

### LABORATORY REPORT

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

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#### **STATE CERTIFICATION LIST**

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

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



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# **Laboratory Report**

Client: City of Benton Harbor Report: 485377

Attn: Michael O'Malley Priority: Standard Written

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

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

4624157	rpb12 Sample 5th	200.8	05/07/20 07:40	Client	05/11/20 10:55
4624158	rpb13 Sample 5th	200.8	05/07/20 07:20	Client	05/11/20 10:55
4624159	rpb15 Sample 5th	200.8	05/07/20 06:00	Client	05/11/20 10:55
4624160	rpb16 Sample 5th	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624161	rpb17 Sample 5th	200.8	05/07/20 07:45	Client	05/11/20 10:55
4624162	rpb18 Sample 5th	200.8	05/07/20 08:00	Client	05/11/20 10:55
4624163	rpb19 Sample 5th	200.8	05/05/20 14:30	Client	05/11/20 10:55
4624164	rpb20 Sample 5th	200.8	05/07/20 07:00	Client	05/11/20 10:55
4624165	rpb211 Sample 5th	200.8	05/08/20 04:14	Client	05/11/20 10:55

#### **Report Summary**

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

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

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Authorized Signature Title Date

Client Name: City of Benton Harbor

Report #: 485377

Sampling Point: rpb1 Sample 1st PWS ID: MI600

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

Sampling Point: rpb2 Sample 1st PWS ID: MI600

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

Sampling Point: rpb3 Sample 1st PWS ID: MI600

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

Sampling Point: rpb4 Sample 1st PWS ID: MI600

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

Sampling Point: rpb5 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	8.7	ug/L		05/21/20 11:55	4624130		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 11:55	4624130		

Sampling Point: rpb6 Sample 1st PWS ID: MI600

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

Sampling Point: rpb7 Sample 1st PWS ID: MI600

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

Sampling Point: rpb8 Sample 1st PWS ID: MI600

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

Sampling Point: rpb9 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 12:05	4624134		
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		05/21/20 12:05	4624134		

Sampling Point: rpb10 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/21/20 12:07	4624135			
7439-92-1 Lead 200.8 15! 1.0 <b>5.7</b> ug/L 05/21/20 12:07 46												

Sampling Point: rpb11 Sample 1st PWS ID: MI600

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

Sampling Point: rpb12 Sample 1st PWS ID: MI600

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

Sampling Point: rpb13 Sample 1st PWS ID: MI600

Lead and Copper											
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		05/21/20 12:24	4624138		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:24	4624138		

Sampling Point: rpb15 Sample 1st PWS ID: MI600

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

Sampling Point: rpb16 Sample 1st PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/21/20 12:29	4624140			
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/21/20 12:29	4624140			

Sampling Point: rpb17 Sample 1st PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/21/20 12:31	4624141		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 12:31	4624141		

Sampling Point: rpb18 Sample 1st PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		05/21/20 12:33	4624142			
7439-92-1	· · ·											

Sampling Point: rpb19 Sample 1st PWS ID: MI600

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

Sampling Point: rpb20 Sample 1st PWS ID: MI600

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	5.4	ug/L		05/21/20 12:38	4624144		
7439-92-1											

Sampling Point: rpb21 Sample 1st PWS ID: MI600

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

Sampling Point: rpb1 Sample 5th PWS ID: MI600

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

Sampling Point: rpb2 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit I D#												
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/21/20 12:55	4624147			
7439-92-1 Lead 200.8 15! 1.0 <b>2.0</b> ug/L 05/21/20 12:55 462												

Sampling Point: rpb3 Sample 5th PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	9.6	ug/L		05/21/20 13:02	4624148			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:02	4624148			

Sampling Point: rpb4 Sample 5th PWS ID: MI600

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/21/20 13:04	4624149			
7439-92-1 Lead 200.8 15! 1.0 <b>3.4</b> ug/L 05/21/20 13:04 46												

Sampling Point: rpb5 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	8.3	ug/L		05/21/20 13:07	4624150			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:07	4624150			

Sampling Point: rpb6 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		05/21/20 13:09	4624151		
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 <b>1.3</b> ug/L 05/21/20 13:09 4624										

Sampling Point: rpb7 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III												
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 13:12	4624152			
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/21/20 13:12 462												

Sampling Point: rpb8 Sample 5th PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		05/21/20 13:14	4624153			
7439-92-1	Lead	200.8	15 !	1.0	4.2	ug/L		05/21/20 13:14	4624153			

Sampling Point: rpb9 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.4	ug/L		05/21/20 13:16	4624154		
7439-92-1 Lead 200.8 15! 1.0 <b>7.9</b> ug/L 05/21/20 13:16 462											

Sampling Point: rpb10 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/21/20 13:19	4624155			
7439-92-1	Lead	200.8	15 !	1.0	14	ug/L		05/21/20 13:19	4624155			

Sampling Point: rpb11 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/21/20 13:26	4624156		
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 <b>23</b> ug/L 05/21/20 13:26 4624										

Sampling Point: rpb12 Sample 5th PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/21/20 13:28	4624157			
7439-92-1	Lead	200.8	15 !	1.0	5.3	ug/L		05/21/20 13:28	4624157			

Sampling Point: rpb13 Sample 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/21/20 13:35	4624158		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:35	4624158		

Sampling Point: rpb15 Sample 5th PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	50	ug/L		05/21/20 13:38	4624159
7439-92-1	Lead	200.8	15 !	1.0	4.3	ug/L		05/21/20 13:38	4624159

Sampling Point: rpb16 Sample 5th PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/21/20 13:40	4624160
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		05/21/20 13:40	4624160

Sampling Point: rpb17 Sample 5th PWS ID: MI600

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

Sampling Point: rpb18 Sample 5th PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	440-50-8 Copper 200.8 1300 ! 1.0 <b>1.8</b> ug/L 05/21/20 13:45 4624162								
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/21/20 13:45	4624162

Sampling Point: rpb19 Sample 5th PWS ID: MI600

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

Sampling Point: rpb20 Sample 5th PWS ID: MI600

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

Sampling Point: rpb211 Sample 5th PWS ID: MI600

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

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

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

#### **Lab Definitions**

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

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

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

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

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

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

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

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

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

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

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

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



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Order #398853

Batch # 48537

www.EurofinsUS.com/Eaton					CHAIN OF	CHAIN OF CLISTODY RECORD	RD		Page	-	of 2	
Shaded area for EEA use only	EEA use of	nly		The state of the s		2000				1	+	-
REPORT TO:			U)	SAMPLER (Signature)		# OI SMd	STATE (sample origin)	PROJECT NAME	#0d	T	-	Ļ
			2	Mike O'Malley		009	W	Lead Copper RPB				3
Mike O'Mailey, momailey@cityotbentorina.	arborni, gov			Yes	No	POPULATION SERVED	SOURCE WATER	2nd round May 5 to	S05112		67I	MIT
Mountley & whiche who who he was the you	- heathark	ر مالاردما ال	Ja C	COMPLIANCE MONITORING Yes		669'6	Lake Michigan	May 8 2020		3111V±111	CODE	T GNUOF
LAB Number	COLL	COLLECTION		SAMPLING SITE		TEST NAME	IME	SAMPLE REMARKS	CHLORINATED		Name :	IANA
	DATE	TIME AM	PM						YES	ON	-	UT
Julian 126	-		×	rpb1 sample 1st; sample 5th		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	SW
127		6:28 PM				Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
38		8:45 AM		-		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS I
9C1	-	9:20 PM		1		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
120		6:28 PM	1	-		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS I
an a	-	8:30 AM ×	1	1		Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	ws 1
t21	-	6:45 AM ×				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
133	-	-				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	WS /
3	-	-				Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	NS /
25	-	-	-	sample 1st		Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
(26)	-		-			Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
127		7:40 AM ×	-			Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS I
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		-				Lead and Copper 1st draw and 5th Draw	th Draw		Yes		2 SW	NS /
1201	H		-			Lead and Copper 1st draw and 5th Draw	ith Draw		Yes		2 SW	SW
RELINOUISHED BY (Signature)		DATE TII	TIME	RECEIVED BY:(Signature)	DATE	TIME	LAB RESRRVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT	ISED PORTIONS OF NON	-AQUEOU\$ SAMP	PLES TO C	JENT	
		_ 3	AM PM	Aron Mula	5/11/20	10:54 AW PM	* BOCKLE THAT RPBS STY CLOWD DENNERS OF	5th chow , Dample os 1100	ST C 4	J. F.	Sing	300
RELINCUISHED 61/(Signature)	\ <u>\</u>	S/11/2 10:	TIME R	RECEIVED BY:(Signature)	DATE	TIME CLOUD AND AND AND AND AND AND AND AND AND AN	me P P B4	T per PM	PM	20K	0	
RELINQUISHED BY:(Signature)		DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE		RECEIPT (check one):				(	
		AM	AM PM	Kane 6	511-2020	AM PM	loed: Wet/Blue Ambient	°C Upor	°C Upon Receipt		N/A	
MATRIX CODES:	7.	IRN-AROUND	2 TIME	TURN-AROUND TIME (TAT) - SURCHARGES								
DW-DRINKING WATER	SW	SW = Standard Written: (15 working days)	en: (15 wc	orking days) 0%	IV* = Immedia	W = Immediate Verbal: (3 working days) 100%						

