

April 16, 2020

Diane Czarnecki Industrial Hygienist Facilities Management Division GSA Public Buildings Service – Heartland Region 2300 Main Street Kansas City, MO 64108

Re: Goodfellow Federal Center – Bldg. #105 Drinking Water Sampling Project No. 121244

Dear Ms. Czarnecki:

Thank you for the opportunity to provide the General Services Administration (GSA) with the above referenced environmental sampling activities. The following is our report.

INTRODUCTION

As requested, Burns & McDonnell conducted drinking water sampling and testing for the presence of lead and copper at Building #105 of the Goodfellow Federal Center located at 4300 Goodfellow Boulevard in St. Louis, Missouri. Sampling was completed in response to the ongoing environmental condition assessment at the Goodfellow Federal Center which is documented at the Goodfellow Federal Center Reading Room located at https://www.gsa.gov/portal/content/212361.

Drinking water sampling was conducted to determine the current levels of lead and copper in representative sources throughout the complex. Drinking water sampling at Bldg. #105 was conducted on March 13 and March 18, 2020 by Emily Ahlemeyer of Burns & McDonnell, Jeff Smith of OCCU-TEC, and Kevin Heriford of OCCU-TEC.

METHODOLOGY

The sampling methodology used during this investigation was developed in general accordance with the United States Environmental Protection Agency's (EPA) "Quick Guide to Drinking Water Sample Collection – Second Edition" developed by the EPA Region 8 in September 2016.

Samples were collected as first draw samples in accordance with the Lead and Copper Rule (40 CFR Part 141 Subpart I). First draw samples represent 'worst case' conditions with water that has been stationary within the plumbing systems for a minimum of six hours. The samples were collected in individually labeled 1000 milliliter (mL) plastic bottles capped with Teflon septa lined screw caps. The bottles were filled to the shoulder with water from the sample source. The samples were then placed in a cooler for safe transport. Each sample was acidified at the laboratory as needed.



Diane Czarnecki Facilities Management Division April 16, 2020 Page 2

Drinking water sampling for the presence of lead and copper was conducted at 39 distinct locations within Building #105. A total of 44 samples were obtained including duplicate samples. After each drinking water sample was collected, Burns & McDonnell filled a separate sample cup with approximately 2 inches of water. Burns & McDonnell placed a VANTAKOOL pH Meter and a Taylor 9842 temperature probe into the sample cup. After readings stabilized, Burns & McDonnell recorded the readings for pH (the acidity or basicity of an aqueous solution) and the temperature (in degrees Celsius) on site specific sample logs.

Drinking water samples were submitted to Eurofins-Eaton Analytical in South Bend, IN for analyses of lead and copper. Eurofins-Eaton Analytical is certified by the State of Missouri Department of Natural Resources (MDNR) as an approved drinking water laboratory. Eurofins-Eaton Analytical's Missouri Certification number is 880.

The drinking water samples were collected using media supplied by Eurofins-Eaton Analytical. Lead and Copper samples were collected and analyzed in accordance with EPA Method 200.8.

RESULTS AND DISCUSSION

The results for the subject testing are summarized in the table below.

Analysis	Lowest Concentration ^(a)	Highest Concentration ^(a)	Action Level ^(b)
Lead	<0.001 mg/L	$0.007~\mathrm{mg/L}$	0.015 mg/L
Copper	0.017 mg/L	0.110 mg/L	1.3 mg/L

Notes:

- (a) Samples with a "<" sign indicate that the results were below the reportable limit.
- (b) As per EPA Lead and Copper Rule (40 CFR Part 141 Subpart I).

A summary table of all sampling results by location is included in Appendix A. The complete laboratory report for the drinking water sampling from Eurofins-Eaton Analytical is attached in Appendix B.

Lead

All samples were below the Action Level (AL) for lead.

Copper

All samples were below the Action Level (AL) for copper.

pН

Normal pH levels for drinking water are between 6.0 to 8.5. Water with a pH < 6.5 is considered acidic, soft, and corrosive. Acidic water may contain metal ions, may cause premature damage to



Diane Czarnecki Facilities Management Division April 16, 2020 Page 3

metal piping, and increases the likelihood of leaching. Water with a pH > 8.5 is considered alkaline or basic and can indicate that the water is hard. Hard water does not pose a health risk but can cause aesthetic problems. These problems include an alkali taste, the formation of scale deposits, and difficulty in getting soaps and detergents to lather.

The recorded pH levels in Building #105 ranged from 8.65 to 9.41, indicating the drinking water is slightly alkaline.

LIMITATIONS

The scope of this assessment was limited in nature. Burns & McDonnell collected samples from a select number of drinking water sources in an effort to minimize cost while providing a general overview of the drinking water quality at the site. Sample locations do not encompass every drinking water source at the Site. Additionally, samples were only analyzed for a select number of potential contaminants likely to affect the drinking water quality at the site. Burns & McDonnell is not responsible for potential contaminants not identified in this report.

This report was prepared for the sole use of GSA. Reliance by any party other than GSA is expressly forbidden without Burns & McDonnell's written permission. Any parties relying on the report, with Burns & McDonnell's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

Burns & McDonnell appreciates the opportunity to work with the General Services Administration on this project. Please contact us if you have any questions regarding this report or if we may be of any additional service.

