



October 26, 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 September 17, 2020 by Emily Ahlemeyer of Burns & McDonnell and Jeff Smith 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.

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Drinking water sampling for the presence of lead and copper was conducted at fifteen (15) distinct locations within Building #103. A total of seventeen (17) 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 an Oakton pH30 pH tester 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	<1.0 µg/L	4.2 µg/L	15 µg/L
Copper	<1 µg/L	2600 µg/L	1300 µg/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

One sample exceeded the AL for copper. Sample 103-DW-13 resulted in a copper concentration of 2600 µg/L. 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.



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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 #103 ranged from 8.66 to 9.68 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

Appendix A

Results Summary by Location

Goodfellow Federal Center - Building 103											
Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	MRL	Dil Factor	Above/Below	AL
103-DW-01	1st floor, column J34	9.68	17.2	R DF	Copper	190	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-02	1st floor, column B34	9.41	19.9	R DF	Copper	54	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-03	Duplicate of 103-DW-02	9.41	19.9	R DF D	Copper	62	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-04	2nd floor, column H34	9.33	20.2	Sink	Copper	44	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-05	2nd floor, column H36	9.36	17.4	R DF	Copper	900	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-06	2nd floor, column C34*	9.60	20.0	Sink	Copper	22	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-07	2nd floor, column B34	9.61	20.7	L DF	Copper	45	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-08	1st floor, column B5, bottle filler	9.48	20.1	R DF	Copper	< 1.0	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-09	1st floor, column B5	9.32	19.3	L DF	Copper	45	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-10	2nd floor, column B14	9.37	17.8	R DF	Copper	890	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-11	2nd floor, column B22, men's restroom	9.34	21.3	Sink	Copper	24	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-12	Duplicate of 103-DW-11	9.34	21.3	Sink D	Copper	20	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15
103-DW-13	2nd floor, column H6	8.66	17.3	R DF	Copper	2600	µg/L	1.0	1	Above	1300
					Lead	3.7	µg/L	1.0	1	Below	15
103-DW-14	2nd floor, column G5, break room	9.09	19.0	Sink	Copper	42	µg/L	1.0	1	Below	1300
					Lead	< 1.0	µg/L	1.0	1	Below	15

Appendix A
Results Summary by Location

Goodfellow Federal Center - Building 103											
Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	MRL	Dil Factor	Above/Below	AL
103-DW-15	1st floor, column B22	9.58	18.2	DF	Copper	75	µg/L	1.0	1	Below	1300
					Lead	2.8	µg/L	1.0	1	Below	15
103-DW-16	1st floor, column B14, women's restroom	9.20	19.5	Sink	Copper	75	µg/L	1.0	1	Below	1300
					Lead	4.2	µg/L	1.0	1	Below	15
103-DW-17	2nd floor, column B34	9.36	17.6	R DF	Copper	480	µg/L	1.0	1	Below	1300
					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

APPENDIX B – 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(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
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
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: Burns & McDonnell Engineers

Attn: Emily Ahlemeyer
 2604 NE Industrial Drive
 Suite 230
 North Kansas City, MO 64117

Report: 499014
 Priority: Standard Written
 Status: Final
 PWS ID: Not Supplied

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4732179	103-DW-01	200.8	09/17/20 06:47	Client	09/23/20 09:30
4732180	103-DW-02	200.8	09/17/20 06:52	Client	09/23/20 09:30
4732181	103-DW-03	200.8	09/17/20 06:52	Client	09/23/20 09:30
4732182	103-DW-04	200.8	09/17/20 07:02	Client	09/23/20 09:30
4732183	103-DW-05	200.8	09/17/20 07:04	Client	09/23/20 09:30
4732184	103-DW-06	200.8	09/17/20 07:12	Client	09/23/20 09:30
4732185	103-DW-07	200.8	09/17/20 07:17	Client	09/23/20 09:30
4732186	103-DW-08	200.8	09/17/20 07:32	Client	09/23/20 09:30
4732187	103-DW-09	200.8	09/17/20 07:34	Client	09/23/20 09:30
4732188	103-DW-10	200.8	09/17/20 07:39	Client	09/23/20 09:30
4732189	103-DW-11	200.8	09/17/20 07:42	Client	09/23/20 09:30
4732190	103-DW-12	200.8	09/17/20 07:42	Client	09/23/20 09:30
4732191	103-DW-13	200.8	09/17/20 07:47	Client	09/23/20 09:30
4732192	103-DW-14	200.8	09/17/20 07:52	Client	09/23/20 09:30
4732193	103-DW-15	200.8	09/17/20 08:00	Client	09/23/20 09:30
4732194	103-DW-16	200.8	09/17/20 08:20	Client	09/23/20 09:30
4732195	103-DW-17	200.8	09/17/20 08:35	Client	09/23/20 09:30

Report Summary

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

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

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(b) (6)