RW\*=Rush Verbal: (5 working days) 50% WATER RW\*=Rush Verbal: (5 working days) 50% Water RW\*=Rush Verbal: (5 working days) 50% Water RW\*=Rush Verbal: (5 working days) 75% SP\*= Weekend, Holiday CALL than 48 hours holding time remaining may be subject to additional charges.

SYM-SER RW\*= Rush Written: (5 working days) 75% SP\*= Weekend, Holiday CALL than 48 hours CALL than 48

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

125% 100%

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

%0 20%

RV\* = Rush Verbal: (5 working days)

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

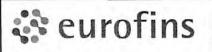


110 S. Hill Street

Order # Batch #

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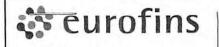
3 M × 57 35 TURNAROUND TIME 37 35 SW SW SW SW SW SW 2 MATRIX CODE LAB RESERVES THE RIGHT TO RETURN UNISED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT NA ō # OF CONTAINERS N Samples received unannounced with less CHLORINATED ON N 2 S05112 #0d Page YES Yes Yes Yes Yes Yes Yes C Upon Receipt Lead Copper RPB 2nd round May 5 to May 8 2020 SAMPLE REMARKS STATE (sample origin) PROJECT NAME SOURCE WATER Ambient Lake Michigan CONDITIONS UPON RECEIPT (check one): Ξ Lead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw Lead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw ead and Copper 1st draw and 5th Draw loed: Wet/Blue CHAIN OF CUSTODY RECORD *IEST NAME* 100% 125% POPULATION SERVED -LAB COMMENTS PWS ID# IW\* =Immediate Written: (3 working days) IV\* = Immediate Verbal: (3 working days) 9,639 600 5501 55.2 AM PM AM PM AM PM TIME TIME 120 DATE DATE DATE 2 SAMPLING SITE Yes Yes RECEIVED FOR LABORATORY BY: sample 1st; sample 5th RECEIVED BY:(Signature) RECEIVED BY:(Signature) TURN-AROUND TIME (TAT) - SURCHARGES SAMPLER (Signature) COMPLIANCE %0 %09 Mike O'Malley SW = Standard Written: (15 working days) rpb18 rpb20 rpb21 rpb16 rpb17 rpb19 RV\* = Rush Verbal: (5 working days) TIME 10:55 AM PM AM PM AM 11/20 3 COLLECTION 7:00 AM 7:00 AM 8:00 AM TIME 7:45 AM 2:30 PM 4:14 AM Shaded area for EEA use only Mike O'Malley, momalley@cityofbentonharbormi.gov BILL TO: DATE 5/7/20 5/7/20 5/7/20 5/5/20 5/7/20 5/8/20 DW-DRINKING WATER WR-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER RELINQUISHED BY (Signature) RELINQUISHED BY: (Signature) awade@cityofbentonharbormi.gov Signature MATRIX CODES: www.EurofinsUS.com/Eaton いて 22 27 (7) 5 LAB Number 3 र्षिश्र REPORT TO: RELINQUISH 10 7 12 13 9 8 6 m 4 S



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

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



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Order #	
Patch #	

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



### LABORATORY REPORT

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

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#### **STATE CERTIFICATION LIST**

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

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



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

# **Laboratory Report**

Client: Benton Harbor, City of Report: 486115

Attn: Michael O'Malley Priority: Standard Written

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

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

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

Report Summary

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

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

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Authorized Signature Title Date

Client Name: Benton Harbor, City of

Report #: 486115

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

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

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

	Lead and Copper												
Analyte 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		05/26/20 15:28	4629474				
7439-92-1	Lead	200.8	15 !	1.0	2.4	ug/L		05/26/20 15:28	4629474				

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

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

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

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	4.4	ug/L		05/26/20 15:34	4629476		
7439-92-1	Lead	200.8	15 !	1.0	29	ug/L		05/26/20 15:34	4629476		

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

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

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

	Lead and Copper											
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	05/21/20 09:55	05/22/20 12:47	4629478			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	05/21/20 09:55	05/22/20 12:47	4629478			

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

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/26/20 15:39	4629479			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 15:39	4629479			

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

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

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

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.3	ug/L		05/26/20 15:56	4629481			
7439-92-1	Lead	200.8	15 !	1.0	22	ug/L		05/26/20 15:56	4629481			

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

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

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

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	7.8	ug/L		05/26/20 16:01	4629483		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:01	4629483		

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

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

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

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

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

	Lead and Copper												
								EEA ID#					
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 16:10	4629486				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:10	4629486				

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

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	36	ug/L		05/26/20 16:12	4629487		
7439-92-1 Lead 200.8 15! 1.0 <b>1.4</b> ug/L 05/26/20 16:12 46											

Sampling Point: RPC 16 Sample 1st Draw

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

PWS ID: MI600

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

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 16:18	4629489			
7439-92-1	Lead	200.8	15 !	1.0	6.4	ug/L		05/26/20 16:18	4629489			

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

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/26/20 16:32	4629490		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 16:32	4629490		

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

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/26/20 16:40	4629491			
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		05/26/20 16:40	4629491			

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

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

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

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/26/20 16:45	4629493		
7439-92-1 Lead 200.8 15! 1.0 <b>11</b> ug/L 05/26/20 16:45 46											

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

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 16:48	4629494			
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/26/20 16:48 46												

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

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

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

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

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

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

Sampling Point: RPC 9 Sample 5th Draw

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	7.5	ug/L		05/26/20 16:59	4629498		
7439-92-1 Lead 200.8 15! 1.0 <b>18</b> ug/L 05/26/20 16:59 4620											

PWS ID: MI600

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

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 17:02	4629499			
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/26/20 17:02 462												

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

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

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

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

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

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/26/20 17:21	4629502			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/26/20 17:21	4629502			

Sampling Point: RPC 14 Sample 5th Draw

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.0	ug/L		05/26/20 17:24	4629503		
7439-92-1 Lead 200.8 15! 1.0 <b>8.3</b> ug/L 05/26/20 17:24 462											

PWS ID: MI600

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

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.9	ug/L		05/26/20 17:27	4629504			
7439-92-1 Lead 200.8 15! 1.0 <b>1.3</b> ug/L 05/26/20 17:27 462												

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

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		05/26/20 17:30	4629505		
7439-92-1 Lead 200.8 15! 1.0 <b>81</b> ug/L 05/26/20 17:30 462											