Sincerely,



Matt Shanahan, CHMM Project Manager

Attachments:

Appendix A - Results Summary by Location Appendix B - Water Sample Laboratory Report



Appendix A
Results Summary by Location

	Goodfellow Federal Center - Building 105													
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL		
105-PbW-01	1st floor break room @ B10	9.12	16.0	Sink	Copper		86	μg/L	1.0	1	Below	1300		
105-PbW-01	1st floor break room @ B10	9.12	16.0	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-02	1st floor right drinking fountain @ B6	8.97	16.5	R DF	Copper			μg/L	1.0		Below	1300		
105-PbW-02	1st floor right drinking fountain @ B6	8.97	16.5	R DF	Lead	<		μg/L	1.0		Below	15		
105-PbW-03	First floor nursing room sink @ H12	8.97	16.5	Sink	Copper		91	μg/L	1.0	1	Below	1300		
105-PbW-03	First floor nursing room sink @ H12	8.97	16.5	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-04	Duplicate of 105-PbW-03	9.27	21.7	Sink D	Copper		91	μg/L	1.0	1	Below	1300		
105-PbW-04	Duplicate of 105-PbW-03	9.27	21.7	Sink D	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-05	1st floor left drinking fountain @ B19	9.38	11.1	L DF	Copper		46	μg/L	1.0	1	Below	1300		
105-PbW-05	1st floor left drinking fountain @ B19	9.38	11.1	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-06	1st floor drinking fountain @ B13	9.09	14.2	DF	Copper		19	μg/L	1.0	1	Below	1300		
105-PbW-06	1st floor drinking fountain @ B13	9.09	14.2	DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-07	1st floor drinking fountain @ B34	9.17	21.0	DF	Copper		82	μg/L	1.0	1	Below	1300		
105-PbW-07	1st floor drinking fountain @ B34	9.17	21.0	DF	Lead		2.0	μg/L	1.0	1	Below	15		
105-PbW-08	Duplicate of 105-PbW-07	9.17	21.0	DF D	Copper		95	μg/L	1.0	1	Below	1300		
105-PbW-08	Duplicate of 105-PbW-07	9.17	21.0	DF D	Lead		2.1	μg/L	1.0	1	Below	15		
105-PbW-09	1st floor drinking fountain @ H52	9.35	20.4	R DF	Copper		25	μg/L	1.0	1	Below	1300		
105-PbW-09	1st floor drinking fountain @ H52	9.35	20.4	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-10	2nd floor drinking fountain @ G27	9.30	24.3	L DF	Copper		69	μg/L	1.0	1	Below	1300		
105-PbW-10	2nd floor drinking fountain @ G27	9.30	24.3	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-11	Duplicate of 105-PbW-10	9.30	24.3	L DF D	Copper		74	μg/L	1.0	1	Below	1300		
105-PbW-11	Duplicate of 105-PbW-10	9.30	24.3	L DF D	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-12	2nd floor drinking fountain @ G9	9.41	13.8	L DF	Copper		36	μg/L	1.0	1	Below	1300		
105-PbW-12	2nd floor drinking fountain @ G9	9.41	13.8	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-13	2nd floor break room @ B18	9.14	20.8	Sink	Copper		17	μg/L	1.0	1	Below	1300		
105-PbW-13	2nd floor break room @ B18	9.14	20.8	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-14	2nd floor drinking fountain @ B20	9.07	13.0	L DF	Copper		38	μg/L	1.0	1	Below	1300		
105-PbW-14	2nd floor drinking fountain @ B20	9.07	13.0	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		

Appendix A
Results Summary by Location

	Goodfellow Federal Center - Building 105													
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL		
105-PbW-15	Duplicate of 105-PbW-14	9.07	13.0	L DF D	Copper		38	μg/L	1.0	1	Below	1300		
105-PbW-15	Duplicate of 105-PbW-14	9.07	13.0	L DF D	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-16	2nd floor break room @ B30	8.99	22.4	Sink	Copper		34	μg/L	1.0	1	Below	1300		
105-PbW-16	2nd floor break room @ B30	8.99	22.4	Sink	Lead		1.1	μg/L	1.0	1	Below	15		
105-PbW-17	Duplicate of 105-PbW-16	8.99	22.4	Sink D	Copper		30	μg/L	1.0	1	Below	1300		
105-PbW-17	Duplicate of 105-PbW-16	8.99	22.4	Sink D	Lead		3.6	μg/L	1.0	1	Below	15		
105-PbW-18	2nd floor drinking fountain @ B30	8.98	12.9	L DF	Copper		60	μg/L	1.0	1	Below	1300		
105-PbW-18	2nd floor drinking fountain @ B30	8.98	12.9	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-19	2nd floor SW bottle filler	9.14	13.8	DF	Copper		41	μg/L	1.0	1	Below	1300		
105-PbW-19	2nd floor SW bottle filler	9.14	13.8	DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-20	2nd floor SW drinking fountain	9.09	13.8	L DF	Copper		28	μg/L	1.0	1	Below	1300		
105-PbW-20	2nd floor SW drinking fountain	9.09	13.8	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-21	2nd floor SW lab room 348, front sink	9.27	24.5	Sink	Copper		23	μg/L	1.0	1	Below	1300		
105-PbW-21	2nd floor SW lab room 348, front sink	9.27	24.5	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-22	2nd floor SW lab room 349, back sink	9.05	26.0	Sink	Copper		57	μg/L	1.0	1	Below	1300		
105-PbW-22	2nd floor SW lab room 349, back sink	9.05	26.0	Sink	Lead		3.0	μg/L	1.0	1	Below	15		
105-PbW-23	2nd floor SW lab room 360, NW corner sink	9.20	20.7	Sink	Copper		34	μg/L	1.0	1	Below	1300		
105-PbW-23	2nd floor SW lab room 360, NW corner sink	9.20	20.7	Sink	Lead		2.5	μg/L	1.0	1	Below	15		
105-PbW-24	2nd floor SW lab room 359, south sink	9.21	20.8	Sink	Copper		58	μg/L	1.0	1	Below	1300		
105-PbW-24	2nd floor SW lab room 359, south sink	9.21	20.8	Sink	Lead		2.1	μg/L	1.0	1	Below	15		
105-PbW-25	2nd floor lab room 358. north sink	9.12	23.7	Sink	Copper		47	μg/L	1.0	1	Below	1300		
105-PbW-25	2nd floor lab room 358. north sink	9.12	23.7	Sink	Lead		2.4	μg/L	1.0	1	Below	15		
105-PbW-26	2nd floor lab room 356, NW sink	9.20	23.3	Sink	Copper		69	μg/L	1.0	1	Below	1300		
105-PbW-26	2nd floor lab room 356, NW sink	9.20	23.3	Sink	Lead		6.6	μg/L	1.0	1	Below	15		
105-PbW-27	2nd floor lab room 337, SE sink	9.20	25.6	Sink	Copper		46	μg/L	1.0	1	Below	1300		
105-PbW-27	2nd floor lab room 337, SE sink	9.20	25.6	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		

