 72		988	Columbus	0.0	0.0
BHe21		1196	Columbus	13.0	0.0
BHFree 76		1294	Columbus	0.0	0.0
BHEAM 142		1035	Columbus Ave.	0.0	0.0
BHFree 34		584	E Main	0.0	0.0
BHFree 43		777	E Main St	0.0	0.0
BHFree 31		803	E Vineyard Ave	0.0	0.0
BHFree 5		696	E. High	0.0	0.0
WA5		676	East High	0.0	0.0
BHFree 27		534	East Main	0.0	0.0
BHEAM 159		852	East Vineyard Ave.	0.0	0.0
BHEAM 156		839	Edgecumbe	0.0	0.0
BHFEA 39		550	Edward Ave	7.5	0.0
BHFree 68		613	Empire Ave	0.0	0.0
BHFEA 31		463	Foster Ave	17.0	0.0
BHFEA 21		110	Grand Blvd	37.0	0.0
BHFree 39		120	Grand Blvd	31.0	0.0
BHEAM 158		533	Green Ave.	70.0	0.0
BHFree 18		546	Heck Court	0.0	0.0
BHFree 83		530	Heck Ct	0.0	0.0
BHFree 15		367	High	0.0	0.0
BHEAM 167		742	Lasalle	290.0	0.0
BHEAM 121		986	Lavette	0.0	0.0
BHEAM 135		344	Lincoln St.	0.0	0.0
BHFree 6		738	Madison	0.0	0.0
BHFree 16		452	Maple	0.0	0.0
BHFree 13		970	McAllister	5.0	0.0

BHFEA 30		768 Monroe St	20.0	0.0
BHFEA 33		395 Morton	280.0	0.0
BHFree 47		309 N Hull St	9.0	0.0
BH21		127 North McCord	16.0	0.0
BHP3		146 North McCord	60.0	0.0
WA2		471 North Winans	110.0	0.0
BHEAM 120		220 Oden	160.0	0.0
BHFree 26		1051 Ogden	0.0	0.0
BHFree 62		1246 Ogden Ave	8.0	0.0
BHFEA 32		1638 Paw Paw Ave	110.0	0.0
BHFree 10		888 Pearl	0.0	0.0
BHEAM 111		633 Pipestone	0.0	0.0
BHFree 58		359 Pipestone St	0.0	0.0
BHEAM 113		575 Ridgeway	0.0	0.0
BHe23		127 South Hull	25.0	0.0
BHFEA 4		134 Territorial	52.0	0.0
BHFEA 2		504 Territorial	160.0	0.0
BHFree 80		650 Territorial	0.0	0.0
BHFree 90		190 Territorial Rd #2-B	7.0	0.0
BHFree 105		376 W Main Apt 205	0.0	0.0
BHFree 66		376 W Main St	0.0	0.0
BHFree 89		200 Water St Unit2	0.0	0.0
BH15		630 Wauconda	2.3	0.0
BHEAM 173		838 Wauconda	0.0	0.0
BHEAM 125		898 Wauconda	0.0	0.0
BHFree 45		784 Waukonda	0.0	0.0
BHEAM 134		307 Windsor Rd.	0.0	0.0
BHFree 30		211 a East Main	0.0	1.0
BH59		286 Brunson	7.6	1.0
BH45		588 Cass	4.1	1.0
BHFree 81		580 E Empire	0.0	1.0
BHFree 42		213 E Wall St	0.0	1.0
BH24		217 E. Main Apt C	11.0	1.0
WA7		711 East Main	0.0	1.0
BH35		470 Edwards	1.9	1.0
BH39		1094 McAllister	6.2	1.0
BHEAM 144		930 Monroe	0.0	1.0
BHEA88		138 North McCord	13.0	1.0
BH36		1271 Ogden	5.9	1.0
BHM2		1282 Ogden	0.0	1.0
BHFree 11		1120 Pearl	0.0	1.0
BHFree 7		1260 Pearl	30.0	1.0
BH43		308 Stevens	43.0	1.0
BH38		654 Thresher	8.6	1.0
BH53		442 Vineyard	88.0	1.0
BH54		463 Vineyard	15.0	1.0
BHFree 79		216 W Empire	0.0	1.0
BH16		627 W. Main	51.0	1.0
BH15		643 W. Main	34.0	1.0
BH58		559 Waukonda	19.0	1.0
BHEA75		284 West Empire	11.0	1.0
BH20		753 Broadway	4.2	1.2