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

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

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

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

#### **Lab Definitions**

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

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

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

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

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

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

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

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

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

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

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

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



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

Batch #

Order #3 6

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

3

TURNAROUND TIME

3 M. M\$ \* W. **%**  W.

M\$ \* \* \* M\$ #W

	DATE   RECEIVED BY:(Signature)	1 2 2	11011	LAB RESRRVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOU\$ SAMPLES TO CLIENT	SED PORTIONS OF NON-RADEOUS SAMPLES TO CLIENT
	5/5/207		LAB COMMENTS	ENTS	
	AM) PM	AM	AM PM		
RELINCUISHED/BY:(Signature)	DATE TIME RECEIVED BY:(Signature)	DATE TI	TIME		
JAN I	SI JOHN BILLING	1/15/17	R		
12/2/26	5/18/20 AM PM	J 10 AM	AM PM		
RELINQUISHED BY:(Signature)	DATE TIME RECEIVED FOR LABORATORY BY:	DATE TI	TIME CONDITIONS	CONDITIONS UPON RECEIPT (check one):	
		(3) 20cm (3)	(38)	Iced: Wet/Blue Ambient	°C Upon Receipt N/A
	AM PM	AM	PM		
MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES				
DW-DRINKING WATER	SW = Standard Written: (15 working days) 0%	IV* = Immediate Verbal: (3 working days)	il: (3 working days)	100%	
RW-REAGENT WATER	RV* = Rush Verbal: (5 working days) 50%	IW* =Immediate Written: (3 working days)	in: (3 working days)	125%	damples received unannum to with less
EW-EXPOSURE WATER	RW* = Rush Written: (5 working days) 75%	SP* = Weekend, Holiday	ay	CALL	then 48 hours beliefed first sining
SW-SURFACE WATER PW-POOL WATER		STAT* = Less than 48 hours	hours	CALL	
WW-WASTE WATER	* Pies is call, expedited service not available for all testing			0	06-LO-F0435 Issue 6.0 Effective Date: 2016-09-20



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

Batch #

Order #

www.EurofinsUS.com/Eaton			CHA	IN OF	CHAIN OF CUSTODY RECORD	ECORD	an .	Page 2		of 2	
	Shaded area for EEA use only			-			Į				-
REPORT TO:		SAMPLER (Signature)	nre)	-	# DI SMA	STATE (sample origin)	PROJECT NAME	#Od	1		-
Mike O'Malley, momalley@cityofbentonharborni.gov	onharbormi, gov	Mike O'Malley	Restdents	S. A.	009	W					-
BILL TO:			Yes	No	POPULATION SERVED	VED SOURCE WATER	Lead and Copper	805119	50	-	UALI
destable yearty of benton harbornia	ventosherborni.	See MONITORING	×		689'6	Lake Michigan	IST TAIL ZOZO		IBNIATN	CODE	ת מאטט
LAB Number	COLLECTION		SAMPLING SITE		_	TEST NAME	SAMPI F REMARKS	CHLORINATED	1		
	DATE TIME AM	M PM			(			YES NO	T		
1429 487	05/13/20 7:05 AM ×	RPC 15 Sample 1st Draw & 5th Draw	raw & 5th Draw		Lead and Copper 1st Draw & 5th Draw	aw & 5th Draw	1st and 5th	-	-	-	<b>№</b>
784	05/13/20 7:30 AM ×	RPC 16 Sample 1st Draw & 5th Draw	raw & 5th Draw		Lead and Copper 1st Draw & 5th Draw	IW & 5th Draw	1st and 5th	×	2	SW	*
3 1 489	05/13/20 7:30 AM ×		raw & 5th Draw		Lead and Copper 1st Draw & 5th Draw	aw & 5th Draw	1st and 5th	×	2	SW	-
RELINQUISHED BW 35% hature	DATE 5/15/22	TIME RECEIVED BY:(Signature)	gnature)	DATE	TAB COMM	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOW-AQUEOUS SAMPLES TO CLIENT	LYSED PORTIONS OF NON-	NONEOUS SAMPL	ES TO CL		+++++++
RELINQUISHED BY:(Signature)	рате 8/18	TiME RECEIVED BY:(Signature)  /:S7  AM   PM	gnature)	DATE	TIME AM PM						
RELINQUISHED BY:(Signature)		TIME RECEIVED FOR LABORATOR	BORATORY BY:	DATE STORE	TIME (35C)	CONDITIONS UPON RECEIPT (check one):	°C Upon Receipt	Receipt	Z	(AN)	
MATRIX CODES:	TURN-AROUN	TURN-AROUND TIME (TAT) - SURCHARGES	RGES								ľ
DW-DRINKING WATER RW-REAGENT WATER	SW = Standard Writ	days)		IV* = Immediate	IV* = Immediate Verbal: (3 working days)	100%					
GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER	RV* = Rush Verbal: (5 working days)  RW* = Rush Written: (5 working days)	(5 working days) 50% (6 working days) 75%		IW* =Immediate Written: SP* = Weekend, Holiday	IW* =Immediate Written: (3 working days) SP* = Weekend, Holiday	125% CALL	Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.	inounced with le ime remaining fonal charges.	88		
				STAT* = Less than 48 hours	nan 48 hours	CALL					



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

Order#39938 Batch # 18 10/19

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

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

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

ti with less sining argest

Sen ples received union that A8 hours holding de la nay, be subject to a sattle

CALL CALL

125% 100%

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

STAT\* = Less than 48 hours

Piece o call, expedited service act available for all testing

SP\* = Weekend, Holiday

N/A

°C Upon Receipt

Iced: Wet/Blue Ambient

138

218-20cm

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES:

AM PM

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

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

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

Page 15 o

20%

AM PM

AM PM

TIME

DATE

RECEIVED FOR LABORATORY BY:

AM PM B

5/18/20

RELINQUISHED BY: (Signature).

CONDITIONS UPON RECEIPT (check one):



www.EurofinsUS.com/Eaton

Eaton Analytical

110 S. Hill Street

Batch #\_

Order #

South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

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

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

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

Samples received unannounced with less than 48 hours holding time remaining

may be subject to additional charges

CALL CALL

125%

IW\* =Immediate Written: (3 working days)

STAT\* = Less than 48 hours

SP\* = Weekend, Holiday

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

Page 16 of



### LABORATORY REPORT

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

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#### **STATE CERTIFICATION LIST**

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

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



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

## Laboratory Report

Client: Benton Harbor, City of Report: 488775

Attn: Michael O'Malley Priority: Standard Written

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

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

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

**Report Summary** 

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

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

Authorized Signature Title Date

Client Name: Benton Harbor, City of

Report #: 488775

Sampling Point: RPd 1 1st PWS ID: MI600

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.8	ug/L		06/23/20 20:14	4651648		
7439-92-1 Lead 200.8 15! 1.0 <b>23</b> ug/L 06/23/20 20:14 465											

Sampling Point: RPd 2 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III											
7440-50-8	Copper	200.8	1300 !	1.0	33	ug/L		06/23/20 20:17	4651649		
7439-92-1 Lead 200.8 15! 1.0 <b>3.4</b> ug/L 06/23/20 20:17 465											

Sampling Point: RPd 3 1st PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	45	ug/L		06/23/20 20:20	4651650			
7439-92-1 Lead 200.8 15! 1.0 <b>11</b> ug/L 06/23/20 20:20 465												

Sampling Point: RPd 4 1st PWS ID: MI600

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

Sampling Point: RPd 5 1st PWS ID: MI600

	Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed EEA ID #													
7440-50-8	Copper	200.8	1300 !	1.0	3.9	ug/L		06/23/20 17:45	4651652				
7439-92-1	139-92-1 Lead 200.8 15! 1.0 <b>1.4</b> ug/L 06/23/20 17:45 4651652												