Appendix A
Results Summary by Location

	Goodfellow Federal Center - Building 105													
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL		
105-PbW-28	2nd floor lab room 339, north sink	9.11	25.1	Sink	Copper		81	μg/L	1.0	1	Below	1300		
105-PbW-28	2nd floor lab room 339, north sink	9.11	25.1	Sink	Lead		1.9	μg/L	1.0	1	Below	15		
105-PbW-29	2nd floor lab room 340, north sink	8.91	23.9	Sink	Copper		58	μg/L	1.0	1	Below	1300		
105-PbW-29	2nd floor lab room 340, north sink	8.91	23.9	Sink	Lead		6.6	μg/L	1.0	1	Below	15		
105-PbW-30	2nd floor lab room 341, center island, north side	9.04	22.8	Sink	Copper		60	μg/L	1.0	1	Below	1300		
105-PbW-30	2nd floor lab room 341, center island, north side	9.04	22.8	Sink	Lead		3.0	μg/L	1.0	1	Below	15		
105-PbW-31	2nd floor lab room 345, center island, south side	9.23	23.0	Sink	Copper		67	μg/L	1.0	1	Below	1300		
105-PbW-31	2nd floor lab room 345, center island, south side	9.23	23.0	Sink	Lead		1.5	μg/L	1.0	1	Below	15		
105-PbW-32	2nd floor break room, east side, left sink	9.08	25.5	Sink	Copper		40	μg/L	1.0	1	Below	1300		
105-PbW-32	2nd floor break room, east side, left sink	9.08	25.5	Sink	Lead		2.7	μg/L	1.0	1	Below	15		
105-PbW-33	2nd floor break room 317*	9.22	25.2	Sink	Copper		32	μg/L	1.0	1	Below	1300		
105-PbW-33	2nd floor break room 317*	9.22	25.2	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-34	2nd floor lab room 314, SE sink	9.24	24.3	Sink	Copper		46	μg/L	1.0	1	Below	1300		
105-PbW-34	2nd floor lab room 314, SE sink	9.24	24.3	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-35	1st floor, lab processing, A48 SE sink	9.15	19.0	Sink	Copper		73	μg/L	1.0	1	Below	1300		
105-PbW-35	1st floor, lab processing, A48 SE sink	9.15	19.0	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-36	1st floor, lab processing, A47	9.16	19.3	Sink	Copper		44	μg/L	1.0	1	Below	1300		
105-PbW-36	1st floor, lab processing, A47	9.16	19.3	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-37	1st floor, lab processing, A46, right side	9.15	20.4	Sink	Copper		45	μg/L	1.0	1	Below	1300		
105-PbW-37	1st floor, lab processing, A46, right side	9.15	20.4	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-38	1st floor, lab processing, A46, left side	9.13	20.8	Sink	Copper		50	μg/L	1.0	1	Below	1300		
105-PbW-38	1st floor, lab processing, A46, left side	9.13	20.8	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-39	2nd floor lab room 329, SW sink	8.87	22.0	Sink	Copper		50	μg/L	1.0	1	Below	1300		
105-PbW-39	2nd floor lab room 329, SW sink	8.87	22.0	Sink	Lead		3.3	μg/L	1.0	1	Below	15		

Appendix A Results Summary by Location

	Goodfellow Federal Center - Building 105													
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL		
105-PbW-40	2nd floor lab room 328, center island, left side faucet	8.96	23.3	Sink	Copper		40	μg/L	1.0	1	Below	1300		
105-PbW-40	2nd floor lab room 328, center island, left side faucet	8.96	23.3	Sink	Lead		1.7	μg/L	1.0	1	Below	15		
105-PbW-41	2nd floor lab room 315, south sink (loud rattling)	9.03	24.6	Sink	Copper		58	μg/L	1.0	1	Below	1300		
105-PbW-41	2nd floor lab room 315, south sink (loud rattling)	9.03	24.6	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-42	2nd floor lab room 315, center column sink	8.93	22.8	Sink	Copper		65	μg/L	1.0	1	Below	1300		
105-PbW-42	2nd floor lab room 315, center column sink	8.93	22.8	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		
105-PbW-43	2nd floor lab room 311, NE sink	8.65	22.5	Sink	Copper		110	μg/L	1.0	1	Below	1300		
105-PbW-43	2nd floor lab room 311, NE sink	8.65	22.5	Sink	Lead		1.8	μg/L	1.0	1	Below	15		
105-PbW-44	2nd floor lab room 306, north island sink	8.93	23.7	Sink	Copper		51	μg/L	1.0	1	Below	1300		
105-PbW-44	2nd floor lab room 306, north island sink	8.93	23.7	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15		

Notes:

*Not first draw

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

MRL - Method Reporting Limit

Dil - Dilution

AL - Action Level

μg/L - micrograms per liter

Sample was broken during transport.