BHFEA 28	478 Vineyard	36.0	1.2
BH56	1191 Pavone	2.2	1.3
BHFEA 47	988 Pearl	3.2	1.3
BH60	235 Park Ave	15.0	1.5
BHFEA 35	836 E Vineyard	1.9	1.6
BH28	801 LaSalle	58.0	1.6
BH55	688 S. Fair	33.0	1.8
BH42	155 Smith Ct	16.0	1.8
BHFEA 42	1141 McAllister	9.8	1.9
BHEAM 136	1148 Agard	0.0	2.0
BHEAM 97	1186 Agard	0.0	2.0
BHFEA 25	161 Apple St	2.7	2.0
BHFree 97	977 Bishop	0.0	2.0
BHFree 94	412 Broadway	0.0	2.0
BHFree 49	430 Clay	0.0	2.0
BHFree 36	831 Colfax Ave	0.0	2.0
BHFree 28	819 East Vineyard	0.0	2.0
BH24	525 Edwards	22.0	2.0
BHFree 60	1086 Jennings	0.0	2.0
BHFree 91	770 LaSalle	0.0	2.0
BHFree 32	846 Mineral Ave	0.0	2.0
BHFree 40	111 N. Seeley	0.0	2.0
BHEAM 177	830 Nate Wells Drive	0.0	2.0
BHFree 64	400 Packard	0.0	2.0
BHFree 52	220 Robins	0.0	2.0
BHFEA 51	160 Smith Ct	21.0	2.0
BHEAM 123	781 Thresher	80.0	2.0
BHFree 92	807 Wauceda Ave	0.0	2.0
BHFEA 26	956 Superior	5.0	2.1
BHFEA 44	141 N Winans	14.0	2.2
BH20	156 North Seely	72.0	2.4
BH17	824 Ogden	4.1	2.5
BHFEA 13	758 Pearl	3.4	2.5
BHFEA 43	974 Jennings	7.1	2.7
BH11	465 Packard	9.3	2.7
BH47	554 Pearl	37.0	2.9
BHFree 14	128 Apple	0.0	3.0
BHEAM 163	875 Broadway	0.0	3.0
BHFree 96	576 Colfax	0.0	3.0
BHFree 2	1025 Colfax	0.0	3.0
BHEAM 164	995 Colfax Ave.	0.0	3.0
BHFree 24	577 East Main	0.0	3.0
BHEAM 147	768 Lavette	0.0	3.0
BHFEA 36	1264 Monroe	18.0	3.0
BHEAM 99	986 Pavone	0.0	3.0
BHFree 95	614 Pearl	0.0	3.0
BHFree 46	805 Pearl St	0.0	3.0
BHFree 77	665 Pipestone St	0.0	3.0
BH27	1022 Hurd	20.0	3.4
BHFEA 24	750 Pearl	81.0	3.5
BHFree 101	1049 Colfax	0.0	4.0
BHFree 63	531 Columbus	0.0	4.0

BHFree 3	1228 Pavone	0.0	4.0
BHFree 19	1019 Pearl	0.0	4.0
BHFree 87	847 Wauceda Ave	0.0	4.0
BHFEA 27	1362 Bishop	40.0	4.1
BH3	350 Cross	4.4	4.1
BHFEA 15	695 Pearl St	4.9	4.1
BH25	1014 Superior	15.0	4.1
BH33	972 McAllister	18.0	4.4
BH8	994 McAllister	4.2	4.4
BH17	1181 Ogden	32.0	4.4
BH29	1046 Agard	14.0	4.7
BH12	617 Thresher	2.5	4.9
BH41	875 Warwick	120.0	4.9
BHEAM 116	1068 Agard	0.0	5.0
BHEAM 93	1034 Bishop	0.0	5.0
BHEAM 100	1159 Colfax	0.0	5.0
BHFree 17	565 Columbus	0.0	5.0
BHFree 93	1152 Jennings	0.0	5.0
BHFree 100	1230 Ogden	0.0	5.0
BHFree 51	1266 Ogden Ave	0.0	5.0
BHFree 86	1264 Pavone St	0.0	5.0
BHFEA 1	964 Pearl St	3.0	5.0
WA6	210 Searles	0.0	5.0
BHEAM 190	782 Territorial Road	0.0	5.0
BHFree 65	1229 Union Ave	0.0	5.0
BHFEA 3	697 Buss	1.9	5.1
BHFEA 40	1292 Bishop	4.3	5.2
BHFEA 38	341 Brunson	51.0	5.2
BH14	1384 Union	4.1	5.5
BHM1	285 Hastings	3.3	5.8
BHFEA 9	647 Highland	4.4	5.9
BHEAM 178	449 East Main St.	0.0	6.0
BHFree 85	523 Heck Ct	0.0	6.0
BHFree 104	161 Kline	0.0	6.0
BHEAM 170	831 Lasalle	50.0	6.0
BHe24	507 Green	8.7	6.1
BHFEA 6	174 Hastings	160.0	6.4
BHFEA 11	1086 Superior	3.1	6.4
BHFEA 8	668 E Empire	3.8	6.5
BH52	827 McAllister	9.8	6.6
BH50	1110 Bishop	11.0	6.9
BHFree 12	546 Columbus	0.0	7.0
BHFree 57	1122 Jennings Ave	0.0	7.0
BHFree 48	815 Pearl PO box 875	0.0	7.0
WA1	884 Waceda	0.0	7.0
BH31	946 Pavone	15.0	7.1
BH32	719 McAllister	11.0	7.3
BH18	1030 Union	2.2	7.6
BHFree 41	1237 Columbus Ave	0.0	8.0
BHFree 8	1152 Monroe	0.0	8.0
BHFree 78	1128 Ogden Ave	0.0	8.0
BHFree 75	539 Pearl St	0.0	8.0