Sampling Point: RPd 6 1st PWS ID: MI600

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

Sampling Point: RPd 7 1st PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit Units Date											
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		06/23/20 17:56	4651654		
7439-92-1 Lead 200.8 15! 1.0 <b>17</b> ug/L 06/23/20 17:56 465											

Sampling Point: RPd 1 5th PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		06/23/20 17:59	4651655		
7439-92-1 Lead 200.8 15! 1.0 <b>2.4</b> ug/L 06/23/20 17:59 465											

Sampling Point: RPd 2 5th PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		06/23/20 18:01	4651656			
7439-92-1 Lead 200.8 15! 1.0 <b>2.9</b> ug/L 06/23/20 18:01 46												

Sampling Point: RPd 3 5th PWS ID: MI600

	Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit													
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		06/23/20 18:04	4651657				
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 <b>3.9</b> ug/L 06/23/20 18:04 4651												

Sampling Point: RPd 4 5th PWS ID: MI600

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	7.5	ug/L		06/23/20 18:07	4651658		
7439-92-1											

Sampling Point: RPd 5 5th PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit IIII											
7440-50-8	Copper	200.8	1300 !	1.0	1.2	ug/L		06/23/20 18:10	4651659		
7439-92-1 Lead 200.8 15! 1.0 <b>1.6</b> ug/L 06/23/20 18:10 4651											

Sampling Point: RPd 6 5th PWS ID: MI600

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

Sampling Point: RPd 7 5th PWS ID: MI600

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

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

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

#### **Lab Definitions**

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

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

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

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

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

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

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

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

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

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

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

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



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 of Order# 3 9 9910
T: 1.800.332.4345
F: 1.574.233.82070 of Batch # 48877

DIN 6/17/2020

www.EurofinsUS.com/Eaton	for GEA us	only.				CHAIN OF	CHAIN OF CUSTODY RECORD	CORD		Pags	-	ď	-	1
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				Mike O'Malley			009	IW	1		#5		-	
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BILL 10:				COMPLIANCE MONITORING	× ×	ON -	POPULATION SERVED 9,639	SOURCE WATER	last round Lead and Copper Testing		S45146	SABNIA	ODE	מארו כואני
LAB Number		COLLECTION			S SNI IGMAS	2	31				CHLORINATED		BIX CC	עאאטנ
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1 cites 1 ley 8	06/09/20	5:15		× RPd 1	765	655	Lead and Copper 1st Draw and 6th Draw	and 6th Draw	100	2 ×	2	+	+	u 3
2 1 Gard	06/10/20	7:45	×	RPD 2	-	959	L5ad and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		+	+	3
3 (650	06/10/20	7:00	×	RPd 3		150	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		+	+	35
4 (05)	06/10/20	8;30	×	RPd 4		658	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	١
5 654	06/10/20	7:00	×	RPd 5		659	Lead and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	١
6 652	06/10/20	4:00	×	RPd 6		660	L§ad and Copper 1st Draw ang 5th Draw	ang 5th Draw	1st&5th	×		2	SW	35
7 to (054)	06/10/20	8:00	×	RPd 7	3	10101								] ]
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RELINAUSHEU BY: (Signeture)	© \	DATE 6/17/20	TIME 25.5	V E	ture)	DATE	TIME PM							
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MATRIX CGDES:		TURN-AROUND TIME (TAT)	T GNU	IME (TAT) - SURCHARGES	Si		ZW FM			1		1		
DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER		SW = Standard Written: (15 working RV* = Rush Verbal: (5 working days)	d Written: (5 wo	SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50%		IV* = Immediat	IV" = Immediate Verbal: (3 working days) 10 IW" =Immediate Written: (3 working days) 12	100% 125%	o manufactured internations	900000000000000000000000000000000000000				
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# LABORATORY REPORT

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# **STATE CERTIFICATION LIST**

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

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



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

# **Laboratory Report**

Client: City of Benton Harbor Report: 485017

Attn: Michael O'Malley Priority: Standard Written

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

	S	ample Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4621306	RP2 1st Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621307	RP3 1st Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621308	RP4 1st Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621309	RP5 1st Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621310	RP6 1st Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621311	RP7 1st Draw	200.8	04/28/20 21:00	Client	05/04/20 14:45
4621312	RP9 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621313	RP11 1st Draw	200.8	04/29/20 12:00	Client	05/04/20 14:45
4621314	RP13 1st Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621315	RP14 5A	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621316	RP15 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621317	RP16 1st Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45
4621318	RP17 1st Draw	200.8	04/28/20 21:38	Client	05/04/20 14:45
4621319	RP19 1st Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621320	RP21 1st Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621321	RP23 1st Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621322	RP24 1st Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621323	RP25 1st Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621324	RP10 1st Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45
4621325	RP2 5th Draw	200.8	04/30/20 10:00	Client	05/04/20 14:45
4621326	RP3 5th Draw	200.8	04/28/20 19:00	Client	05/04/20 14:45
4621327	RP4 5th Draw	200.8	04/28/20 10:00	Client	05/04/20 14:45
4621328	RP5 5th Draw	200.8	04/29/20 05:30	Client	05/04/20 14:45
4621329	RP6 5th Draw	200.8	04/29/20 09:21	Client	05/04/20 14:45
4621330	RP7 5th Draw	200.8	04/28/20 09:00	Client	05/04/20 14:45
4621331	RP9 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621332	RP11 5th Draw	200.8	04/29/20 00:00	Client	05/04/20 14:45
4621333	RP13 5th Draw	200.8	04/29/20 08:00	Client	05/04/20 14:45
4621334	RP14 5B	200.8	04/29/20 08:17	Client	05/04/20 14:45
4621335	RP15 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621336	RP16 5th Draw	200.8	04/29/20 05:00	Client	05/04/20 14:45

4621337	RP17 5th Draw	200.8	04/28/20 23:38	Client	05/04/20 14:45
4621338	RP19 5th Draw	200.8	04/28/20 21:36	Client	05/04/20 14:45
4621339	RP21 5th Draw	200.8	04/29/20 06:00	Client	05/04/20 14:45
4621340	RP23 5th Draw	200.8	04/30/20 04:00	Client	05/04/20 14:45
4621341	RP24 5th Draw	200.8	04/28/20 18:00	Client	05/04/20 14:45
4621342	RP25 5th Draw	200.8	04/29/20 07:00	Client	05/04/20 14:45
4621343	RP10 5th Draw	200.8	04/30/20 00:00	Client	05/04/20 14:45

## **Report Summary**

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

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

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

Authorized Signature Title Date

Client Name: City of Benton Harbor

Report #: 485017

Sampling Point: RP2 1st Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/08/20 11:26	4621306
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:26	4621306

Sampling Point: RP3 1st Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 11:29	4621307
7439-92-1	Lead	200.8	15 !	1.0	1.2	ug/L		05/08/20 11:29	4621307

Sampling Point: RP4 1st Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/08/20 11:36	4621308
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:36	4621308

Sampling Point: RP5 1st Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	9.0	ug/L		05/08/20 11:38	4621309
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:38	4621309

Sampling Point: RP6 1st Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.5	ug/L		05/08/20 11:41	4621310
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:41	4621310

Sampling Point: RP7 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	150	ug/L		05/08/20 11:43	4621311			
7439-92-1	Lead	200.8	15 !	1.0	5.2	ug/L		05/08/20 11:43	4621311			

Sampling Point: RP9 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III											
7440-50-8	Copper	200.8	1300 !	1.0	2.1	ug/L		05/08/20 11:45	4621312		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 05/08/20 11:45 46											

Sampling Point: RP11 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	5.7	ug/L		05/08/20 11:48	4621313		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 11:48	4621313		

Sampling Point: RP13 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	3.0	ug/L		05/08/20 11:50	4621314			
7439-92-1	Lead	200.8	15 !	1.0	1.3	ug/L		05/08/20 11:50	4621314			

