

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. #103 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 #103 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. #103 was conducted on March 30, 2020 by Emily Ahlemeyer of Burns & McDonnell.

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 thirteen (13) distinct locations within Building #103. A total of fifteen (15) 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

Analysis	Lowest Concentration ^(a)	Highest Concentration ^(a)	Action Level ^(b)
Lead	<0.001 mg/L	0.0033 mg/L	0.015 mg/L
Copper	0.042 mg/L	1.700 mg/L	1.3 mg/L

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

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

One sample exceeded the AL for copper. Sample 103-PbW-10 resulted in a copper concentration of 1.7 milligrams per liter.

GSA personnel were notified of the elevated sample results directly upon notification from the lab and the water sources were immediately taken out of service.



Diane Czarnecki Facilities Management Division April 16, 2020 Page 3

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 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.

Recorded pH levels in Building #103 ranged from 8.08 to 9.13 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,

(b) (6)

Matt Shanahan, CHMM Project Manager

Attachments: Appendix A - Res

Appendix A - Results Summary by Location Appendix B - Water Sample Laboratory Report **APPENDIX A – RESULTS SUMMARY BY LOCATION**

Appendix A Results Summary by Location

	Goodfellow Federal Center - Building 103												
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL	
103-PbW-01	2nd floor @ H6	9.13	15.3	R DF	Copper		210	μg/L	1.0	1	Below	1300	
103-PbW-01	2nd floor @ H6	9.13	15.3	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-02	2nd floor @ H6	9.12	17.2	L DF	Copper		620	μg/L	1.0	1	Below	1300	
103-PbW-02	2nd floor @ H6	9.12	17.2	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-03	2nd floor @ B14	9.08	9.9	R DF	Copper		1100	μg/L	1.0	1	Below	1300	
103-PbW-03	2nd floor @ B14	9.08	9.9	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-04	2nd floor @ B14	9.02	12.3	L DF	Copper		1200	μg/L	1.0	1	Below	1300	
103-PbW-04	2nd floor @ B14	9.02	12.3	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-05	2nd floor @ B34	9.06	20.2	R DF	Copper		57	μg/L	1.0	1	Below	1300	
103-PbW-05	2nd floor @ B34	9.06	20.2	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-06	2nd floor @ B34	9.00	20.3	L DF	Copper		51	μg/L	1.0	1	Below	1300	
103-PbW-06	2nd floor @ B34	9.00	20.3	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-07	2nd floor break room @ G6	8.63	22.5	Sink	Copper		42	μg/L	1.0	1	Below	1300	
103-PbW-07	2nd floor break room @ G6	8.63	22.5	Sink	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-08	Duplicate of 103-PbW-07	8.63	22.5	Sink D	Copper		42	μg/L	1.0	1	Below	1300	
103-PbW-08	Duplicate of 103-PbW-07	8.63	22.5	Sink D	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-09	1st floor @ B22	8.63	11.8	R DF	Copper		640	μg/L	1.0	1	Below	1300	
103-PbW-09	1st floor @ B22	8.63	11.8	R DF	Lead		2.0	μg/L	1.0	1	Below	15	
103-PbW-10	1st floor @ B22	8.58	11.8	L DF	Copper		1700	μg/L	1.0	1	Above	1300	
103-PbW-10	1st floor @ B22	8.58	11.8	L DF	Lead		3.3	μg/L	1.0	1	Below	15	
103-PbW-11	1st floor @ B34	8.76	19.7	R DF	Copper		96	μg/L	1.0	1	Below	1300	
103-PbW-11	1st floor @ B34	8.76	19.7	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-12	1st floor @ B34	8.13	19.3	L DF	Copper		59	μg/L	1.0	1	Below	1300	
103-PbW-12	1st floor @ B34	8.13	19.3	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-13	Duplicate of 103-PbW-12	8.13	19.3	L DF D	Copper	1	64	μg/L	1.0	1	Below	1300	
103-PbW-13	Duplicate of 103-PbW-12	8.13	19.3	L DF D	Lead	<	1.0	μg/L	1.0	1	Below	15	
103-PbW-14	1st floor @ J34	8.08	11.7	L DF	Copper		170	μg/L	1.0	1	Below	1300	
103-PbW-14	1st floor @ J34	8.08	11.7	L DF	Lead	<	1.0	μg/L	1.0	1	Below	15	

