

March 27, 2019

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. # 104 Drinking Water Sampling
Project # 918004.002**

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, OCCU-TEC conducted drinking water sampling and testing for the presence of lead and copper at Building #104 of the Goodfellow Federal Center located at 4300 Goodfellow Federal 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. #104 was conducted on March 01, 2019 by Mr. Austin O’Byrne 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.

Drinking water sampling for the presence of lead and copper was conducted at fifteen (15) distinct locations within Building #104. A total of seventeen (17) samples were obtained including duplicate samples. After each drinking water sample was collected, OCCU-TEC filled a separate sample cup with approximately 2 inches of water. OCCU-TEC placed an Oakton model PHTester30 pH meter into the sample cup. After readings stabilized, OCCU-TEC 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 tables below.

Water Sample Summary

Analysis	Lowest Concentration	Highest Concentration	Action Level*
Lead	< 0.001 mg/L	< 0.001 mg/L	0.015 mg/L
Copper	0.027 mg/L	0.200 mg/L	1.3 mg/L

Samples with a “<” sign indicate that the results were below the reportable limit.

*As per EPA Lead and Copper Rule (40 CFR Part 141 Subpart I)

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

LEAD

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

COPPER

All samples were below the AL for copper.

PH

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 #104 ranged from 8.57 to 9.32 indicating the drinking water is slightly alkaline.

LIMITATIONS

The scope of this assessment was limited in nature. OCCU-TEC 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. OCCU-TEC 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 OCCU-TEC's written permission. Any parties relying on the report, with OCCU-TEC's written permission, are bound by the terms and conditions outlined in the original proposal as if said proposal was prepared for them.

OCCU-TEC 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)

Jeff T. Smith
Senior Project Manager

(b) (6)

Kevin Heriford
Project Manager (QA/QC)

ATTACHMENTS

Appendix A, Water Sample Location Diagrams
Appendix B, Results Summary by Location
Appendix C, Water Sample Laboratory Report