BH22		212 Parker	1.1	8.1
BH37		956 Ogden	4.2	8.5
BH44		941 Broadway	5.1	8.6
BH19		1369 Bishop	4.2	8.9
BHFree 82		370 N McCord St	0.0	9.0
BHFree 74		255 Parker Ave	0.0	9.0
BHFree 37		150 Searles	0.0	9.0
BHFree 55		2136 Superior	0.0	9.0
BH34		1218 Monroe	4.9	9.4
BHFEA 48		1011 Pearl St	21.0	9.6
BH57		166 Parker	2.6	9.8
BHFree 103		781 Buss Ave	0.0	10.0
BHEA70		805 East Vineyard	9.9	10.0
BHFree 25		475 Green	0.0	10.0
BHEAM 141		633 Highland	0.0	10.0
BHP2		133 Kline	15.0	10.0
BHFree 69		538 Columbus Ave	0.0	11.0
BH32		981 McAllister	62.0	11.0
BH30		969 Monroe	8.6	11.0
BHEAM 151		741 Pipestone	50.0	11.0
BHEAM 143		1248 Broadway	0.0	12.0
BHFree 1		1251 Columbus	0.0	12.0
BHEAM 128		1267 Columbus	0.0	12.0
BHFEA 23		1175 Jennings	5.2	12.0
BHFree 71		1229 Monroe St	0.0	12.0
BH29		947 Pearl	7.0	12.0
BH25		1055 Agard	47.0	13.0
BHEA74		1081 Jennings	8.3	13.0
BHFree 29		812 Lavette	0.0	13.0
BHEAM 191		366 North McCord	0.0	13.0
BHFEA 16		1212 Pearl St	55.0	13.0
BHFree 9		1112 Agard	0.0	14.0
BH49		1188 Agard	6.9	14.0
BH28		1096 Columbus	7.0	14.0
BH30		1039 Hurd	2.0	14.0
BHEAM 94		1315 Jennings	0.0	14.0
BH26		961 Monroe	78.0	14.0
BHFree 4		610 Superior	0.0	14.0
WA4		675 East High	0.0	16.0
BHFEA 18		1016 LaVette	3.6	16.0
BH6		1190 McAllister	8.4	16.0
BHFree 53		948 Ogden	0.0	16.0
BHFEA 14		955 Ogden	26.0	16.0
BHFree 84		1259 Bishop Ave	0.0	17.0
BHFree 44		860 Columbus St	0.0	17.0
BH5		155 Kline	14.0	17.0
BHFree 22		1271 Pavone	0.0	17.0
BHFEA 50		1197 Agard	2.6	18.0
BHFree 33		1053 Jennings	0.0	18.0
BHEAM 139		1174 Broadway	0.0	19.0
BH31		468 Colfax	2.1	19.0
BHFEA 22		1124 Colfax Ave	23.0	19.0

BH46		872 McAllister	7.1	19.0
BH1		805 McGuigan	6.4	19.0
BHFEA 29		1164 Monroe	23.0	19.0
BHFree 56		142 Cross St	0.0	21.0
BHFEA 52		1129 Jennings	10.0	21.0
BH16		838 Lavette	86.0	21.0
BHP1		1094 Superior	6.2	22.0
BH33		1050 Columbus	38.0	23.0
BHFEA 41		1110 Ogden	21.0	24.0
BH51		1109 Pavone	31.0	24.0
BH23		918 Colfax	21.0	25.0
BHEAM 137		828 Columbus Ave.	0.0	25.0
BHFree 23		166 Searles	0.0	25.0
BHFEA 37		1354 Bishop Ave	2.1	26.0
BHFEA 7		931 Monroe	9.3	27.0
Bhe22		182 Searles	24.0	27.0
BHFEA 34		134 Cross St	9.8	28.0
BHD1		791 Buss	48.0	29.0
BHFEA 12		1133 Jennings	4.4	30.0
BHFEA 17		768 Pearl St	11.0	32.0
BH48		152 Robbins	15.0	33.0
BHFree 67		1289 Bishop	0.0	34.0
BHFEA 10		1083 Superior	4.3	35.0
BH40		1237 Superior	6.6	37.0
BHFree 102		999 Pearl St	0.0	38.0
BH23		554 Columbus	11.0	40.0
BHFree 20		1159 Lavette	5.0	41.0
BHFree 99		649 Pipestone	0.0	50.0
BHFEA 19		933 Ogden Ave	34.0	51.0
BHFEA 20		857 Ogden	15.0	55.0
BHFEA 45		1178 Broadway	4.6	56.0
BH21		875 Mineral	7.8	58.0
BH19		1180 Lavette	1.5	60.0
BHEAM 138		1294 Broadway	0.0	62.0
BHEAM 129		1120 Hurd Ave.		