10/20/2020

Authorized Signature

Title

Date

Client Name: Burns & McDonnell Engineers

Report #: 499014

Sampling Point: 103-DW-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	190	ug/L	---	09/29/20 18:27	4732179
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:27	4732179

Sampling Point: 103-DW-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	54	ug/L	---	09/29/20 18:30	4732180
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:30	4732180

Sampling Point: 103-DW-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	62	ug/L	---	09/29/20 18:32	4732181
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:32	4732181

Sampling Point: 103-DW-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	44	ug/L	---	09/29/20 18:35	4732182
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:35	4732182

Sampling Point: 103-DW-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	900	ug/L	---	09/29/20 18:38	4732183
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:38	4732183

Sampling Point: 103-DW-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	22	ug/L	---	09/29/20 18:46	4732184
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:46	4732184

Sampling Point: 103-DW-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	45	ug/L	---	09/29/20 18:49	4732185
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:49	4732185

Sampling Point: 103-DW-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	< 1.0	ug/L	---	09/29/20 18:52	4732186
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:52	4732186

Sampling Point: 103-DW-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	45	ug/L	---	09/29/20 18:54	4732187
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:54	4732187

Sampling Point: 103-DW-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	890	ug/L	---	09/29/20 18:57	4732188
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 18:57	4732188

Sampling Point: 103-DW-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	24	ug/L	---	09/29/20 19:06	4732189
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 19:06	4732189

Sampling Point: 103-DW-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	20	ug/L	---	09/29/20 19:08	4732190
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 19:08	4732190

Sampling Point: 103-DW-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	2600	ug/L	---	09/29/20 19:11	4732191
7439-92-1	Lead	200.8	15 !	1.0	3.7	ug/L	---	09/29/20 19:11	4732191

Sampling Point: 103-DW-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	42	ug/L	---	09/29/20 19:14	4732192
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 19:14	4732192

Sampling Point: 103-DW-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	75	ug/L	---	09/29/20 19:17	4732193
7439-92-1	Lead	200.8	15 !	1.0	2.8	ug/L	---	09/29/20 19:17	4732193

Sampling Point: 103-DW-16

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	75	ug/L	---	09/29/20 19:30	4732194
7439-92-1	Lead	200.8	15 !	1.0	4.2	ug/L	---	09/29/20 19:30	4732194

Sampling Point: 103-DW-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	480	ug/L	---	09/29/20 19:33	4732195
7439-92-1	Lead	200.8	15 !	1.0	< 1.0	ug/L	---	09/29/20 19:33	4732195

† 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.

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

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

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

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

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

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



Eaton Analytical

www.EurofinsUs.com/Eaton

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO: m3nagahan@burnsmd.com (SAMPLER) (Signature)

1400 Ward Parkway
Kansas City, MO 64114

same

COMPLIANCE / MONITORING

YES

N/A

MO

GFC

121244

PO#

TURNAROUND TIME

MATRIX CODE

OF CONTAINERS

CHLORINATED YES NO

Residual Chlorine (P/A)

pH acceptable ✓

Preservative Checks

TEST NAME

Lead and Copper

SAMPLING SITE

TEST NAME

POPULATION SERVED

STATE (sample origin)

PROJECT NAME

110 S. Hill Street

South Bend, IN 46617

T: 1.800.332.4345

F: 1.574.233.8207

Order # 406972

Batch # 499014

LAB Number	COLLECTION		DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	POPULATION SERVED	STATE (sample origin)	PROJECT NAME	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME										YES	NO			
4732	179	9/17/20	0647	X			103-DW-01	Lead and Copper	N/A	MO	GFC			1	DW	SW
180			0652	X			103-DW-02							1		
181			0652	X			103-DW-03							1		
182			0702	X			103-DW-04							1		
183			0704	X			103-DW-05							1		
184			0712	X			103-DW-06							1		
185			0717	X			103-DW-07							1		
186			0732	X			103-DW-08							1		
187			0734	X			103-DW-09							1		
188			0739	X			103-DW-10							1		
189			0742	X			103-DW-11							1		
190			0742	X			103-DW-12							1		
191			0747	X			103-DW-13							1		
192			0752	X			103-DW-14							1		

RELINQUISHED BY: (Signature) [Signature] DATE 9/21/20 TIME 1600 AM

RECEIVED BY: (Signature) [Signature] DATE 9/23/20 TIME 1930 AM

RECEIVED FOR LABORATORY BY: [Signature] DATE 9/23/20 TIME 1930 AM

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

CONDITIONS UPON RECEIPT (check one):
 °C Upon Receipt Ambient

MATRIX CODES:
 DW- DRINKING WATER RW- REAGENT WATER GW- GROUND WATER LW- EXPOSURE WATER SW- SURFACE WATER PW- POOL WATER WW- WASTE WATER

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

TURN-AROUND TIME (TAT) - SURCHARGES
 SW = Standard Written (15 working days)
 50% RW* = Rush Written (5 working days) 75%
 75% RW* = Rush Verbal (5 working days)
 * Please call, expedited service not available for all testing

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