Appendix A Results Summary by Location

	Goodfellow Federal Center - Building 103											
Sample Number	Location	рН	Temp (°C)	Water Source	Analyte		Result	Units	MRL	Dil Factor	Above/ Below	AL
103-PbW-15	1st floor @ J34	8.16	13.9	R DF	Copper		600	μg/L	1.0	1	Below	1300
103-PbW-15	1st floor @ J34	8.16	13.9	R DF	Lead	<	1.0	μg/L	1.0	1	Below	15

Notes:

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

MRL - Method Reporting Limit

Dil - Dilution

AL - Action Level

µg/L - micrograms per liter

APPENDIX B – WATER SAMPLE LABORATORY REPORT



Eaton Analytical

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.

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



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



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.
 - Attn: Kevin Heriford 2604 NE Industrial Drive Suite 230 North Kansas City, MO 64117

Report: Priority: Status: PWS ID: 482201 Standard Written Final Not Supplied

	Sampl	e Information			
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4598977	103-PbW-01	200.8	03/30/20 09:04	Client	03/31/20 08:30
4598978	103-PbW-02	200.8	03/30/20 09:06	Client	03/31/20 08:30
4598979	103-PbW-03	200.8	03/30/20 09:11	Client	03/31/20 08:30
4598980	103-PbW-04	200.8	03/30/20 09:13	Client	03/31/20 08:30
4598981	103-PbW-05	200.8	03/30/20 09:21	Client	03/31/20 08:30
4598982	103-PbW-06	200.8	03/30/20 09:24	Client	03/31/20 08:30
4598983	103-PbW-07	200.8	03/30/20 09:30	Client	03/31/20 08:30
4598984	103-PbW-08	200.8	03/30/20 09:30	Client	03/31/20 08:30
4598985	103-PbW-09	200.8	03/30/20 09:49	Client	03/31/20 08:30
4598986	103-PbW-10	200.8	03/30/20 09:52	Client	03/31/20 08:30
4598987	103-PbW-11	200.8	03/30/20 09:56	Client	03/31/20 08:30
4598988	103-PbW-12	200.8	03/30/20 09:58	Client	03/31/20 08:30
4598989	103-PbW-13	200.8	03/30/20 09:58	Client	03/31/20 08:30
4598990	103-PbW-14	200.8	03/30/20 10:03	Client	03/31/20 08:30
4598991	103-PbW-15	200.8	03/30/20 10:05	Client	03/31/20 08:30
	Repo	ort 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

04/09/2020

Date

Title

Sampling Point: 103-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	210	ug/L		04/07/20 13:28	4598977		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:28	4598977		

Sampling Point: 103-PbW-02

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	620	ug/L		04/07/20 13:36	4598978		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:36	4598978		

Sampling Point: 103-PbW-03

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	1100	ug/L		04/07/20 13:38	4598979	
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:38	4598979	

Sampling Point: 103-PbW-04

PWS ID: Not Supplied

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	1200	ug/L		04/07/20 13:41	4598980			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:41	4598980			

Sampling Point: 103-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	57	ug/L		04/07/20 13:43	4598981			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:43	4598981			

Sampling Point: 103-PbW-06

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	51	ug/L		04/07/20 13:45	4598982			
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:45	4598982			

Sampling Point: 103-PbW-07

PWS ID: Not Supplied

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	42	ug/L		04/07/20 13:48	4598983		
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:48	4598983		

Sampling Point: 103-PbW-08

			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	42	ug/L		04/07/20 13:50	4598984
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 13:50	4598984