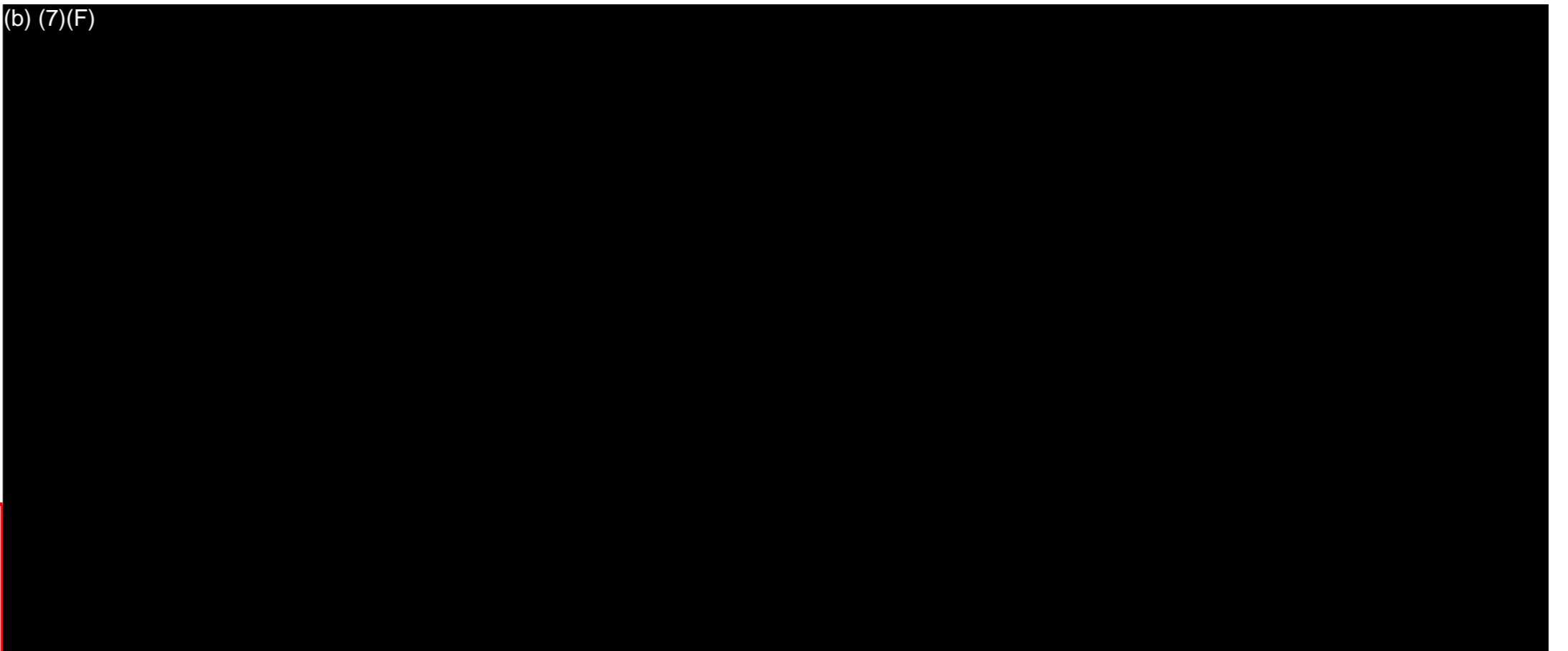


Appendix A
Water Sample Location Diagrams

(b) (7)(F)



(b) (7)(F)



**Figure 2: Drinking Water Sample Location Maps—2nd Floor bldg.
104**

Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri

(b) (7)(F)

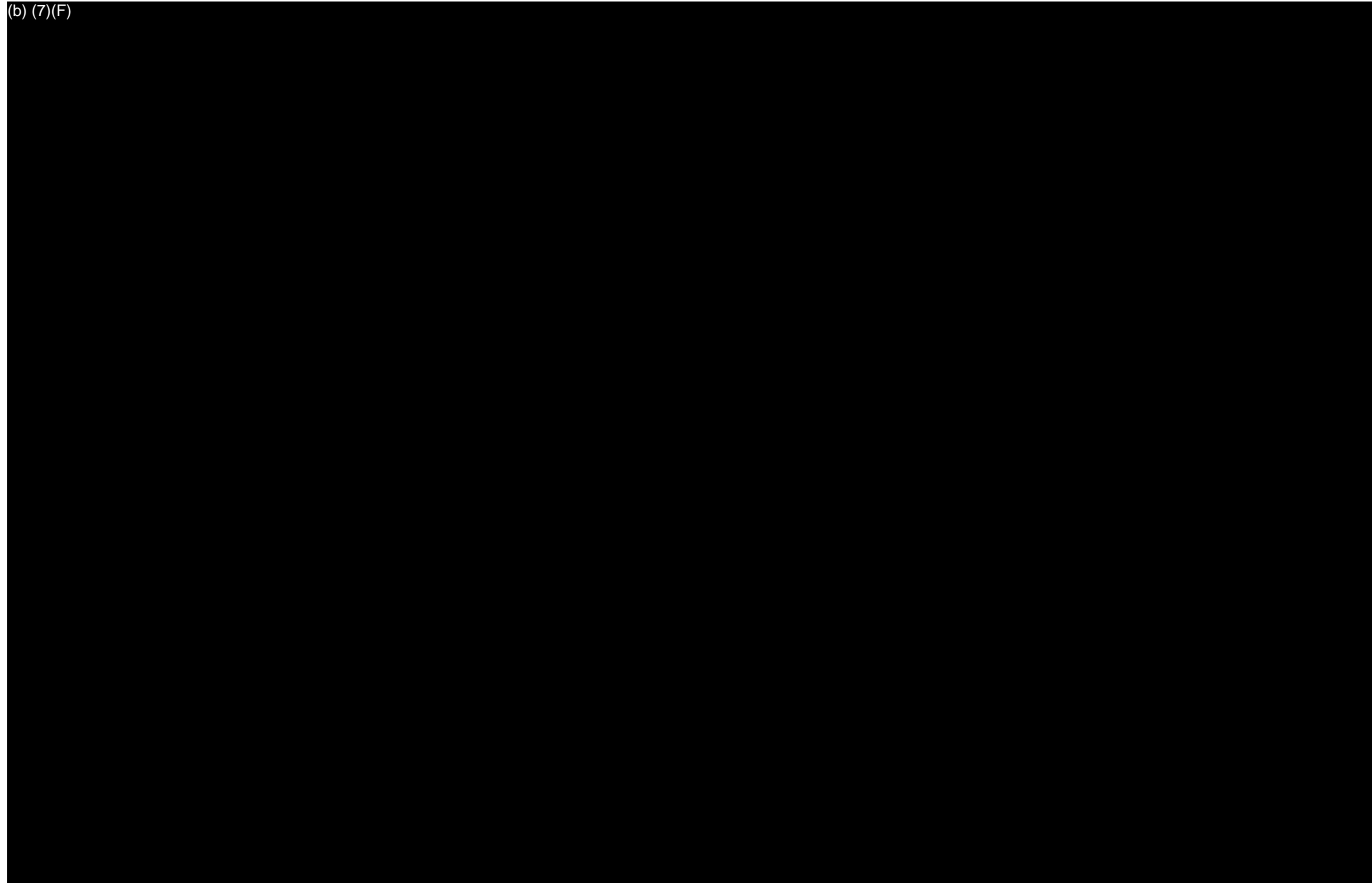


Figure 1: Drinking Water Sample Location Maps—1st Floor bldg. 104
Goodfellow Federal Center
4300 Goodfellow Boulevard
St. Louis, Missouri
Project Number: 918004