Sampling Point: RP14 5A PWS ID: MI600

	Lead and Copper												
Analyte Analyte Method Reg Limit Result Units Preparation Analyzed EEA ID#													
7440-50-8	Copper	200.8	1300 !	1.0	3.0	ug/L		05/08/20 11:53	4621315				
7439-92-1	Lead	200.8	15 !	1.0	7.2	ug/L		05/08/20 11:53	4621315				

Sampling Point: RP15 1st Draw PWS ID: MI600

Lead and Copper											
								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:00	4621316		
7439-92-1	Lead	200.8	15 !	1.0	1.7	ug/L		05/08/20 12:00	4621316		

Sampling Point: RP16 1st Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	130	ug/L	05/11/20 11:10	05/12/20 13:37	4621317			
7439-92-1												

Sampling Point: RP17 1st Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	17	ug/L		05/08/20 12:02	4621318		
7439-92-1	Lead	200.8	15 !	1.0	3.5	ug/L		05/08/20 12:02	4621318		

Sampling Point: RP19 1st Draw PWS ID: MI600

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	8.9	ug/L		05/08/20 12:10	4621319			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:10	4621319			

Sampling Point: RP21 1st Draw PWS ID: MI600

	Lead and Copper											
									EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/08/20 12:12	4621320			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:12	4621320			

Sampling Point: RP23 1st Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	17	ug/L		05/08/20 12:14	4621321		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:14	4621321		

Sampling Point: RP24 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit III											
7440-50-8	Copper	200.8	1300 !	1.0	2.3	ug/L		05/08/20 12:17	4621322		
7439-92-1											

Sampling Point: RP25 1st Draw PWS ID: MI600

Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	6.8	ug/L		05/08/20 12:19	4621323			
7439-92-1	Lead	200.8	15 !	1.0	3.8	ug/L		05/08/20 12:19	4621323			

Sampling Point: RP10 1st Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		05/08/20 12:22	4621324		
7439-92-1	Lead	200.8	15 !	1.0	3.0	ug/L		05/08/20 12:22	4621324		

Sampling Point: RP2 5th Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	1.1	ug/L		05/08/20 12:24	4621325		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:24	4621325		

Sampling Point: RP3 5th Draw PWS ID: MI600

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:27	4621326		
7439-92-1	Lead	200.8	15 !	1.0	1.6	ug/L		05/08/20 12:27	4621326		

Sampling Point: RP4 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.5	ug/L		05/08/20 12:39	4621327			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:39	4621327			

Sampling Point: RP5 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	6.1	ug/L		05/08/20 12:41	4621328		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:41	4621328		

Sampling Point: RP6 5th Draw PWS ID: MI600

Lead and Copper												
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	1.4	ug/L		05/08/20 12:48	4621329			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:48	4621329			

Sampling Point: RP7 5th Draw PWS ID: MI600

	Lead and Copper												
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		05/08/20 12:51	4621330				
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 12:51	4621330				

Sampling Point: RP9 5th Draw PWS ID: MI600

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	2.6	ug/L		05/08/20 12:53	4621331		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:53	4621331		

Sampling Point: RP11 5th Draw PWS ID: MI600

	Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	4.0	ug/L		05/08/20 12:56	4621332			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:56	4621332			

Sampling Point: RP13 5th Draw PWS ID: MI600

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 12:58	4621333		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 12:58	4621333		

Sampling Point: RP14 5B PWS ID: MI600

Lead and Copper											
Analyte								EEA ID#			
7440-50-8	Copper	200.8	1300 !	1.0	1.6	ug/L		05/08/20 13:00	4621334		
7439-92-1	Lead	200.8	15 !	1.0	10	ug/L		05/08/20 13:00	4621334		

Sampling Point: RP15 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	< 1.0	ug/L		05/08/20 13:03	4621335
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:03	4621335

Sampling Point: RP16 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.7	ug/L		05/08/20 13:05	4621336
7439-92-1	Lead	200.8	15 !	1.0	1.0	ug/L		05/08/20 13:05	4621336

Sampling Point: RP17 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	8.6	ug/L		05/08/20 13:12	4621337
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 13:12	4621337

Sampling Point: RP19 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	7.2	ug/L		05/08/20 13:15	4621338
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:15	4621338

Sampling Point: RP21 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.7	ug/L		05/08/20 13:22	4621339
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:22	4621339

Sampling Point: RP23 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	4.2	ug/L		05/08/20 13:24	4621340
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:24	4621340

Sampling Point: RP24 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	2.4	ug/L		05/08/20 13:27	4621341
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		05/08/20 13:27	4621341

Sampling Point: RP25 5th Draw PWS ID: MI600

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.3	ug/L		05/08/20 13:29	4621342
7439-92-1	Lead	200.8	15 !	1.0	5.1	ug/L		05/08/20 13:29	4621342

Sampling Point: RP10 5th Draw PWS ID: MI600

			Le	ad and (	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	1.9	ug/L		05/08/20 13:32	4621343
7439-92-1	Lead	200.8	15 !	1.0	9.2	ug/L		05/08/20 13:32	4621343

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

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

#### **Lab Definitions**

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

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

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

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

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

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

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

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

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

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

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

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



Eaton Analytical

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

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Order # Batch #

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BILL TO:	y, monancy according	District of the control of the contr					Yes	No	POPULATION SERVED	SOURCE WATER	Lead and Copper	895106		ch:	MIT
awade@cib	awade@cityofbento <u>nharb</u> ormi.gov	×				COMPLIANCE	×		689'6	Lake Michigan				CODE	מסטאם .
	LAB Number		COLLECTION	×		1S	SAMPLING SITE		TEST NAME	ME	SAMPLE REMARKS	CHLORINATED			IANA
		DATE	TIME	AM	PM							YES	ON	-	UT
1 1/10	31206	04/30/20	10:00	×	2	RP2 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	M5
2	207	04/28/20	7:00		×	RP3 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
3	308	04/28/20	10:00	×	×	RP4 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
4	309	04/29/20	5:30	×	~	RP5 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
- 40	210	04/29/20	9:21	×	2	RP6 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
9	311	04/28/20	9:00		×	RP7 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each gite 1st Draw; 5th Draw	3 1st Draw; 5th Draw	each site 2 sample	×		2 SW	\$W
7	200	04/29/20	8:00	×		RP9 1st Draw and 5th Draw Samples	Traw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	3 1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
	213	04/29/20	12:00	×	~	RP11 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	s 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
0	212	04/29/20	8:00	×	2	RP13 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
10	315	04/29/20	8:17	×	~		1st Draw and 5th Draw Samples **		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
11	215	04/29/20	6:00	×	~	RP15 1st Draw and 5th	1st Draw and 5th Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
12	Cia	04/29/20	5:00	×	- 22		Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
13	318	04/28/20	11:38		×	RP17 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each gite 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	WS.
14	319	04/28/20	9:36		×	RP19 1st Draw and 5th Draw Samples	Draw Samples		2 lead and copper tests each site 1st Draw; 5th Draw		each site 2 sample	×	-	2 SW	M <sub>S</sub>
RELINQUI	RELINQUISHED BY:(Signature)	9	DATE			RECEIVED BY:(Signature)	ature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS, SAMPLES TO CLIENT	JSED PORTIONS OF NON-	AQUEOU\$ SAME	PLES TO C	JENT	1
	OEI MONIGHEN BY CEINE	X	5 4 20	N V	AM PM	RECEIVED BY (Schuatura)	Ca	5/4 DATE	AMI PM * BOUTH	Boatle ave	(5) provous		SCHEW CO	020	9
7	NA	9	7/5		1 112				MA PM						
REINNOU	REINIQUISHED BY: (Signature)	0	DATE		TIME	RECEIVED FOR LABORATORY BY:		DATE LI. 202C	DATE TIME GONDITIONS UPON RECEIPT (check one):	RECEIPT (check one):	nodu 2º	°C Upon Receipt		( §	
				AM	PM	K I June			AM PM				1	1	
	CHARLE STREET		TILIDAI AF		THE PERSON	TATA CITOCHANIC									

STAT\* = Less than 48 hours

EW-EXPOSURE WATER

OG-LO-F0435 Issue 6.0 Effective Date. 2000 of the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by OSEEA.