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

North Kansas City, MO 64117

Laboratory Report

Client: OCCU-TEC Inc. Report: 481128

Attn: Kevin Heriford Priority: Standard Written

2604 NE Industrial Drive Status: Final

Suite 230 PWS ID: Not Supplied

	Samp	le Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4587720	105-PbW-01	200.8	03/12/20 05:40	Client	03/16/20 08:35
4587722	105-PbW-03	200.8	03/12/20 05:55	Client	03/16/20 08:35
4587723	105-PbW-04	200.8	03/12/20 05:55	Client	03/16/20 08:35
4587724	105-PbW-05	200.8	03/12/20 06:00	Client	03/16/20 08:35
4587725	105-PbW-06	200.8	03/12/20 06:05	Client	03/16/20 08:35
4587726	105-PbW-07	200.8	03/12/20 06:09	Client	03/16/20 08:35
4587727	105-PbW-08	200.8	03/12/20 06:09	Client	03/16/20 08:35
4587728	105-PbW-09	200.8	03/12/20 06:25	Client	03/16/20 08:35
4587729	105-PbW-10	200.8	03/12/20 06:32	Client	03/16/20 08:35
4587730	105-PbW-11	200.8	03/12/20 06:32	Client	03/16/20 08:35
4587731	105-PbW-12	200.8	03/12/20 06:37	Client	03/16/20 08:35
4587732	105-PbW-13	200.8	03/13/20 05:15	Client	03/16/20 08:35
4587733	105-PbW-14	200.8	03/13/20 05:17	Client	03/16/20 08:35
4587734	105-PbW-15	200.8	03/13/20 05:17	Client	03/16/20 08:35
4587735	105-PbW-16	200.8	03/13/20 05:25	Client	03/16/20 08:35
4587736	105-PbW-17	200.8	03/13/20 05:25	Client	03/16/20 08:35
4587737	105-PbW-18	200.8	03/13/20 05:30	Client	03/16/20 08:35

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 Kelly Blackburn at (574) 233-4777.

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

(b) (6) ASM 03/20/2020

Authorized Signature Title Date

Client Name: OCCU-TEC Inc.

Report #: 481128

Sampling Point: 105-PbW-01 PWS ID: Not Supplied

Lead and Copper													
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	86	ug/L		03/18/20 17:14	4587720				
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:14	4587720				

Sampling Point: 105-PbW-03 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	91	ug/L		03/18/20 17:21	4587722
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:21	4587722

Sampling Point: 105-PbW-04 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	91	ug/L		03/18/20 17:23	4587723
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:23	4587723

Sampling Point: 105-PbW-05 PWS ID: Not Supplied

	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	46	ug/L		03/18/20 17:26	4587724					
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:26	4587724					

Sampling Point: 105-PbW-06 PWS ID: Not Supplied

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	19	ug/L		03/18/20 18:15	4587725
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 18:15	4587725

Sampling Point: 105-PbW-07 PWS ID: Not Supplied

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	82	ug/L		03/18/20 17:30	4587726		
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		03/18/20 17:30	4587726		

Sampling Point: 105-PbW-08 PWS ID: Not Supplied

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	95	ug/L		03/18/20 17:33	4587727			
7439-92-1	Lead	200.8	15 !	1.0	2.1	ug/L		03/18/20 17:33	4587727			

Sampling Point: 105-PbW-09 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	25	ug/L		03/18/20 17:35	4587728		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:35	4587728		

Sampling Point: 105-PbW-10 PWS ID: Not Supplied

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	69	ug/L		03/18/20 17:42	4587729			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:42	4587729			

Sampling Point: 105-PbW-11 PWS ID: Not Supplied

	Lead and Copper											
Analyte ID #												
7440-50-8	Copper	200.8	1300 !	1.0	74	ug/L		03/18/20 17:45	4587730			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:45	4587730			

Sampling Point: 105-PbW-12 PWS ID: Not Supplied

Lead and Copper											
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	36	ug/L		03/18/20 17:47	4587731		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:47	4587731		

Sampling Point: 105-PbW-13 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	17	ug/L		03/18/20 17:54	4587732		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 03/18/20 17:54 45											

Sampling Point: 105-PbW-14 PWS ID: Not Supplied

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	38	ug/L		03/18/20 17:56	4587733			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:56	4587733			

Sampling Point: 105-PbW-15 PWS ID: Not Supplied

	Lead and Copper											
								EEA ID#				
7440-50-8	Copper	200.8	1300 !	1.0	38	ug/L		03/18/20 17:59	4587734			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 17:59	4587734			

Sampling Point: 105-PbW-16 PWS ID: Not Supplied

	Lead and Copper												
Analyte ID #													
7440-50-8	Copper	200.8	1300 !	1.0	34	ug/L		03/18/20 18:01	4587735				
7439-92-1	Lead	200.8	15 !	1.0	1.1	ug/L		03/18/20 18:01	4587735				

Sampling Point: 105-PbW-17 PWS ID: Not Supplied

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	30	ug/L		03/18/20 18:04	4587736		
7439-92-1	Lead	200.8	15 !	1.0	3.6	ug/L		03/18/20 18:04	4587736		

Sampling Point: 105-PbW-18 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	60	ug/L		03/18/20 18:06	4587737		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/18/20 18:06	4587737		

[†] 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.