Appendix B
Results Summary by Location

Goodfellow Federal Center - Building 104

Sample Number	Location	Water Source	Temperature	pH	Analyte	Result	Units	Above/Below	AL
GFC-104-01	2nd Floor Column F 50 - Lakeside Café	Sink	19.1	9.16	Copper	0.180	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-01DUP	2nd Floor Column F 50 - Lakeside Café	Sink	19.1	9.16	Copper	0.170	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-02	2nd Floor Column C 44 - Limestone Lounge	Sink	22.5	9.17	Copper	0.091	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-03	2nd Floor Column D 43 - Apple Orchard Bistro	Sink	22.2	9.18	Copper	0.130	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-04	2nd Floor Column B 43	Oasis Drinking Fountain	20.2	8.91	Copper	0.027	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-05	2nd Floor Column C 36 - Corner Café	Sink	21.5	9.16	Copper	0.200	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-06	2nd Floor Column A 31 Breakroom	Sink	20.6	9.11	Copper	0.059	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-07	2nd Floor Column B 30 - Left Side	Elkay Drinking Fountain	24.1	9.21	Copper	0.120	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-08	2nd Floor Column B 30 - Right Side	Elkay Drinking Fountain	26.6	9.16	Copper	0.052	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-09	2nd Floor Column C 25 - Ozark Oasis	Sink	24.8	9.19	Copper	0.160	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-10	2nd Floor Column B 19 - Breakroom	SunRock Drinking Fountain	21.6	9.16	Copper	0.061	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-11	2nd Floor Column A 19 - Breakroom	Sink	20.7	9.15	Copper	0.047	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-12	2nd Floor Column F 4	SunRock Drinking Fountain	16.3	9.32	Copper	0.058	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-13	1st Floor Column F 3	Oasis Drinking Fountain	14.1	8.57	Copper	0.054	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-14	1st Floor Column E 9	Sink	19.3	9.01	Copper	0.071	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-15	1st Floor Column B 30	SunRock Drinking Fountain	20.4	9.22	Copper	0.066	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015
GFC-104-15DUP	1st Floor Column B 30	SunRock Drinking Fountain	20.4	9.22	Copper	0.080	mg/L	Below AL	1.3
					Lead	< 0.001	mg/L	Below AL	0.015

Highlight indicates results at or above the Action Level (AL)

Appendix C
Water Sample Laboratory Report

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

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
 100 NW Business Park Lane
 Riverside, MO 64150

Report: 445610
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4222062	GFC-104-01	200.8	03/1/19 05:56	Client	03/11/19 09:45
4222063	GFC-104-01 DUP	200.8	03/1/19 05:56	Client	03/11/19 09:45
4222064	GFC-104-02	200.8	03/1/19 06:04	Client	03/11/19 09:45
4222065	GFC-104-03	200.8	03/1/19 06:08	Client	03/11/19 09:45
4222066	GFC-104-04	200.8	03/1/19 06:11	Client	03/11/19 09:45
4222067	GFC-104-05	200.8	03/1/19 06:19	Client	03/11/19 09:45
4222068	GFC-104-06	200.8	03/1/19 06:26	Client	03/11/19 09:45
4222069	GFC-104-07	200.8	03/1/19 06:29	Client	03/11/19 09:45
4222070	GFC-104-08	200.8	03/1/19 06:33	Client	03/11/19 09:45
4222071	GFC-104-09	200.8	03/1/19 06:36	Client	03/11/19 09:45
4222072	GFC-104-10	200.8	03/1/19 06:42	Client	03/11/19 09:45
4222073	GFC-104-11	200.8	03/1/19 06:46	Client	03/11/19 09:45
4222074	GFC-104-12	200.8	03/1/19 06:50	Client	03/11/19 09:45
4222075	GFC-104-13	200.8	03/1/19 07:00	Client	03/11/19 09:45
4222076	GFC-104-14	200.8	03/1/19 07:05	Client	03/11/19 09:45
4222077	GFC-104-15	200.8	03/1/19 07:12	Client	03/11/19 09:45
4222078	GFC-104-15 DUP	200.8	03/1/19 07:12	Client	03/11/19 09:45

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 Kelly Blackburn at (574) 233-4777.

