



December 21, 2021
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 – Sequential Tests
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 select sources throughout the building. These sources were selected based on the results of the semiannual drinking water sampling completed in June 2021 and subsequent resampling completed in October 2021. Drinking water sampling at Bldg. 105 was conducted on December 8, 2021 by Jeff Smith of OCCU-TEC and Emily Pulcher 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.

First draw samples were collected 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. Additional, sequential samples were also collected in an attempt to locate the potential sources of lead and copper contamination. The sampling sequence is described below:

- **First Draw (A):** This sample tests the water that has been sitting in the line at the faucet/fixture.

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- Second Draw (B): This sample is taken directly after the first sample and tests the water immediately upstream from the faucet.
- Third Draw (C): This sample is collected after the water turns cold or there is some other indication that the water is from the service line and not the fixture itself.
- Fourth Sample (D): This sample is collected after the water has been running full force for approximately 5 minutes. This sample is intended to test the water at the water main before it enters the building’s plumbing system.

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 transport. Each sample was acidified at the laboratory as needed.

Drinking water sampling for the presence of lead and copper was conducted at four (4) distinct locations within Building 105. 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	Highest Concentration	Action Level^(a)
Lead	<0.5 µg/L	360 µg/L	15 µg/L
Copper	<1 µg/L	68 µg/L	1300 µg/L

Notes:

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

(b) µg/L – micrograms per liter

Five (5) samples resulted in levels over the action level of 15 µg/L for lead.

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1. A first draw sample taken from the northeast sink in lab room 324 on the second floor of building 105 had a lead concentration of 360 µg/L. A second draw sample from the same sink had a lead concentration of 130 µg/L.
2. A first draw sample taken from the sink in the east island in lab room 328 on the second floor of building 105 had a lead concentration of 35 µg/L.
3. A sample taken from the sink on the south wall in lab room 328 on the second floor of building 105 had a lead concentration of 130 µg/L. A second draw sample from the same sink had a lead concentration of 21 µg/L.

None of the third or fourth draw samples exceeded the action levels. This indicates that the source of the lead and copper contamination is likely within the fixture itself or plumbing immediately upstream of the fixture.

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.

Burns & McDonnell appreciates the opportunity to work with the GSA 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 - Results Summary by Location
- Appendix B - Water Sample Laboratory Report



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Information in Appendices A and B is not accessible for people using screen reader technology. If this information is required, it can be furnished upon request by contacting 816-223-6198 or r6environmental@gsa.gov.

APPENDIX A – RESULTS SUMMARY BY LOCATION

Appendix A
Results Summary by Location

Sample Number	Location	Water Source	Analyte	Result	Units	Above / Below	AL
105-DW-28R-A	2nd floor, Lab Room 324, NE sink	Sink	Copper	68	µg/L	Below	1300
			Lead	360	µg/L	Above	15
105-DW-28R-B	2nd floor, Lab Room 324, NE sink	Sink	Copper	61	µg/L	Below	1300
			Lead	130	µg/L	Above	15
105-DW-28R-C	2nd floor, Lab Room 324, NE sink	Sink	Copper	< 1	µg/L	Below	1300
			Lead	< 0.5	µg/L	Below	15
105-DW-28R-D	2nd floor, Lab Room 324, NE sink	Sink	Copper	< 1	µg/L	Below	1300
			Lead	< 0.5	µg/L	Below	15
105-DW-30R-A	2nd floor, Lab Room 328, E Island	Sink	Copper	45	µg/L	Below	1300
			Lead	35	µg/L	Above	15
105-DW-30R-B	2nd floor, Lab Room 328, E Island	Sink	Copper	46	µg/L	Below	1300
			Lead	3.6	µg/L	Below	15
105-DW-30R-C	2nd floor, Lab Room 328, E Island	Sink	Copper	40	µg/L	Below	1300
			Lead	2.3	µg/L	Below	15
105-DW-30R-D	2nd floor, Lab Room 328, E Island	Sink	Copper	11	µg/L	Below	1300
			Lead	1.2	µg/L	Below	15
105-DW-31R-A	2nd floor, Lab Room 328, S wall	Sink	Copper	23	µg/L	Below	1300
			Lead	130	µg/L	Above	15
105-DW-31R-B	2nd floor, Lab Room 328, S wall	Sink	Copper	12	µg/L	Below	1300
			Lead	21	µg/L	Above	15
105-DW-31R-C	2nd floor, Lab Room 328, S wall	Sink	Copper	7.6	µg/L	Below	1300
			Lead	0.84	µg/L	Below	15
105-DW-31R-D	2nd floor, Lab Room 328, S wall	Sink	Copper	4.9	µg/L	Below	1300
			Lead	< 0.5	µg/L	Below	15
105-DW-37R-A	2nd floor, Lab Room 347, E wall	Sink	Copper	62	µg/L	Below	1300
			Lead	7.8	µg/L	Below	15
105-DW-37R-B	2nd floor, Lab Room 347, E wall	Sink	Copper	31	µg/L	Below	1300
			Lead	4.5	µg/L	Below	15
105-DW-37R-C	2nd floor, Lab Room 347, E wall	Sink	Copper	8.1	µg/L	Below	1300
			Lead	1.4	µg/L	Below	15
105-DW-37R-D	2nd floor, Lab Room 347, E wall	Sink	Copper	4.4	µg/L	Below	1300
			Lead	1.8	µg/L	Below	15