125% 100%

IV" = Immediate Verbal: (3 working days)

%0

SW = Standard Written: (15 working days)

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

MATRIX CODES:



www.EurofinsUS.com/Eaton

# Eaton Analytical

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

Batch # Order#

Shaded area for EEA use only	A nea only				1000					
REPORT TO:		SAMPLER (Signature)		#MS ID #		STATE (sample origin)	PROJECT NAME	#0d		
Mike O'Mallev, momallev@citvofbentonharborni.gov	mi.gov	Mike O'Malley BH	Ros. Dents	009		M				
BILL TO:		COMPLIANCE	Yes	No POPULATION SERVED 9,639		SOURCE WATER Lake Michigan	Lead and Copper 1st Half of 2020	S05160	2ЯЭИIAT	ODE TIM
awade@cityofbentonharbymi.gov LAB Number	COLLECTION	SAI	SAMPLING SITE		TEST NAME		SAMPLE REMARKS	₹	OE CON	O XIRTAI
VCC.	TIME					T		XES NO	+	+
2001 2011	6:00		oraw Samples	2 lead and copper test	2 lead and copper tests each site 1st Draw; 5th Draw	T	each site 2 sample	×	+	+
200	× ×		raw samples	z lead and copper test	A lead and copper tests each site 1st Draw; but Draw	T	each site z sample	×	+	╁
33 04/28/20	3/20 6:00 ×	RP24 1st Draw and 5th Draw Samples RP25 1st Draw and 5th Draw Samples	raw Samples raw Samples	2 lead and copper test	2 lead and copper tests each site 1st Draw; 5th Draw 2 lead and copper tests each site 1st Draw; 5th Draw		each site 2 sample	×		-
11   12   13   14   15   15   15   15   15   15   15	DATE TIME	RECEIVED BY:(Signature)		DATE TIME LABRES	SERVES THE RIC	HT TO RETURN UNUS	SED PORTIONS OF NON-AQ	OU:00 PUT	TO CLIENT	
RELINQUISHED'SY'(Signature)	DATE TIME	RECEIVED FOR LABORATORY BY	27.5	TIME TIME	CONDITIONS UPON RECEIPT (check one):	ck one):	°C Upon Receipt	Receipt	(ANA	
MATRIX CÓDES:  DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - S SW = Standard Written: (15 working days) RW* = Rush Written: (5 working days) RW* = Rush Written: (5 working days)	TURN-AROUND TIME (TAT) - SURCHARGES  SW = Standard Written: (15 working days) 0%  RV* = Rush Verbal: (5 working days) 75%  RW* = Rush Written: (5 working days) 75%		t d e e	100% 125% CALL CALL		Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.	nounced with less inne remaining ional charges.		

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



Eaton Analytical

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

www.EurofinsUS.com/Eaton						CHAIN OF	CHAIN OF CUSTODY RECORD	RD	51.50	Page 1	o	2	
Shaded area for EEA use only	for EEA use	only		1								Н	
REPORT TO:					SAMPLER (Signature)	(	# QI SMd	STATE (sample origin)	PROJECT NAME	#0q			
wite o'miller	الم			_	Mike O'Malley 3 H	4 Residents	009	¥					3
Mike O'Malley, momalley@cityorbentonharbormi.gov BILL TO:	tonharbormi.gov					Yes No	POPULATION SERVED	SOURCE WATER	Lead and Copper 1st Half of 2020	505106	58:	المالية	BMIT
on bankanian	2				COMPLIANCE	×	6:93	Lake Michigan			3NIATN	CODE	מטטט
LAB Number		COLLECTION	7		8	SAMPLING SITE	TEST NAME	ME	SAMPLE REMARKS	CHLORINATED			AANA
	DATE	TIME	AM	Md	5					YES NO	Т		IJΤ
14162122S	04/30/20	10:00	×	H	RP2 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	2	SW	W\$
336	04/28/20	7.00		×		Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	2	SW	M57
	04/28/20	10:00	×		RP4 1st Draw and 5th Draw Samples	raw Samples	2 lead and copper tests each gite 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	2	SW	WS.
	04/29/20	5:30	×		RP5 1st Draw and 5th Draw Samples	raw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
	04/29/20	9.21	*			Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	W5
	04/28/20	9.00	-	×	RP7 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×	-	2 SW	3W
0	04/29/20	8.00	*		RP9 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	1st Draw; 5th Draw	each site 2 sample	×		2 SW	SW.
222	04/29/20	12:00	*	ij	RP11 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	8	z sw	3W
222	04/29/20	8:00	×			Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
7	04/29/20	8:17	*			1st Draw and 5th Draw Samples *	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	3W
10	04/29/20	6.00	*	15		h Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	2 SW	8W
	04/29/20	5.00	*			Draw Samples	2 lead and copper tests each gite 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	W\$
737	04/28/20	11:38	-	×	RP17 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	WS.
->	04/28/20	9:36			RP19 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×		2 SW	₩.
RELINQUISHED BY: (\$idpature)		DATE	F	TIME	RECEIVED BY:(Signature)	ature) DATE	TIME	LAB RESSERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS, SAMPLES TO CLIENT	USED PORTIONS OF NON-	AQUEOU\$ SAMPL	ES TO CI	IENT	1
Mexicology	. 8	02 P/S		1-1		Ca	AMI PM * BUCH BOTHEN COLL	and the second second	monted (5) osotooo	0 (5	305	020	Q.
RELINGUISHED BY: (Signature)	) (e)	DATE	70	JIME 0.15	RECEIVED BY:(Signature)	ature) J UATE	IIME			+			70-0
A14 010 26	3	ナス	A A	AM CEM			AM PM						
REINIQUISHED BY:(Signature)	(e)	DATE	F	TIME	RECEIVED FOR LABORATORY	DATE TIME $ \begin{array}{cccc}     & \text{DATE} \\     & \text{DATE} \end{array} $ $ \begin{array}{ccccc}     & \text{DATE} \\     & \text{DATE} \end{array} $	COMDITIONS	UPON RECEIPT (check one): loed: Wet/Blue	nodu D*	°C Upon Receipt	\	( AN	
		1	AM	AM PM	1	)	AM PM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	1	1

RW-REAGENT WATER

W-EAGORIT WATER

WATER

W-EAGORIT WATER DW-DRINKING WATER
W-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFOCK WATER
PW-POOL WATER
WW-POOL WATER

125% 100%

IV\* = Immediate Verbal: (3 working days)

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES:

%0

SW = Standard Written: (15 working days)