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 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777

Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client: OCCU-TEC Inc. Report: 481128

Priority: Standard Written Attn: Kevin Heriford

Status: Final 2604 NE Industrial Drive

PWS ID: Not Supplied Suite 230

North Kansas City, MO 64117

	Sampl	e Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4587721	105-PbW-02	200.8	03/12/20 05:48	Client	03/16/20 08:35

Report Summary

The sample container was broken en route to EEA. The client was notified of the situation, and recollection of the sample was requested.

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

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(b) (6)

ASM

03/20/2020

Page 1 of 1

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Eaton Analytical

128

18

Batch # Order#

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

	i		Ξ	IMI	T QNUO	ЧАИЯ	UT	DWSW	NS.	DW SW	DW SW	NSM	DW SW	NS N	DW SIN	DWSW	DW SW	DW SW	DW SW	DIM SW	DIN SIN
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Page (285	#Od	nncrei			CHLORINATED	YES NO	>		/	>	/	>	>	>	>	/	/	<u> </u>	>	>
		PROJECT NAME	GFC			SAMPLE REMARKS															
an an	2	STATE (sample origin)	MO	SOURCE WATER	Municipal	ME		CODOL	1.1												
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				Yes		SAMPLING SITE		10-1	1-02*	1-03	ho - 1	1-05		1-07	- 08	1-09	01-10	11-1	1-12	1-13	7-14
		SAMPLER (Signature)			COMPLIANCE	SA		- Mag - 201	105 - PWW -	105 - PbW -	105 - PbiM -	105 - PbW -	105 - PbM -	105 - PbW-	105 - PbM -	105 - PbW-	105 - PbW -	105 - PbM -	105 - PbM -	105 - PbW -	105 - PbW-
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www.EurofinsUS.com/Eaton	Shaded area for EEA use only	REPORT TO:M Shanahan (a born Smcd. conn SAMPLER (Signature)	Lansac City MO 104114	BILL TO:	same	LAB Number	05-	0877824	731	733	733	134	725	726	127	7	139	1	•		>
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RELINOUISHED BY:(Signature)	DATE TIME	TIME RECEIVED BY:(Signature)	DATE TIME	LAB RESERVE	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
b) 6)	3/13/20 1600	IN COUNTY OFFS ON C	OC DAC	LAB COMMENTS	ceine off during garsit,
RELINQUISHED BY:(Signature)	DATE TIME	TIME RECEIVED BY:(Signature)	DATE TIME	* Sam	THE POST of Me "3/11/2020 RESIDENT AND SUNCE IS INVERED. 18
RELINQUISHED BY:(Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (9)	PATE TIME	CONDITIONS UPON RECEIPT (check one):	ient ,
MATRIX CODES:	TURN-AROUND TIM	TURN-AROUND TIME (TAT) - SURCHARGES			
DW-DRINKING WATER	SW = Standard Written: (15 working days)	working days) 0%	IV* = Immediate Verbal: (3 working days)	orking days) 100%	
TO GW-GROUND WATER	RV* = Rush Verbal: (5 working days)	ng days) 50%	IW* =Immediate Written: (3 working days)	vorking days) 125%	Samples received unannounced with less
B EW-EXPOSURE WATER	RW* = Rush Written: (5 working days)	king days) 75%	SP* = Weekend, Holiday	CALL	than 48 hours holding time remaining may
e SW-SURFACE WATER PW-POOL WATER			STAT* = Less than 48 hours	CALL	or subject to additional trianges.
O WW-WASTE WATER	* Please call, expedite	* Please call, expedited service not available for all testing			06-LO-F0435 Issue 7.0 Effective Date: 2018-10-11

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 Company EEA.



Eaton Analytical

Order # 35499(3) War Batch # 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

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REPORT TO: MShana	REPORT TO: MShanahan (2) burnsmrd. COM SAMPLER (Signature)			# OI SMA	STATE (sample origin)	PROJECT NAME	#Od		r	Ī
9400 Ward Parkway Kansas City, MO 104114	41149 07 12may	(b) (6)		4/2	MO					1
BILL TO:) ves	No	POPULATION SERVED	SOURCE WATER) TI	121244			LIME
Sund		COMPLIANCE	X	× 2	Municipal)		ЭИІАТИ	CODE	r anuo
LAB Number	COLL	SAMPLING SITE		TEST NAME	AME	SAMPLE REMARKS	CHLORINATED		ХІЯТ	RANF
	DATE TIME AM PM						YES NO) # T	AN	IUT
14587734	3/13/20 0517 /	105-PbW-15		Lead and	nd Cooper		_	-		SW
2 (135	3/13/20 0525 /	105-PBW-16			1 1		>	-		SW
3 136	3/13/20 0625 /	105 - PbW - 17					>	_		Nis
4 737	3/13/20 0530 1	105 - PbW-18					>			SW
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RELINQUISHED BY: (Signature)	DATE (F)	TIME RECEIVED BY:(Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	SED PORTIONS OF NON-AC	UEOUS SAMPLES	TO CLIENT		П
	3/13/20 (1600)			LAB COMMENTS						Π
RELINQUISHED BY:(Signature)	DATE TIME	RECEIVED BY:(Signature)	DATE	TIME						7