Notes:

AL - Action Level

µg/L - micrograms per liter

APPENDIX B – WATER SAMPLE LABORATORY REPORT

ANALYTICAL REPORT

Eurofins Eaton Analytical - South Bend
110 S Hill Street
South Bend, IN 46617
Tel: (574)233-4777

Laboratory Job ID: 810-9698-1
Client Project/Site: Burns & McDonnell-GFC
Revision: 1

For:
Burns & McDonnell
425 South Woods Mill Road
Chesterfield, Missouri 63017

Attn: Mr. Matt Shanahan

(b) (6)

Authorized for release by:
1/3/2022 2:38:34 PM

Patricia Muff, Project Manager
(574)233-4777
patricia.muff@eurofinset.com

LINKS

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results through
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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Job ID: 810-9698-1

Laboratory: Eurofins Eaton Analytical - South Bend

Narrative

Job Narrative 810-9698-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 12/20/2021. The report (revision 1) is being revised due to: Report revised to correct the duplicate sample id for 105-DW-30R-C. Correct sample id - 105-DW-30R-D.

Receipt

The samples were received on 12/10/2021 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Client Sample Results

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-28R-A

Date Collected: 12/08/21 09:55
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-1

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	360		0.50	ug/L			12/15/21 14:56	1
Copper	68		1.0	ug/L			12/15/21 14:56	1

Client Sample ID: 105-DW-28R-B

Date Collected: 12/08/21 09:55
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-2

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		0.50	ug/L			12/15/21 14:58	1
Copper	61		1.0	ug/L			12/15/21 14:58	1

Client Sample ID: 105-DW-28R-C

Date Collected: 12/08/21 09:56
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-3

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			12/15/21 15:01	1
Copper	<1.0		1.0	ug/L			12/15/21 15:01	1

Client Sample ID: 105-DW-28R-D

Date Collected: 12/08/21 10:02
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-4

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			12/15/21 15:08	1
Copper	<1.0		1.0	ug/L			12/15/21 15:08	1

Client Sample ID: 105-DW-30R-A

Date Collected: 12/08/21 09:47
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-5

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	35		0.50	ug/L			12/15/21 15:10	1
Copper	45		1.0	ug/L			12/15/21 15:10	1

Client Sample ID: 105-DW-30R-B

Date Collected: 12/08/21 09:47
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-6

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.6		0.50	ug/L			12/15/21 15:13	1
Copper	46		1.0	ug/L			12/15/21 15:13	1

Client Sample Results

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-30R-C

Date Collected: 12/08/21 09:48
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-7

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.3		0.50	ug/L			12/15/21 15:20	1
Copper	40		1.0	ug/L			12/15/21 15:20	1

Client Sample ID: 105-DW-30R-D

Date Collected: 12/08/21 09:53
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-8

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.50	ug/L			12/15/21 15:23	1
Copper	11		1.0	ug/L			12/15/21 15:23	1

Client Sample ID: 105-DW-31R-A

Date Collected: 12/08/21 09:40
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-9

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		0.50	ug/L			12/15/21 15:25	1
Copper	23		1.0	ug/L			12/15/21 15:25	1

Client Sample ID: 105-DW-31R-B

Date Collected: 12/08/21 09:40
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-10

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		0.50	ug/L			12/15/21 15:28	1
Copper	12		1.0	ug/L			12/15/21 15:28	1

Client Sample ID: 105-DW-31R-C

Date Collected: 12/08/21 09:41
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-11

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.84		0.50	ug/L			12/15/21 15:30	1
Copper	7.6		1.0	ug/L			12/15/21 15:30	1

Client Sample ID: 105-DW-31R-D

Date Collected: 12/08/21 09:46
Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-12

Matrix: Drinking Water

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			12/15/21 15:32	1
Copper	4.9		1.0	ug/L			12/15/21 15:32	1

Client Sample Results

Client: Burns & McDonnell
 Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-37R-A

Lab Sample ID: 810-9698-13

Date Collected: 12/08/21 10:08

Matrix: Drinking Water

Date Received: 12/10/21 09:15

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.8		0.50	ug/L			12/15/21 15:35	1
Copper	62		1.0	ug/L			12/15/21 15:35	1

Client Sample ID: 105-DW-37R-B

Lab Sample ID: 810-9698-14

Date Collected: 12/08/21 10:08

Matrix: Drinking Water

Date Received: 12/10/21 09:15

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.5		0.50	ug/L			12/15/21 15:37	1
Copper	31		1.0	ug/L			12/15/21 15:37	1