Eaton Analytical

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

Order # Batch #

www.euroinsos.com/eaton	vitae est		CHAIN OF	<b>CHAIN OF CUSTODY RECORD</b>	RD		Page 2	ď	2
REPORT TO:		SAMPLER (Signature)		PWS ID #	STATE (sample origin)	PROJECT NAME	#0d	F	H
Mike O'Mallev, momallev@citvorbentonharbormi.gov	bormi,gov	MIKe O'Malley 3 H	Ros. Sents	009	W				
BILL TO:		COMPLIANCE MONITORING	Yes	POPULATION SERVED 9,639	SOURCE WATER Lake Michigan	Lead and Copper 1st Half of 2020	S05160	2ЯЭИIАТИ(	CODE
	COLLECTION DATE TIME AM PM		SAMPLING SITE	TEST NAME	мЕ	SAMPLE REMARKS	CHLORINATED YES NO		XIATAM
41021229	× 00:9	RP21 1st Draw and 5th Draw Samples	Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
370	4:00		Draw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
341	6:00	1	raw Samples	2 lead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
340	7:00 ×	RP25 1st Draw and 5th Draw Sai	Draw Samples	2 ead and copper tests each site 1st Draw; 5th Draw	e 1st Draw; 5th Draw	each site 2 sample	×	2	SW \$W
8 9 9 10 11 12 13 14 RELINQUISHED BY: (Signature)	DATE TIME  5 4 12 AM PM  DATE TIME	RECEIVED BY: (Signature)	ture)  ACRES  5.4  ture)  DATE	TIME JAB COM	UAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOWAQUEOUS SAMPLES TO CLENT  FENTS  WELL LULL  OSUC 1010	USED PORTIONS OF NOWAO	QUEOUS SAMPLES TO CLENT	PUL	
RELINQUISHED 84" (Signature)	DATE TIME	RECEIVED FOR LABORATOR	RATORY BY: DATE	TIME TIME	CONDITIONS UPON RECEIPT (check one):	© Upon Receipt	- Julieoe)	AIN	
MATRIX CÓDES:  DW-DRINKING WATER RW-REAGENT WATER BW-REAGENT WATER SW-SURE WATER SW-SURFACE WATER TW-POOL WATER WW-WASTE WATER	TURN-AROUND TIME (TAT) - S SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days) RW* = Rush Written: (5 working days) * Please call, expedited service n	TURN-AROUND TIME (TAT) - SURCHARGES  SW = Standard Written: (15 working days) 0%  RY = Rush Verbai: (5 working days) 50%  RW = Rush Written: (5 working days) 75%  Please call, expedited service not available for all testing	ES  W=Immer  W=immer  Sp*=Weel  STAT*=Le	MATRIX CODES: TURN-AROUND TIME (TAT) - SURCHARGES  DW-DRINKING WATER  SW = Standard Written: (15 working days)  DW-BRIAGENT WATER  SW = Rush Verbai: (3 working days)  Verbai: (3 working days)  Verbai: (3 working days)  Verbai: (3 working days)  Verbai: (4 The Rush Verba		Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.  08-LO-F0435 Issue 6.0 Effective Da	nounced with less fond or remaining fond charges.	e: 2016-09	.50



## **PURCHASE REQUISITION**

TERM:

TO BE FILLED	IN BY
<b>PURCHASING</b>	<b>AGENT</b>

PURCHASE ORDER#\_\_\_\_\_

# REQUISITION #: \$05106

DATE: 5 20 Woter Dist Souphy configur

PURCHASIN VENDOR:		St, S	50 th Bend IN 46617	ONTACT NAI	ME: Pe	62-434		TMENT
ACCOUNT	WHERE USED	QUANTITY	DESCRIPTION	UNIT	PRICE	EXTENSION	TRADE DISCOUNT	NET PRICE
1.	0325		18 Sample 1:tes 2 Each	ESTIMATE	QUOTED		2,000	
		36	Lend & Copper testing					
7	0		( ( ( ) )					
V Dala	J							
1/Xh								
My.							1	
10				-				

APPROVAL SIGNATURE:

Berrien County Printing

MI 0600 Benton Heibor Lead & Copper June 2000

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



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

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

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

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

	1. Supp	oly Name:	Benton Harbo	r				
	2. Cour	ntv:	Berrien			3. W	SSN:	0600
		ulation:	9670	5. M	onitoring Period:	From: 1/1/2020	То	: 6/30/2020
			amples Require	ed:	60	7. # of Samples	Taken:	63
			ed Laboratory:		Eurofins Eaton Ar	nalytical, South Ben	d IN.	
MPLE	E CRITE	ERIA:					aamal	as from sites WITh
his	form is	s for wate LEA	r supplies co D SERVICE I	llect	ting <u>some</u> or <u>all</u> S. All other sup	plies should use	Form	es from sites WITh B.
es l	No							
X		Are some o	or all samples fro	om s	ites WITH lead ser	vice lines?		
10.0					vice line, STOP and		F	or more information
	П	Did pri	oritizo comple c	oller	tion according to the	ne following:	27.00	ee Instructions item 1 Fier and Sample
X		Tion 4	situe must he us	I has	inless insufficient i	lei I Siles available		ategory" at the end of
		IE import	Goignt Tion 2 site	ac th	ien Tier 3 sites mu	sites must be used st be used.	1	ne document.
		If we T	ar 4 2 or 3 cite	C 20	available, sites m	ust be representati	ve n	
		of plun	nbing materials	typic	ally found throught	out the water system	riod?	
	х	Were the s	same sampling s ain (attach add	sites	used as in the pre al pages if needed)	vious monitoring pe		-1 -1
	1 1	505	1 ses de	-	o become	e goine a	hese	& some were
3.01		7 70	0 1 1					
The	nments: re were	some samp	oling locations th	nat w	ere sampled in pre	evious years.		
Mos	t were l	ikely new lo	cations.			brace.	doc	ment is
7	his	Preform	reted EE	118	Very on	1 20		- 0
de	179	heid	to use.		Try it one	in word	Muc	FIMEN I
						A 11		M
	IATURE		1			MA		
Name	e: <b>/</b> (2	ke O)	lalley		Signature:	Jarth -		11/4
Title	e: Wal	for Opes	ually aforth co	Les	Phone:	169 363-05	25 Da	te: 1/2/20
			tance Center		Michigan.gov/EG	<u>SLE</u>	te	evised EQF Rev.
epho	ne:1-80	0-662-9278	3		Page 1 of 10			

MI 0600 Benton Hesbor Lead Caper 1/1/20 to 6/20/20 Pleines

rpb4	rpb3	rpb2	rpb1	Inha I	RP25	RP24	RP23	RP21	RP19	RP17	RP16	RP15	RP14	RP13	RP11	RP10	RP9	RP7	RP6	RP5	RP4	RP3	RP2		Location	Sample			Sheet (
5/6/2020	5/7/2020	5/6/2020	2/02/202	5/6/2020	4/29/2020	4/28/2020	4/30/2020	4/29/2020	4/28/2020	4/28/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/29/2020	4/28/2020	4/29/2020	4/29/2020	4/28/2020	4/28/2020	4/30/2020			Sample Date	1		of 7
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Kitchen 0.0	Kitchen 1.8	Kitchen 0.0	ely Kitchen 1.1	Kitchen	Kitchen 1.1	Kitchen 3.8	Kitchen	Kitchen 0	Kitchen	Kitchen 0	Kitchen 3.5	Kitchen 440	Kitchen 1.7	7.2	1.3	Kitchen 0	Kitchen 3	Kitchen 0	5.2	0	0	0	1.2	Kitchen 0			Kitchen	Тар Туре	
Kitchen 0.0 8.7	Kitchen 1.8 13.0	Kitchen 0.0 37.0	ely Kitchen 1.1	Kitchen	1.1 9.4	Kitchen 3.8 6.8	Kitchen 0 2.3	Kitchen 0 17	Kitchen 0 2.3	Kitchen 0 8.9	Kitchen 3.5 17	Kitchen 440 130	Kitchen 1.7 0	7.2 3	1.3	Kitchen 0 5.7	Kitchen 3 1.3	Kitchen 0 2.1	5.2 150	0 2.5	0 9	0 2.5	1.2 0	Kitchen	ug/L	Lead Copper	Kitchen	+	
Kitchen 0.0 8.7	Kitchen 1.8 13.0	Kitchen 0.0 37.0	ely Kitchen 1.1 0 4624127	1 1 0 4624127	1.1 9.4	Kitchen 3.8	Kitchen 0 2.3 4621323	Kitchen 0 17	Kitchen 0 2.3	Kitchen 0 8.9	Kitchen 3.5	Kitchen 440	Kitchen 1.7	7.2 3	1.3	Kitchen 0	Kitchen 3	Kitchen 0 2.1	5.2 150	0	0	0	1.2	Kitchen 0 1.4	ug/L ug/L Number ug/L	Lead Copper Lab Lead	Kitchen	Tap Type	
Kitchen 0.0 8.7 4624130	Kitchen 1.8 13.0 4624129 3.4	Kitchen 0.0 37.0 4624128 0.0	ely Kitchen 1.1 0 4624127 2	1 1 0 4624127	1.1 9.4 4624126	Kitchen 3.8 6.8 4621324 5.1	Kitchen 0 2.3 4621323 0	Kitchen 0 17 4621322 0	Kitchen 0 2.3 4621321 0	0 8.9 4621320 0	Kitchen 3.5 17 4621319 5.1	Kitchen 440 130 4621318 1	Kitchen 1.7 0 4621317 0	7.2 3 4621316 10 1.6	1.3 3 4621315 0 0	Kitchen 0 5.7 4621314 0 4	Kitchen 3 1.3 4621313	Kitchen 0 2.1 4621312	5.2 150 4621311	0 2.5 4621310	0 9 4621309	0 2.5 4621308	1.2 0 4621307 1.6 0	Kitchen 0 1.4 4621306 0 1.1	ug/L ug/L Number ug/L ug/L Ni	Lead Copper Lab	Kitchen	Тар Туре	

If you tried to Gill in Pige 1 of the report trydoing this Rise this Even!