Lab Code	Name	Numb	Street
BHFree 61			1146 Agard
BHEAM 126			665 Beachwood Path
BHEAM 124			1125 Bishop
WA3			1281 Bishop
BHFEA 5			1165 Bishop Ave
BHFree 106			692 Broadway
BHFree 21			759 Broadway
BH10			1034 Broadway
BHFEA 49			1046 Broadway
BHFree 59			1197 Broadway
BHFree 38			553 Broadway Ave
BHEAM 130			837 Broadway St.
BHEAM 114			847 Broadway St.
BH2			786 Buss
BHFree 50			843 Buss
BHFree 98			555 Cass St
BHFree 73			453 Cherry St
BHFree 107			326 Colby Ave
BHEAM 95			709 Colfax
BHFEA 46			1031 Colfax
BHFree 54			601 Colfax Ave
BHFree 88			646 Colfax Ave
BHFree 35			869 Colfax Ave
BHFree 70			867 Columbus
BHFree 72			988 Columbus
BHe21			1196 Columbus
BHFree 76			1294 Columbus
BHEAM 142			1035 Columbus Ave.
BHFree 34			584 E Main
BHFree 43			777 E Main St
BHFree 31			803 E Vineyard Ave
BHFree 5			696 E. High
WA5			676 East High
BHFree 27			534 East Main
BHEAM 159			852 East Vineyard Ave.
BHEAM 156			839 Edgecumbe
BHFEA 39			550 Edward Ave
BHFree 68			613 Empire Ave
BHFEA 31			463 Foster Ave
BHFEA 21			110 Grand Blvd
BHFree 39			120 Grand Blvd
BHEAM 158			533 Green Ave.
BHFree 18			546 Heck Court
BHFree 83			530 Heck Ct
BHFree 15			367 High
BHEAM 167			742 Lasalle
BHEAM 121			986 Lavette
BHEAM 135			344 Lincoln St.
BHFree 6			738 Madison
BHFree 16			452 Maple
BHFree 13			970 McAllister
BHFEA 30			768 Monroe St
BHFEA 33			395 Morton

BHFree 47
BH21
BHP3
WA2
BHEAM 120
BHFree 26
BHFree 62
BHFEA 32
BHFree 10
BHEAM 111
BHFree 58
BHEAM 113
BHe23
BHFEA 4
BHFEA 2
BHFree 80
BHFree 90
BHFree 105
BHFree 66
BHFree 89
BH15
BHEAM 173
BHEAM 125
BHFree 45
BHEAM 134
BHFree 30
BH59
BH45
BHFree 81
BHFree 42
BH24
WA7
BH35
BH39
BHEAM 144
BHEA88
BH36
BHM2
BHFree 11
BHFree 7
BH43
BH38
BH53
BH54
BHFree 79
BH16
BH15
BH58
BHEA75
BH20
BHFEA 28
BH56
BHFEA 47
BH60
BHFEA 35

309 N Hull St
127 North McCord
146 North McCord
471 North Winans
220 Oden
1051 Ogden
1246 Ogden Ave
1638 Paw Paw Ave
888 Pearl
633 Pipestone
359 Pipestone St
575 Ridgeway
127 South Hull
134 Territorial
504 Territorial
650 Territorial
190 Territorial Rd #2-B
376 W Main Apt 205
376 W Main St
200 Water St Unit2
630 Wauconda
838 Wauconda
898 Wauconda
784 Waukonda
307 Windsor Rd.
211 a East Main
286 Brunson
588 Cass
580 E Empire
213 E Wall St
217 E. Main Apt C
711 East Main
470 Edwards
1094 McAllister
930 Monroe
138 North McCord
1271 Ogden
1282 Ogden
1120 Pearl
1260 Pearl
308 Stevens
654 Thresher
442 Vineyard
463 Vineyard
216 W Empire
627 W. Main
643 W. Main
559 Waukonda
284 West Empire
753 Broadway
478 Vineyard
1191 Pavone
988 Pearl
235 Park Ave
836 E Vineyard

BH28
BH55
BH42
BHFEA 42
BHEAM 136
BHEAM 97
BHFEA 25
BHFree 97
BHFree 94
BHFree 49
BHFree 36
BHFree 28
BH24
BHFree 60
BHFree 91
BHFree 32
BHFree 40
BHEAM 177
BHFree 64
BHFree 52
BHFEA 51
BHEAM 123
BHFree 92
BHFEA 26
BHFEA 44
BH20
BH17
BHFEA 13
BHFEA 43
BH11
BH47
BHFree 14
BHEAM 163
BHFree 96
BHFree 2
BHEAM 164
BHFree 24
BHEAM 147
BHFEA 36
BHEAM 99
BHFree 95
BHFree 46
BHFree 77
BH27
BHFEA 24
BHFree 101
BHFree 63
BHFree 3
BHFree 19
BHFree 87
BHFEA 27
BH3
BHFEA 15
BH25
BH33