Sampling Point: 103-PbW-09

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	640	ug/L		04/07/20 13:53	4598985
7439-92-1	Lead	200.8	15 !	1.0	2.0	ug/L		04/07/20 13:53	4598985

Sampling Point: 103-PbW-10

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	1700	ug/L		04/07/20 13:55	4598986
7439-92-1	Lead	200.8	15 !	1.0	3.3	ug/L		04/07/20 13:55	4598986

Sampling Point: 103-PbW-11

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	96	ug/L		04/07/20 14:03	4598987
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 14:03	4598987

Sampling Point: 103-PbW-12

PWS ID: Not Supplied

PWS ID: Not Supplied

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	59	ug/L		04/07/20 14:05	4598988
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 14:05	4598988

Sampling Point: 103-PbW-13

			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	64	ug/L		04/07/20 14:08	4598989
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 14:08	4598989

Sampling Point: 103-PbW-14

Lead and Copper MRL† Analyte Analyte Method Reg Result Units Preparation Analyzed EEA ID # Limit Date ID # 170 7440-50-8 200.8 1300 ! 1.0 ug/L 04/07/20 14:10 4598990 Copper ____ 7439-92-1 Lead 200.8 15 ! 1.0 < 1.0 ug/L 04/07/20 14:10 4598990 ----

Sampling Point: 103-PbW-15

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	600	ug/L		04/07/20 14:12	4598991
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L		04/07/20 14:12	4598991

† 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.

993	H.	2		Э	DUND TIM) ХІЯТ)ЯАИЯ		DW SW	-																					-11
394993	482	l of			L SAJNIATI			-					-			-	-	-		-	ES TO CLIENT				NA			185 1av		Date: 2018-10
	Order # Batch #	Page	#Od	pneier	10101	CHLORINATED	YES NO	>	-	-						2				1	UEOUS SAMPLE				sceipt			ounced with le	charges.	Effective [
	Street 1, IN 46617 2.4345 3.8207		PROJECT NAME		(0+1)	SAMPLE REMARKS															ED PORTIONS OF NON-AG				°C Upon Receipt			Samples received unann han 48 hours holding tin	be subject to additional o	6-LO-F0435 Issue 7.0
	110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207	0	STATE (sample origin)	MO	MUNIUPOU	-		oper													LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOM-AQUEOUS SAMPLES TO CLIENT				CONDITIONS UPON RECEIPT (check one):		•	0 =		0
		CUSTODY RECORD				TEST NAME		9	-												AB RESERVES T	ENTS			LIPON RECEIPT Iced: Wet/Blue		100%	125% CALL	CALL	
1		ODY R	# OI SMd	N/A	POPULATION SERVED $N A$	-		and														LAB COMMENTS			CONDITIONS		rking days)	orking days)		
		CUST		Î	ldOd			Lead	_												TIME		AM PM TIME	AM PM	TIME 0530	AM PM	e Verbal: (3 woi	a Written: (3 wo	han 48 hours	
	Ň	CHAIN OF		(b) (6)	on ×																DATE		DATE		DATE WW.18		IV* = Immediate Verbal: (3 working days)	IW* =Immediate Written: (3 working days) SP* = Weekend, Holidav	STAT* = Less	
	n Analytical	CH/		(6)	COMPLIANCE MONITORING	SAMPLING SITE	Ċ	- Mgd -	102 - PDM - 02	- Mag -				103 - PbW - 08	103 - PbW - 09	103 - PbW - 10	103 - PbW -11	103 - PbW - 12	103 - PbW - 13	103 - PbW -14	RECEIVED BY:(Signature)		RECEIVED BY:(Signature)		(q) (q)		vorking days) 0%	i days) 75% 75%	STAT' = Less than 4B hours CALL be subject to additional charges.	service not available for all testing
8	Eaton	e only	a burnsmcd. (om SAMPLER (Signature)	4114	e R	N		1 4060	1	1	092 1	0924 J	0936 1,	0936 1	1 6490	7	0956 1	1	0958 1/	1003 1		3/30/20 1600	E.	AM PM	DATE TIME F	TURN-AROUND TIME	SW = Standard Written: (15 working days) PV* = Pueb Vorbel: // modulor days)	RW* = Rush Written: (5 workin		Please Call, expedited
	eurofins	.com/Eaton Shaded area for EEA use only		SE .			DATE	2/20/20											-	. 0	nature)	5) 5)	lature)		nature)	DES:		œ		ided according to the
	🔅 eur	www.EurofinsUS.com/Eaton Shaded a	TO: MShar	9400 Ward F Yansas City.	same	LAB Number	((0))	DLD CHCHI	67	4 080	5 a81	6 982	7 983	8 954	67 68	10 986	11 048	12 958	13 1 989	14 C190	RELINQUISHED BY: (Signature)		REHINQUISHED BY:(Signature)		RELINQUISHED BY:(Signature)	MATRIX CODES.	DW-DRINKING WATER RW-REAGENT WATER	GW-GROUND WATER EW-EXPOSURE WATEF	PW-POOL WATER WW-WASTE WATER	mole analysis will be provi