11. TAP SAMPLING DATA

KPC 10	00010	RPC 9	RPC 8	RPC 7	2007	RPC 6	RPC 5	RPC 4	RPC 3	RPC 2	RPC 1	rpb21	rpb20	rpb19	rpb18	rpb17	rpb16	rpb15	rpb13	rpb12	rpb11	rpb10	rob9	rpb8	rpb7	rpb6			-	ocation	Sample		
01001000	5/13/2020	5/13/2020	5/13/2020	2/13/2020	5/12/2020	5/13/2020	5/12/2020	5/12/2020	5/13/2020	5/13/2020	5/13/2020	5/8/2020	5/7/2020	5/5/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/7/2020	5/8/2020	-			Sample Date	Complete Control	+	
	1 A	1 A	IA	2 2	1 A	1 A	1 A	1 A	1 A	J A	1 A	1 A	1 A	1 A	1 A	J. A	A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	1 A	IA						7	Tier Category
Linknown	Unknown	Unknown	Clikilowii	Linknow	Unknown	Unknown	Unknown	Unknown	Unknown	Unkriown	Unkriown	Unkriown	Unknown	Unknown	Unkriown	Unknown	Unknown	Unknown	Unknown	UNKNOWN	UNKNOWN	Unknown	Unknown	UNKNOWN	CHKIOWII	CHANGAN	Ilhkhown			Ulkriowii	Inknows	Plumbing	'Building
	_			_	n very Likely	-	-	_	_	_		-	-	_	_	_	-	-	very Likely	VERY LIKELY	Very Likely	likely	VERY LINEIY	Very Likely	VERY Likely	very Likely	very likely	Lead in area	Unknown =	nearby	Likely = lead	known	Service Line
very likely	kely	Ely	N I	V	~	1	1	1	1	1	1	1	1	1	ſ	ſ	1			-1	1		4										+
likely Kitchen		1	1	ly Kitchen	y Kitchen	1	Vitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Kitchen	Vitchon	Kitchen	Kitchen	Kitchen	Kitchen		-			Kitchen	lap Type
Kitchen	Kitchen	Niccircii	Kitchen	Kitchen	Kitchen	Nicoloni	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Kitchen 2.4		ug/L		Lead C	Kitchen	1 51
Kitchen	Kitchen	Nicolon	Kitchen 22	Kitchen 1.5	Kitchen	Niccion	0	0	29	1.5	2.4	0	3,5	100.0	0.0	0.0	0.0	2.4	6.2	0.0	8.5	9.2	5.7	3.6	21.0	0.0	2.4		ug/L		Lead Copper	Kitchen	1 51
Kitchen	Kitchen	Nitchen 0 0	Kitchen 22 7.3	Kitchen 1.5 9.1	Kitchen	Nitches 0 2.5	0 18	0 3.2	29 4.4	1.5 2.6	2,4 2.1	0 10	3.5 230.0	100.0 5.4	0.0 2.2	0.0 1.2	0.0 1.4	2.4 1.7	6.2 48.0	0.0 4.1	1	9.2 2.0	5.7 2.3	3.6 1.1	1	1			ug/L			Kitchen	
Kitchen U /.0 4023403	Kitchen	Nitchen 0 0	Kitchen 22	Kitchen 1.5 9.1 4629480	Kitchen	Nicoleii 0 2.5	0 18	0 3.2	29 4.4	1.5 2.6	2.4	0	3,5	100.0	0.0 2.2	0.0 1.2	0.0 1.4	2.4 1.7	6.2 48.0	0.0 4.1	8.5 6.4	9.2 2.0	5.7 2.3	3.6 1.1	21.0 4.4	0.0 3.2	2.4 1.7		ug/L Number ug/L	Sample	Copper Lab Lead		1 <sup>st</sup> Liter Samble
Kitchen 0 /:0 +025705	Kitchen 78 /629483	0 4629482	Kitchen 22 7.3 4629481	Kitchen 1.5 9.1 4629480	Kitchen	0 2.5 4629479	0 18 4629478	0 3.2 4629477	29 4.4 4629476 11	1.5 2.6 4629475 1.5	2.4 2.1 4629474 2 1	0 10 4629473 0	3.5 230.0 4624145	100.0 5.4 4624144 5.3	0.0 2.2 4624143 0.0	0.0 1.2 4624142 0.0	0.0 1.4 4624141	2.4 1.7 4624140 1.3	6.2 48.0 4624139	0.0 4.1 4624138	8.5 6.4 4624137 5.3	9.2 2.0 4624136	5.7 2.3 4624135	3.6 1.1 4624134 7.9	21.0 4.4 4624133	0.0 3.2 4624132 0.0	2,4 1.7 4624131 1.3		ug/L Number	Sample	Copper Lab Lead mg/L	Kitchen	1 51

11. TAP SAMPLING DATA

Oligon	Tier	Tier	Category A	Building Plumbing	Service Line Very Likely ≈ known	x d	Tap Type Kitchen	la.	la.	titchen 1 <sup>st</sup> Liter Sample	1 <sup>st</sup> Liter Sample
Sample	Sample Date			Unknown	Likely = lead nearbv Unknown =			Lead (	ad Copper	ad Copper Lab Sample ug/L Number	ad Copper Lab Lead Sample ug/L Number ug/L
					Lead in area	Σ.	Kitchen	chen 2.2	2.	2.2	2.2 5
RPC 12	5/13/2020		1 A	Unknown	Very Likely	X 2	Kitchen	1	1	0	0 1.1
RPC 13	5/12/2020		1 A	Unknown	LIKEIY	Z 7	Kitchen			0	0
RPC 14	5/13/2020		1 A	Unknown		X 7	Kitchen	1	1	1,4	1.4 36
RPC 15	5/13/2020		1 A	Unknown	VELY LIKELY	_	Kitchen	Citchen 44		44	44 3.7
RPC 16	5/13/2020		A	Unknown	Unknown very Likely		Kitchen	Kitchen 6.4	6	6.4	6.4 2.9
RPC 17	5/13/2020	0	1 A	OHAHOWH			Kitchen	Kitchen 23		23	23 1.8
RPd 1	6/9/2020	0	1 A	UNKIIOWII	LIKELY		Kitchen	Kitchen 3.4	3.4		3.4 33
RPd 2	6/10/2020	0	1 A	Unknown Likely	Likely		Kitchen	1	11	1	11 45
RPd 3	6/10/2020	0	1 A	UNKNOW			Kitchen		4.4		4.4 5.6
RPd 4	6/10/2020	0	A	Unknown			Kitchen	1	1.4	1	1.4 3.9
RPd 5	6/10/2020	0	1 A	Unknown			Kitchen	1	0	1	0 2.2
RPd 6	6/10/2020	0	1 A	Unknown	Unknown Likely		Kitchen		17		17 28