KELINQUISHED BY:(Signature)	DATE	TIME RECEIVED BY:(Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
b) 6)	3/13/20	1600		LABC	LAB COMMENTS
	1.1.	AM (PM)		AM PM	
&ELINQUISHED BY:(Signature)	DATE	TIME RECEIVED BY:(Signature)	DATE	TIME	
		AM PM		AM PM	
RELINQUISHED BY:(Signature)	DATE	TIME RECEIVED FOR LABORATORY BY:	DATE		
		(b)	3/11	- 1	CONDITIONS UPON RECEIPT (check one):
		5)	Cranton!	100	loed: Wet/Blue Ambient 9C Unon Receipt N/A
		AM PM	mm/	AM PM	- discount of the second of th
MATRIX CODES:	TURN-AR	TURN-AROUND TIME (TAT) - SURCHARGES			
DW-DRINKING WATER	SW = Standar	SW = Standard Written: (15 working days) 0%	IV* = Immediate	IV* = Immediate Verbal: (3 working days)	(5)
KW-KEAGENT WATER GW-GROUND WATER	RV* = Rush Ve	RV* = Rush Verbal: (5 working days) 50%	IW* =Immediate	IW* =Immediate Written: (3 working days)	ys) 125% Samples received unannounced with less
EW-EXPOSURE WATER SW-SURFACE WATER	RW* = Rush W	RW* = Rush Written: (5 working days) 75%	SP* = Weekend, Holiday	, Holiday	CALL than 48 hours holding time remaining may
			STAT* = Less than 48 hours	han 48 hours	CALL CALL
WW-WASTE WATER	* Please ca	* Please call, expedited service not available for all testing			

Bample 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 3EA.



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: OCCU-TEC Inc. Report: 481744

Attn: Kevin Heriford Priority: Standard Written

2604 NE Industrial Drive Status: Final

Suite 230 PWS ID: Not Supplied North Kansas City, MO 64117

		Sample Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4593439	105-PbW-19	200.8	03/18/20 05:06	Client	03/20/20 09:00
4593440	105-PbW-20	200.8	03/18/20 05:10	Client	03/20/20 09:00
4593441	105-PbW-21	200.8	03/18/20 05:15	Client	03/20/20 09:00
4593442	105-PbW-22	200.8	03/18/20 05:19	Client	03/20/20 09:00
4593443	105-PbW-23	200.8	03/18/20 05:24	Client	03/20/20 09:00
4593444	105-PbW-24	200.8	03/18/20 05:27	Client	03/20/20 09:00
4593445	105-PbW-25	200.8	03/18/20 05:30	Client	03/20/20 09:00
4593446	105-PbW-26	200.8	03/18/20 05:34	Client	03/20/20 09:00
4593447	105-PbW-27	200.8	03/18/20 05:39	Client	03/20/20 09:00
4593448	105-PbW-28	200.8	03/18/20 05:42	Client	03/20/20 09:0
4593449	105-PbW-29	200.8	03/18/20 05:44	Client	03/20/20 09:0
4593450	105-PbW-30	200.8	03/18/20 05:46	Client	03/20/20 09:0
4593451	105-PbW-31	200.8	03/18/20 05:49	Client	03/20/20 09:0
4593452	105-PbW-32	200.8	03/18/20 05:52	Client	03/20/20 09:0
4593453	105-PbW-33	200.8	03/18/20 05:56	Client	03/20/20 09:0
4593454	105-PbW-34	200.8	03/18/20 06:00	Client	03/20/20 09:00
4593455	105-PbW-35	200.8	03/18/20 06:06	Client	03/20/20 09:00
4593456	105-PbW-36	200.8	03/18/20 06:12	Client	03/20/20 09:00
4593457	105-PbW-37	200.8	03/18/20 06:14	Client	03/20/20 09:0
4593458	105-PbW-38	200.8	03/18/20 06:17	Client	03/20/20 09:0
4593459	105-PbW-39	200.8	03/18/20 06:21	Client	03/20/20 09:0
4593460	105-PbW-40	200.8	03/18/20 06:23	Client	03/20/20 09:0
4593461	105-PbW-41	200.8	03/18/20 06:29	Client	03/20/20 09:0
4593462	105-PbW-42	200.8	03/18/20 06:31	Client	03/20/20 09:0
4593463	105-PbW-43	200.8	03/18/20 06:35	Client	03/20/20 09:0
4593464	105-PbW-44	200.8	03/18/20 06:38	Client	03/20/20 09:0

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 Kelly Blackburn at (574) 233-4777.

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

(b) (6)

Authorized Signature Title

Date

Client Name: OCCU-TEC Inc. Report #: 481744

ASM

03/30/2020

Sampling Point: 105-PbW-19 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	41	ug/L		03/26/20 15:51	4593439
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 15:51	4593439

Sampling Point: 105-PbW-20 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	28	ug/L		03/26/20 15:54	4593440
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 15:54	4593440

Sampling Point: 105-PbW-21 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	23	ug/L		03/26/20 15:56	4593441
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 15:56	4593441

Sampling Point: 105-PbW-22 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	57	ug/L		03/26/20 15:59	4593442
7439-92-1	Lead	200.8	15 !	1.0	3.0	ug/L		03/26/20 15:59	4593442