801 LaSalle
688 S. Fair
155 Smith Ct
1141 McAllister
1148 Agard
1186 Agard
161 Apple St
977 Bishop
412 Broadway
430 Clay
831 Colfax Ave
819 East Vineyard
525 Edwards
1086 Jennings
770 LaSalle
846 Mineral Ave
111 N. Seeley
830 Nate Wells Drive
400 Packard
220 Robins
160 Smith Ct
781 Thresher
807 Wauceda Ave
956 Superior
141 N Winans
156 North Seely
824 Ogden
758 Pearl
974 Jennings
465 Packard
554 Pearl
128 Apple
875 Broadway
576 Colfax
1025 Colfax
995 Colfax Ave.
577 East Main
768 Lavette
1264 Monroe
986 Pavone
614 Pearl
805 Pearl St
665 Pipestone St
1022 Hurd
750 Pearl
1049 Colfax
531 Columbus
1228 Pavone
1019 Pearl
847 Wauceda Ave
1362 Bishop
350 Cross
695 Pearl St
1014 Superior
972 McAllister

BH8
BH17
BH29
BH12
BH41
BHEAM 116
BHEAM 93
BHEAM 100
BHFree 17
BHFree 93
BHFree 100
BHFree 51
BHFree 86
BHFEA 1
WA6
BHEAM 190
BHFree 65
BHFEA 3
BHFEA 40
BHFEA 38
BH14
BHM1
BHFEA 9
BHEAM 178
BHFree 85
BHFree 104
BHEAM 170
BHe24
BHFEA 6
BHFEA 11
BHFEA 8
BH52
BH50
BHFree 12
BHFree 57
BHFree 48
WA1
BH31
BH32
BH18
BHFree 41
BHFree 8
BHFree 78
BHFree 75
BH22
BH37
BH44
BH19
BHFree 82
BHFree 74
BHFree 37
BHFree 55
BH34
BHFEA 48
BH57

994 McAllister
1181 Ogden
1046 Agard
617 Thresher
875 Warwick
1068 Agard
1034 Bishop
1159 Colfax
565 Columbus
1152 Jennings
1230 Ogden
1266 Ogden Ave
1264 Pavone St
964 Pearl St
210 Searles
782 Territorial Road
1229 Union Ave
697 Buss
1292 Bishop
341 Brunson
1384 Union
285 Hastings
647 Highland
449 East Main St.
523 Heck Ct
161 Kline
831 Lasalle
507 Green
174 Hastings
1086 Superior
668 E Empire
827 McAllister
1110 Bishop
546 Columbus
1122 Jennings Ave
815 Pearl PO box 875
884 Waceda
946 Pavone
719 McAllister
1030 Union
1237 Columbus Ave
1152 Monroe
1128 Ogden Ave
539 Pearl St
212 Parker
956 Ogden
941 Broadway
1369 Bishop
370 N McCord St
255 Parker Ave
150 Searles
2136 Superior
1218 Monroe
1011 Pearl St
166 Parker

BHFree 103
BHEA70
BHFree 25
BHEAM 141
BHP2
BHFree 69
BH32
BH30
BHEAM 151
BHEAM 143
BHFree 1
BHEAM 128
BHFEA 23
BHFree 71
BH29
BH25
BHEA74
BHFree 29
BHEAM 191
BHFEA 16
BHFree 9
BH49
BH28
BH30
BHEAM 94
BH26
BHFree 4
WA4
BHFEA 18
BH6
BHFree 53
BHFEA 14
BHFree 84
BHFree 44
BH5
BHFree 22
BHFEA 50
BHFree 33
BHEAM 139
BH31
BHFEA 22
BH46
BH1
BHFEA 29
BHFree 56
BHFEA 52
BH16
BHP1
BH33
BHFEA 41
BH51
BH23
BHEAM 137
BHFree 23
BHFEA 37

781 Buss Ave
805 East Vineyard
475 Green
633 Highland
133 Kline
538 Columbus Ave
981 McAllister
969 Monroe
741 Pipestone
1248 Broadway
1251 Columbus
1267 Columbus
1175 Jennings
1229 Monroe St
947 Pearl
1055 Agard
1081 Jennings
812 Lavette
366 North McCord
1212 Pearl St
1112 Agard
1188 Agard
1096 Columbus
1039 Hurd
1315 Jennings
961 Monroe
610 Superior
675 East High
1016 LaVette
1190 McAllister
948 Ogden
955 Ogden
1259 Bishop Ave
860 Columbus St
155 Kline
1271 Pavone
1197 Agard
1053 Jennings
1174 Broadway
468 Colfax
1124 Colfax Ave
872 McAllister
805 McGuigan
1164 Monroe
142 Cross St
1129 Jennings
838 Lavette
1094 Superior
1050 Columbus
1110 Ogden
1109 Pavone
918 Colfax
828 Columbus Ave.
166 Searles
1354 Bishop Ave

BHFEA 7
Bhe22
BHFEA 34
BHD1
BHFEA 12
BHFEA 17
BH48
BHFree 67
BHFEA 10
BH40
BHFree 102
BH23
BHFree 20
BHFree 99
BHFEA 19
BHFEA 20
BHFEA 45
BH21
BH19
BHEAM 138
BHEAM 129

931 Monroe
182 Searles
134 Cross St
791 Buss
1133 Jennings
768 Pearl St
152 Robbins
1289 Bishop
1083 Superior
1237 Superior
999 Pearl St
554 Columbus
1159 Lavette
649 Pipestone
933 Ogden Ave
857 Ogden
1178 Broadway
875 Mineral
1180 Lavette
1294 Broadway
1120 Hurd Ave.