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

(b) (6)

ASM

Authorized Signature

Title

Date

03/19/2019

Client Name: OCCU-TEC Inc.

Report #: 445610

Sampling Point: GFC-104-01

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	180	ug/L	---	03/14/19 15:14	4222062
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:14	4222062

Sampling Point: GFC-104-01 DUP

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	170	ug/L	---	03/14/19 15:15	4222063
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:15	4222063

Sampling Point: GFC-104-02

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	91	ug/L	---	03/14/19 15:17	4222064
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:17	4222064

Sampling Point: GFC-104-03

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	130	ug/L	---	03/14/19 15:25	4222065
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:25	4222065

Sampling Point: GFC-104-04

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	27	ug/L	---	03/14/19 15:30	4222066
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:30	4222066

Sampling Point: GFC-104-05

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	200	ug/L	---	03/14/19 15:32	4222067
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:32	4222067

Sampling Point: GFC-104-06

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	59	ug/L	---	03/14/19 15:34	4222068
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:34	4222068

Sampling Point: GFC-104-07

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	120	ug/L	---	03/14/19 15:35	4222069
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:35	4222069

Sampling Point: GFC-104-08

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	52	ug/L	---	03/14/19 15:37	4222070
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:37	4222070

Sampling Point: GFC-104-09

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	160	ug/L	---	03/14/19 15:38	4222071
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:38	4222071

Sampling Point: GFC-104-10

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	61	ug/L	---	03/14/19 15:40	4222072
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:40	4222072

Sampling Point: GFC-104-11

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	47	ug/L	---	03/14/19 15:42	4222073
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:42	4222073

Sampling Point: GFC-104-12

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	58	ug/L	---	03/14/19 15:43	4222074
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:43	4222074

Sampling Point: GFC-104-13

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	54	ug/L	---	03/14/19 15:48	4222075
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:48	4222075

Sampling Point: GFC-104-14

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	71	ug/L	---	03/14/19 15:53	4222076
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:53	4222076

Sampling Point: GFC-104-15

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	66	ug/L	---	03/14/19 15:55	4222077
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:55	4222077

Sampling Point: GFC-104-15 DUP

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	80	ug/L	---	03/14/19 15:56	4222078
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	03/14/19 15:56	4222078

† 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:	*	^	!

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

Order # 364813
Batch # 445610

www.EurofinsUS.com/Eaton

Shaded area for EEA use only

REPORT TO: THENDU@ACCUTECH.COM

100 NW Business Park Lane

Riverside, MO 64150

BILL TO: OCU-TEC

100 NW Business Park Lane

Riverside, MO 64150

CHAIN OF CUSTODY RECORD

Page 1 of 2

LAB NUMBER	COLLECTION		SAMPLER (Signature)	COMPLIANCE MONITORING	POPULATION SERVED	STATE (sample origin)	PROJECT NAME	PO#	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME									
1	3/1/19	5:56	[Redacted]		NA	MO	Goodfellow Federal Center	918004	1	0W 5W	
2	3/1/19	5:56	[Redacted]		NA	Municipal		002011	1	0W 5W	
3	3/1/19	6:04		X					1	0W 5W	
4	3/1/19	6:08							1	0W 5W	
5	3/1/19	6:11							1	0W 5W	
6	3/1/19	6:19							1	0W 5W	
7	3/1/19	6:26							1	0W 5W	
8	3/1/19	6:29							1	0W 5W	
9	3/1/19	6:33							1	0W 5W	
10	3/1/19	6:36							1	0W 5W	
11	3/1/19	6:42							1	0W 5W	
12	3/1/19	6:46							1	0W 5W	
13	3/1/19	6:50							1	0W 5W	
14	3/1/19	7:00							1	0W 5W	

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

RECEIVED BY: (Signature) [Redacted] DATE: 3-7-19 TIME: 7:00 AM

RECEIVED BY: (Signature) [Redacted] DATE: 3-11-19 TIME: 0945 AM

RECEIVED FOR LABORATORY BY: [Redacted] DATE: 3-11-19 TIME: 0945 AM

CONDITIONS UPON RECEIPT (check one):
 Iced: Weu/Blue Ambient °C Upon Receipt N/A

MATRIX CODES:
 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) - SURCHARGES:
 SW = Standard Written: (15 working days) 0%
 RW = Rush Written: (5 working days) 50%
 EW = Rush Written: (5 working days) 75%

IV* = Immediate Verbal: (3 working days) 100%
 IW* = Immediate Written: (3 working days) 125%
 SP* = Weekend, Holiday CALL
 STAT* = Less than 48 hours CALL

* 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.

36-LO-FM435 Issue 7.0 Effective Date: 2018-10-11