394993	*		2 0 2	#Od	5	SAE		F COI	AM	I DN SW												APLES TO CLIENT						- NA			h less	April B.	e Date: 2018-10-11
	110 S. Hill Street South Bend, IN 46617 Order # T: 1.800.332.4345 F: 1.574.233.8207 Batch #			PROJECT NAME		GFC 1121244		SAMPLE REMARKS CHLORINATED	YES	>									-			SED PORTIONS OF NON-AQUEOUS SAI									Samples received unannounced with less than 48 hours holding time remaining man	be subject to additional charges.	36-LO-F0435 Issue 7.0 Effectiv
	110 S. Hill Street South Bend, IN 46 T: 1.800.332.4345 F: 1.574.233 8202		RECORD	# STATE (sample origin)	MO	SERVED SOURCE WATER	Muniupad	TEST NAME		and Lepper	/									-		LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT	MEN I S				CONDITIONS UPON RECEIPT (check one) leed Wet/Blue			100%	125% CALL		0
			CHAIN OF CUSTODY RECORD	# CI SMd	5) A	HOH	XNA			I Kad a											$\left\{ \right\}$			DATE TIME		DATE TIME	100 0820	AM PM		IV = Immediate Verbal: (3 working days)	SP* = Weekend, Holiday	STAT* = Less than 48 hours	
	nalvtical			SAMPLEK (Signature)		COMPLIANCE	NITORING	SAMPLING SITE	- DINI-15					×							BECEWED BV:(Signature)	Lo bi - (oignature)	*1	RECEIVED BY:(Signature)		RECEIVED FOR LABORATORY BY:	(b) (6)	2 2	.0%	-	75%		not available tor all testing
	IS Eaton Analytica			W BUTHS MCQ. COM SAMPL	11	CO	ŌW	COLLECTION	1005 1												DATE TIME	0001	3/30/20 AM 1PM	DATE TIME RECEIV	MA	-		TURN-AROUND TIME (TAT) - SURCHARGES	SW = Standard Written: (15 working davs)	RV* = Rush Verbal: (5 working days)	RW* = Rush Written: (5 working days)		le record carl, experired service not avaitable for all testing
	eurofins .	www.EurofinsUS.com/Eaton	REPORT TO: An standed area for EEA use only		Kansas City, Mo 64/14		mums	LAB Number	1 459 991 3/30/20	2	3	4 u	7	8	0	10	11	12	13	14	RELINQUISHED BY (Signature)	(b) (6)		RELINQUISHID BY (Signature)		RELINQUISHED BY:(Signature)		MATRIX CODES:	DW-DRINKING WATER	RW-REAGENT WATER	BEW-EXPOSURE WATER	6 PW-POOL WATER 6 WW-WASTE WATER	Samp@analysis will be provided according to the standard FFAM/ater Services Tarms which are available to all testing