Lab Code	Name	Numb	Street	Copper	Lead
BHFree 30		211	a East Main	0.0	1.0
BH59		286	Brunson	7.6	1.0
BH45		588	Cass	4.1	1.0
BHFree 81		580	E Empire	0.0	1.0
BHFree 42		213	E Wall St	0.0	1.0
BH24		217	E. Main Apt C	11.0	1.0
WA7		711	East Main	0.0	1.0
BH35		470	Edwards	1.9	1.0
BH39		1094	McAllister	6.2	1.0
BHEAM 144		930	Monroe	0.0	1.0
BHEA88		138	North McCord	13.0	1.0
BH36		1271	Ogden	5.9	1.0
BHM2		1282	Ogden	0.0	1.0
BHFree 11		1120	Pearl	0.0	1.0
BHFree 7		1260	Pearl	30.0	1.0
BH43		308	Stevens	43.0	1.0
BH38		654	Thresher	8.6	1.0
BH53		442	Vineyard	88.0	1.0
BH54		463	Vineyard	15.0	1.0
BHFree 79		216	W Empire	0.0	1.0
BH16		627	W. Main	51.0	1.0
BH15		643	W. Main	34.0	1.0
BH58		559	Waukonda	19.0	1.0
BHEA75		284	West Empire	11.0	1.0
BH20		753	Broadway	4.2	1.2
BHFEA 28		478	Vineyard	36.0	1.2
BH56		1191	Pavone	2.2	1.3
BHFEA 47		988	Pearl	3.2	1.3
BH60		235	Park Ave	15.0	1.5
BHFEA 35		836	E Vineyard	1.9	1.6
BH28		801	LaSalle	58.0	1.6
BH55		688	S. Fair	33.0	1.8
BH42		155	Smith Ct	16.0	1.8
BHFEA 42		1141	MCAllister	9.8	1.9
BHEAM 136		1148	Agard	0.0	2.0
BHEAM 97		1186	Agard	0.0	2.0
BHFEA 25		161	Apple St	2.7	2.0
BHFree 97		977	Bishop	0.0	2.0
BHFree 94		412	Broadway	0.0	2.0
BHFree 49		430	Clay	0.0	2.0
BHFree 36		831	Colfax Ave	0.0	2.0
BHFree 28		819	East Vineyard	0.0	2.0
BH24		525	Edwards	22.0	2.0
BHFree 60		1086	Jennings	0.0	2.0
BHFree 91		770	LaSalle	0.0	2.0
BHFree 32		846	Mineral Ave	0.0	2.0
BHFree 40		111	N. Seeley	0.0	2.0
BHEAM 177		830	Nate Wells Drive	0.0	2.0
BHFree 64		400	Packard	0.0	2.0
BHFree 52		220	Robins	0.0	2.0
BHFEA 51		160	Smith Ct	21.0	2.0

BHEAM 123		781 Thresher	80.0	2.0
BHFree 92		807 Wauceda Ave	0.0	2.0
BHFEA 26		956 Superior	5.0	2.1
BHFEA 44		141 N Winans	14.0	2.2
BH20		156 North Seely	72.0	2.4
BH17		824 Ogden	4.1	2.5
BHFEA 13		758 Pearl	3.4	2.5
BHFEA 43		974 Jennings	7.1	2.7
BH11		465 Packard	9.3	2.7
BH47		554 Pearl	37.0	2.9
BHFree 14		128 Apple	0.0	3.0
BHEAM 163		875 Broadway	0.0	3.0
BHFree 96		576 Colfax	0.0	3.0
BHFree 2		1025 Colfax	0.0	3.0
BHEAM 164		995 Colfax Ave.	0.0	3.0
BHFree 24		577 East Main	0.0	3.0
BHEAM 147		768 Lavette	0.0	3.0
BHFEA 36		1264 Monroe	18.0	3.0
BHEAM 99		986 Pavone	0.0	3.0
BHFree 95		614 Pearl	0.0	3.0
BHFree 46		805 Pearl St	0.0	3.0
BHFree 77		665 Pipestone St	0.0	3.0
BH27		1022 Hurd	20.0	3.4
BHFEA 24		750 Pearl	81.0	3.5
BHFree 101		1049 Colfax	0.0	4.0
BHFree 63		531 Columbus	0.0	4.0
BHFree 3		1228 Pavone	0.0	4.0
BHFree 19		1019 Pearl	0.0	4.0
BHFree 87		847 Wauceda Ave	0.0	4.0
BHFEA 27		1362 Bishop	40.0	4.1
BH3		350 Cross	4.4	4.1
BHFEA 15		695 Pearl St	4.9	4.1
BH25		1014 Superior	15.0	4.1
BH33		972 McAllister	18.0	4.4
BH8		994 McAllister	4.2	4.4
BH17		1181 Ogden	32.0	4.4
BH29		1046 Agard	14.0	4.7
BH12		617 Thresher	2.5	4.9
BH41		875 Warwick	120.0	4.9
BHEAM 116		1068 Agard	0.0	5.0
BHEAM 93		1034 Bishop	0.0	5.0
BHEAM 100		1159 Colfax	0.0	5.0
BHFree 17		565 Columbus	0.0	5.0
BHFree 93		1152 Jennings	0.0	5.0
BHFree 100		1230 Ogden	0.0	5.0
BHFree 51		1266 Ogden Ave	0.0	5.0
BHFree 86		1264 Pavone St	0.0	5.0
BHFEA 1		964 Pearl St	3.0	5.0
WA6		210 Searles	0.0	5.0
BHEAM 190		782 Territorial Road	0.0	5.0
BHFree 65		1229 Union Ave	0.0	5.0
BHFEA 3		697 Buss	1.9	5.1