Sampling Point: 105-PbW-23 PWS ID: Not Supplied

	Lead and Copper											
Analyte Analyte Method Reg Limit Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	34	ug/L		03/26/20 16:01	4593443			
7439-92-1	39-92-1 Lead 200.8 15! 1.0 2.5 ug/L 03/26/20 16:01 4593443											

Sampling Point: 105-PbW-24 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	58	ug/L		03/26/20 16:03	4593444		
7439-92-1 Lead 200.8 15! 1.0 2.1 ug/L 03/26/20 16:03 45											

Sampling Point: 105-PbW-25 PWS ID: Not Supplied

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	47	ug/L		03/26/20 16:15	4593445		
7439-92-1											

Sampling Point: 105-PbW-26 PWS ID: Not Supplied

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed Date											
7440-50-8	Copper	200.8	1300 !	1.0	69	ug/L		03/26/20 16:17	4593446		
7439-92-1 Lead 200.8 15! 1.0 6.6 ug/L 03/26/20 16:17 459											

Sampling Point: 105-PbW-27 PWS ID: Not Supplied

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit												
7440-50-8	Copper	200.8	1300 !	1.0	46	ug/L		03/26/20 16:25	4593447			
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 03/26/20 16:25 45												

Sampling Point: 105-PbW-28 PWS ID: Not Supplied

	Lead and Copper											
Analyte Analyte Analyte Method Reg Limit Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	81	ug/L		03/26/20 16:27	4593448			
7439-92-1	39-92-1 Lead 200.8 15! 1.0 1.9 ug/L 03/26/20 16:27 4593448											

Sampling Point: 105-PbW-29 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	58	ug/L		03/26/20 16:29	4593449		
7439-92-1 Lead 200.8 15! 1.0 6.6 ug/L 03/26/20 16:29 459											

Sampling Point: 105-PbW-30 PWS ID: Not Supplied

Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed E Limit											
7440-50-8	Copper	200.8	1300 !	1.0	60	ug/L		03/26/20 16:32	4593450		
7439-92-1											

Sampling Point: 105-PbW-31 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	67	ug/L		03/26/20 16:34	4593451		
7439-92-1	7439-92-1 Lead 200.8 15! 1.0 1.5 ug/L 03/26/20 16:34 45										

Sampling Point: 105-PbW-32 PWS ID: Not Supplied

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed In												
7440-50-8	Copper	200.8	1300 !	1.0	40	ug/L		03/26/20 16:36	4593452			
7439-92-1 Lead 200.8 15! 1.0 2.7 ug/L 03/26/20 16:36 45												

Sampling Point: 105-PbW-33 PWS ID: Not Supplied

	Lead and Copper											
Analyte Analyte Method Reg MRL† Result Units Preparation Analyzed EEA ID #												
7440-50-8	Copper	200.8	1300 !	1.0	32	ug/L		03/26/20 16:39	4593453			
7439-92-1	39-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 03/26/20 16:39 4593453											

Sampling Point: 105-PbW-34 PWS ID: Not Supplied

Lead and Copper											
									EEA ID#		
7440-50-8	Copper	200.8	1300 !	1.0	46	ug/L		03/26/20 16:41	4593454		
7439-92-1 Lead 200.8 15! 1.0 < 1.0 ug/L 03/26/20 16:41 459											

Sampling Point: 105-PbW-35 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	73	ug/L		03/26/20 16:48	4593455
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 16:48	4593455

Sampling Point: 105-PbW-36 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	44	ug/L		03/26/20 16:51	4593456
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 16:51	4593456

Sampling Point: 105-PbW-37 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	45	ug/L		03/26/20 16:58	4593457
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 16:58	4593457

Sampling Point: 105-PbW-38 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	50	ug/L		03/26/20 17:00	4593458
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 17:00	4593458

Sampling Point: 105-PbW-39 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	50	ug/L		03/26/20 17:02	4593459
7439-92-1	Lead	200.8	15 !	1.0	3.3	ug/L		03/26/20 17:02	4593459

Sampling Point: 105-PbW-40 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	40	ug/L		03/26/20 17:05	4593460
7439-92-1	Lead	200.8	15 !	1.0	1.7	ug/L		03/26/20 17:05	4593460

Sampling Point: 105-PbW-41 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	58	ug/L		03/26/20 17:07	4593461
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 17:07	4593461

Sampling Point: 105-PbW-42 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	65	ug/L		03/26/20 17:10	4593462
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 17:10	4593462

Sampling Point: 105-PbW-43 PWS ID: Not Supplied

			Le	ad and	Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	110	ug/L	03/26/20 11:10	03/27/20 11:52	4593463
7439-92-1	Lead	200.8	15 !	1.0	1.8	ug/L	03/26/20 11:10	03/27/20 11:52	4593463

Sampling Point: 105-PbW-44 PWS ID: Not Supplied

			Le	ad and (Copper				
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID#
7440-50-8	Copper	200.8	1300 !	1.0	51	ug/L		03/26/20 17:12	4593464
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		03/26/20 17:12	4593464

[†] 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.

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

hhL18h

Batch #

SW 30 N MATRIX CODE of # OF CONTAINERS 121244 CHLORINATED 9 #Od Page YES SAMPLE REMARKS PROJECT NAME STATE (sample origin) SOURCE WATER Municipal ON Lead and Copper CHAIN OF CUSTODY RECORD TEST NAME POPULATION SERVED × 2 X N # OI SMA 2 (b) (6) SAMPLING SITE Yes 105 - PbW - 22 105-PbW-19 105 - PbW - 20 105 - PbW - 31 105 - PbW - 2 05 - PbW - 23 105 - PbW-24 105 - PbW - 26 105- PbW-25 105 - PbW - 27 105 - PbW-30 105 - PbW - 28 105 - PbW - 29 SAMPLER (Signature) COMPLIANCE AM PM REPORT TO: MShanahan @burnsmcd.com COLLECTION 0530 2650 0527 0539 2450 6490 9450 TIME 0150 0515 0534 3/18/20 0506 0519 0524 P420 Shaded area for EEA use only Konsas City, MO 64114 DATE 9400 Ward Parkway 65h www.EurofinsUS.com/Eaton 054 944 845 チも 243 たた たけ 4SI でたち MAKS 24 山 6243924 LAB Number same BILL TO:

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TURNAROUND TIME

RELINQUISHED BY:(Signature)	DATE TIME RECEIVED BY:(Signature)	DATE	TIME			
(b) (6)			1	LAB RESERVES THE RIGHT TO RETURN UND	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	
o) 6)	2/19/20/1400		LAB COMMENTS	IENTS		Γ
	AM (PW)		AM PM			-
RELINQUISHER BY:(Signature)	DATE TIME RECEIVED BY:(Signature)	DATE	TIME			
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RELINQUISHED BY:(Signature)	DATE TIME RECEIVED FOR LABORATORY BY:	DATE	_			T
	(b) (6)	1	CONDITION CONDITION	CONDITIONS UPON RECEIPT (check one):		
Pa		200	0000	Iced: Wet/Blue Ambient	°C Upon Receipt	
	AM PM	2	AM PM		1	
MATRIX CODES:	TURN-AROUND TIME (TAT) - SURCHARGES					T
	SW = Standard Written: (15 working days) 0%	IV* = Immediate \	IV* = Immediate Verbal: (3 working days)	100%		
	RV* = Rush Verbal: (5 working days) 50%	IW* = Immediate \	IW* =Immediate Written: (3 working days)	125%	Complete recognition transmission self-	
EW-EXPOSURE WATER SW-SURFACE WATER	RW* = Rush Written: (5 working days) 75%	SP* = Weekend, Holiday	Holiday	CALL	than 48 hours holding time remaining may	
PW-POOL WATER		STAT* = Less than 48 hours	in 48 hours	CALL	be subject to additional charges.	
WW-WASTE WATER	* Please call, expedited service not available for all testing					

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 EEA.



Eaton Analytical

Order # 394997 Batch #

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

SW TURNAROUND TIME MATRIX CODE 2 of # OF CONTAINERS 121244 CHLORINATED 9 2 #0d Page_ YES SAMPLE REMARKS PROJECT NAME 0 FC STATE (sample origin) SOURCE WATER Municipal and Capper O N CHAIN OF CUSTODY RECORD TEST NAME POPULATION SERVED V Z PWS ID# Lead 2 2 X (b) (6) SAMPLING SITE 64 - M94 - 43 hh - Mad -105 - PbW-42 105 - PbW-39 05 - PbW - 36 105 - PbW - 37 105 - PbW - 38 105 - PbW-40 105 - PbW - 35 105 - PbW - 41 105 - PbW-34 105-PbW-33 REPORT TO: MShanahan @ burnsmcd. Com SAMPLER (Signature) COMPLIANCE MONITORING 501 AM PM COLLECTION 0550 0000 TIME 0000 0629 2190 0635 0638 7190 0623 1190 0631 062 Shaded area for EEA use only Kansas City, MO 64114 3/18/20 DATE 462 www.EurofinsUS.com/Eaton コゆろ ONH カのた 456 459 457 TEST STATES HSH 4593453 LAB Number Swm & 10 2 6 12 80 7

RELINQUISHED BY:(Signature)	DATE TIN	TIME RECEIVED BY:(Signature)	DATE	TIME	South May the Cot thought the Salvanon de la	
(k (e					LAB RESERVES THE RIGHT TO RELUKN UNUSE	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT
o) (5)	2/10/20 160	9		LAB COMMENTS	MENTS	
	214 B AM PPM	(Md		AM PM		
CELINGUISHED BY: (Signature)	DAŤE TIN	TIME RECEIVED BY:(Signature)	DATE	TIME		
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RELINQUISHED BY:(Signature)	DATE TIN	TIME RECEIVED FOR LABORATORY BY:	DATE			
		(b)	-	CONDITIO	CONDITIONS UPON RECEIPT (check ope):	
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ag	AM PM	PM	151	AM PM	1	Ī
e MATRIX CODES:	TURN-AROUND	TURN-AROUND TIME (TAT) - SURCHARGES				
O DW-DRINKING WATER	SW = Standard Written: (15 working days)	(15 working days) 0%	IV* = Immediate	IV* = Immediate Verbal: (3 working days)	100%	
	RV* = Rush Verbal: (5 working days)	orking days) 50%	IW* =Immediate \	IW* =Immediate Written: (3 working days)	125%	Samples received unannounced with less
EW-EXPOSURE WATER SW-SURFACE WATER	RW* = Rush Written: (5 working days)	working days) 75%	SP* = Weekend, Holiday	Holiday	CALL	than 48 hours holding time remaining may
PW-POOL WATER	<i>Contraductor</i>		STAT* = Less than 48 hours	an 48 hours	CALL	be subject to additional charges.
ww-wasie waiek	* Please call, expec	* Please call, expedited service not available for all testing				

De-LO-1043s issue 7.0 Effective Date: 2018-10-11 EA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agreed to in writing by EEA. 06-LO-F0435 Issue 7.0 Effective Date: 2018-10-11