BHFEA 40	1292 Bishop	4.3	5.2
BHFEA 38	341 Brunson	51.0	5.2
BH14	1384 Union	4.1	5.5
BHM1	285 Hastings	3.3	5.8
BHFEA 9	647 Highland	4.4	5.9
BHEAM 178	449 East Main St.	0.0	6.0
BHFree 85	523 Heck Ct	0.0	6.0
BHFree 104	161 Kline	0.0	6.0
BHEAM 170	831 Lasalle	50.0	6.0
BHe24	507 Green	8.7	6.1
BHFEA 6	174 Hastings	160.0	6.4
BHFEA 11	1086 Superior	3.1	6.4
BHFEA 8	668 E Empire	3.8	6.5
BH52	827 McAllister	9.8	6.6
BH50	1110 Bishop	11.0	6.9
BHFree 12	546 Columbus	0.0	7.0
BHFree 57	1122 Jennings Ave	0.0	7.0
BHFree 48	815 Pearl PO box 875	0.0	7.0
WA1	884 Waceda	0.0	7.0
BH31	946 Pavone	15.0	7.1
BH32	719 McAllister	11.0	7.3
BH18	1030 Union	2.2	7.6
BHFree 41	1237 Columbus Ave	0.0	8.0
BHFree 8	1152 Monroe	0.0	8.0
BHFree 78	1128 Ogden Ave	0.0	8.0
BHFree 75	539 Pearl St	0.0	8.0
BH22	212 Parker	1.1	8.1
BH37	956 Ogden	4.2	8.5
BH44	941 Broadway	5.1	8.6
BH19	1369 Bishop	4.2	8.9
BHFree 82	370 N McCord St	0.0	9.0
BHFree 74	255 Parker Ave	0.0	9.0
BHFree 37	150 Searles	0.0	9.0
BHFree 55	2136 Superior	0.0	9.0
BH34	1218 Monroe	4.9	9.4
BHFEA 48	1011 Pearl St	21.0	9.6
BH57	166 Parker	2.6	9.8
BHFree 103	781 Buss Ave	0.0	10.0
BHEA70	805 East Vineyard	9.9	10.0
BHFree 25	475 Green	0.0	10.0
BHEAM 141	633 Highland	0.0	10.0
BHP2	133 Kline	15.0	10.0
BHFree 69	538 Columbus Ave	0.0	11.0
BH32	981 McAllister	62.0	11.0
BH30	969 Monroe	8.6	11.0
BHEAM 151	741 Pipestone	50.0	11.0
BHEAM 143	1248 Broadway	0.0	12.0
BHFree 1	1251 Columbus	0.0	12.0
BHEAM 128	1267 Columbus	0.0	12.0
BHFEA 23	1175 Jennings	5.2	12.0
BHFree 71	1229 Monroe St	0.0	12.0
BH29	947 Pearl	7.0	12.0

BH25		1055 Agard	47.0	13.0
BHEA74		1081 Jennings	8.3	13.0
BHFree 29		812 Lavette	0.0	13.0
BHEAM 191		366 North McCord	0.0	13.0
BHFEA 16		1212 Pearl St	55.0	13.0
BHFree 9		1112 Agard	0.0	14.0
BH49		1188 Agard	6.9	14.0
BH28		1096 Columbus	7.0	14.0
BH30		1039 Hurd	2.0	14.0
BHEAM 94		1315 Jennings	0.0	14.0
BH26		961 Monroe	78.0	14.0
BHFree 4		610 Superior	0.0	14.0
WA4		675 East High	0.0	16.0
BHFEA 18		1016 LaVette	3.6	16.0
BH6		1190 McAllister	8.4	16.0
BHFree 53		948 Ogden	0.0	16.0
BHFEA 14		955 Ogden	26.0	16.0
BHFree 84		1259 Bishop Ave	0.0	17.0
BHFree 44		860 Columbus St	0.0	17.0
BH5		155 Kline	14.0	17.0
BHFree 22		1271 Pavone	0.0	17.0
BHFEA 50		1197 Agard	2.6	18.0
BHFree 33		1053 Jennings	0.0	18.0
BHEAM 139		1174 Broadway	0.0	19.0
BH31		468 Colfax	2.1	19.0
BHFEA 22		1124 Colfax Ave	23.0	19.0
BH46		872 McAllister	7.1	19.0
BH1		805 McGuigan	6.4	19.0
BHFEA 29		1164 Monroe	23.0	19.0
BHFree 56		142 Cross St	0.0	21.0
BHFEA 52		1129 Jennings	10.0	21.0
BH16		838 Lavette	86.0	21.0
BHP1		1094 Superior	6.2	22.0
BH33		1050 Columbus	38.0	23.0
BHFEA 41		1110 Ogden	21.0	24.0
BH51		1109 Pavone	31.0	24.0
BH23		918 Colfax	21.0	25.0
BHEAM 137		828 Columbus Ave.	0.0	25.0
BHFree 23		166 Searles	0.0	25.0
BHFEA 37		1354 Bishop Ave	2.1	26.0
BHFEA 7		931 Monroe	9.3	27.0
Bhe22		182 Searles	24.0	27.0
BHFEA 34		134 Cross St	9.8	28.0
BHD1		791 Buss	48.0	29.0
BHFEA 12		1133 Jennings	4.4	30.0
BHFEA 17		768 Pearl St	11.0	32.0
BH48		152 Robbins	15.0	33.0
BHFree 67		1289 Bishop	0.0	34.0
BHFEA 10		1083 Superior	4.3	35.0
BH40		1237 Superior	6.6	37.0
BHFree 102		999 Pearl St	0.0	38.0
BH23		554 Columbus	11.0	40.0

BHFree 20		1159 Lavette	5.0	41.0
BHFree 99		649 Pipestone	0.0	50.0
BHFEA 19		933 Ogden Ave	34.0	51.0
BHFEA 20		857 Ogden	15.0	55.0
BHFEA 45		1178 Broadway	4.6	56.0
BH21		875 Mineral	7.8	58.0
BH19		1180 Lavette	1.5	60.0
BHEAM 138		1294 Broadway	0.0	62.0
BHEAM 129		1120 Hurd Ave.		

Lab Code	Name	Numb	Street	Copper	Lead
BHFree 9		1112	Agard	0.0	14.0
BH49		1188	Agard	6.9	14.0
BH28		1096	Columbus	7.0	14.0
BH30		1039	Hurd	2.0	14.0
BHEAM 94		1315	Jennings	0.0	14.0
BH26		961	Monroe	78.0	14.0
BHFree 4		610	Superior	0.0	14.0
WA4		675	East High	0.0	16.0
BHFEA 18		1016	LaVette	3.6	16.0
BH6		1190	McAllister	8.4	16.0
BHFree 53		948	Ogden	0.0	16.0
BHFEA 14		955	Ogden	26.0	16.0
BHFree 84		1259	Bishop Ave	0.0	17.0
BHFree 44		860	Columbus St	0.0	17.0
BH5		155	Kline	14.0	17.0
BHFree 22		1271	Pavone	0.0	17.0
BHFEA 50		1197	Agard	2.6	18.0
BHFree 33		1053	Jennings	0.0	18.0
BHEAM 139		1174	Broadway	0.0	19.0
BH31		468	Colfax	2.1	19.0
BHFEA 22		1124	Colfax Ave	23.0	19.0
BH46		872	McAllister	7.1	19.0
BH1		805	McGuigan	6.4	19.0
BHFEA 29		1164	Monroe	23.0	19.0
BHFree 56		142	Cross St	0.0	21.0
BHFEA 52		1129	Jennings	10.0	21.0
BH16		838	Lavette	86.0	21.0
BHP1		1094	Superior	6.2	22.0
BH33		1050	Columbus	38.0	23.0
BHFEA 41		1110	Ogden	21.0	24.0
BH51		1109	Pavone	31.0	24.0
BH23		918	Colfax	21.0	25.0
BHEAM 137		828	Columbus Ave.	0.0	25.0
BHFree 23		166	Searles	0.0	25.0
BHFEA 37		1354	Bishop Ave	2.1	26.0
BHFEA 7		931	Monroe	9.3	27.0
Bhe22		182	Searles	24.0	27.0
BHFEA 34		134	Cross St	9.8	28.0
BHD1		791	Buss	48.0	29.0
BHFEA 12		1133	Jennings	4.4	30.0
BHFEA 17		768	Pearl St	11.0	32.0
BH48		152	Robbins	15.0	33.0
BHFree 67		1289	Bishop	0.0	34.0
BHFEA 10		1083	Superior	4.3	35.0
BH40		1237	Superior	6.6	37.0
BHFree 102		999	Pearl St	0.0	38.0
BH23		554	Columbus	11.0	40.0
BHFree 20		1159	Lavette	5.0	41.0
BHFree 99		649	Pipestone	0.0	50.0
BHFEA 19		933	Ogden Ave	34.0	51.0
BHFEA 20		857	Ogden	15.0	55.0

BHFEA 45		1178 Broadway	4.6	56.0
BH21		875 Mineral	7.8	58.0
BH19		1180 Lavette	1.5	60.0
BHEAM 138		1294 Broadway	0.0	62.0
BHEAM 129		1120 Hurd Ave.		