Client Sample ID: 105-DW-37R-C

Lab Sample ID: 810-9698-15

Date Collected: 12/08/21 10:09

Matrix: Drinking Water

Date Received: 12/10/21 09:15

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.4		0.50	ug/L			12/15/21 15:45	1
Copper	8.1		1.0	ug/L			12/15/21 15:45	1

Client Sample ID: 105-DW-37R-D

Lab Sample ID: 810-9698-16

Date Collected: 12/08/21 10:15

Matrix: Drinking Water

Date Received: 12/10/21 09:15

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.8		0.50	ug/L			12/15/21 15:47	1
Copper	4.4		1.0	ug/L			12/15/21 15:47	1

Lab Chronicle

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-28R-A

Date Collected: 12/08/21 09:55

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 14:56	JK	EA SB

Client Sample ID: 105-DW-28R-B

Date Collected: 12/08/21 09:55

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 14:58	JK	EA SB

Client Sample ID: 105-DW-28R-C

Date Collected: 12/08/21 09:56

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:01	JK	EA SB

Client Sample ID: 105-DW-28R-D

Date Collected: 12/08/21 10:02

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:08	JK	EA SB

Client Sample ID: 105-DW-30R-A

Date Collected: 12/08/21 09:47

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:10	JK	EA SB

Client Sample ID: 105-DW-30R-B

Date Collected: 12/08/21 09:47

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:13	JK	EA SB

Client Sample ID: 105-DW-30R-C

Date Collected: 12/08/21 09:48

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:20	JK	EA SB

Lab Chronicle

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-30R-D

Date Collected: 12/08/21 09:53

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-8

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:23	JK	EA SB

Client Sample ID: 105-DW-31R-A

Date Collected: 12/08/21 09:40

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-9

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:25	JK	EA SB

Client Sample ID: 105-DW-31R-B

Date Collected: 12/08/21 09:40

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-10

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:28	JK	EA SB

Client Sample ID: 105-DW-31R-C

Date Collected: 12/08/21 09:41

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-11

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:30	JK	EA SB

Client Sample ID: 105-DW-31R-D

Date Collected: 12/08/21 09:46

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-12

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:32	JK	EA SB

Client Sample ID: 105-DW-37R-A

Date Collected: 12/08/21 10:08

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-13

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:35	JK	EA SB

Client Sample ID: 105-DW-37R-B

Date Collected: 12/08/21 10:08

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-14

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	9273	12/15/21 15:37	JK	EA SB

Lab Chronicle

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Client Sample ID: 105-DW-37R-C

Date Collected: 12/08/21 10:09

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-15

Matrix: Drinking Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	200.8		1	9273	12/15/21 15:45	JK	EA SB

Client Sample ID: 105-DW-37R-D

Date Collected: 12/08/21 10:15

Date Received: 12/10/21 09:15

Lab Sample ID: 810-9698-16

Matrix: Drinking Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	200.8		1	9273	12/15/21 15:47	JK	EA SB

Laboratory References:

EA SB = Eurofins Eaton Analytical - South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Laboratory: Eurofins Eaton Analytical - South Bend

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Missouri	State	880	09-30-24

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Method Summary

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical - South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



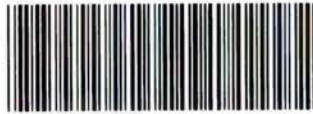
Sample Summary

Client: Burns & McDonnell
Project/Site: Burns & McDonnell-GFC

Job ID: 810-9698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-9698-1	105-DW-28R-A	Drinking Water	12/08/21 09:55	12/10/21 09:15
810-9698-2	105-DW-28R-B	Drinking Water	12/08/21 09:55	12/10/21 09:15
810-9698-3	105-DW-28R-C	Drinking Water	12/08/21 09:56	12/10/21 09:15
810-9698-4	105-DW-28R-D	Drinking Water	12/08/21 10:02	12/10/21 09:15
810-9698-5	105-DW-30R-A	Drinking Water	12/08/21 09:47	12/10/21 09:15
810-9698-6	105-DW-30R-B	Drinking Water	12/08/21 09:47	12/10/21 09:15
810-9698-7	105-DW-30R-C	Drinking Water	12/08/21 09:48	12/10/21 09:15
810-9698-8	105-DW-30R-D	Drinking Water	12/08/21 09:53	12/10/21 09:15
810-9698-9	105-DW-31R-A	Drinking Water	12/08/21 09:40	12/10/21 09:15
810-9698-10	105-DW-31R-B	Drinking Water	12/08/21 09:40	12/10/21 09:15
810-9698-11	105-DW-31R-C	Drinking Water	12/08/21 09:41	12/10/21 09:15
810-9698-12	105-DW-31R-D	Drinking Water	12/08/21 09:46	12/10/21 09:15
810-9698-13	105-DW-37R-A	Drinking Water	12/08/21 10:08	12/10/21 09:15
810-9698-14	105-DW-37R-B	Drinking Water	12/08/21 10:08	12/10/21 09:15
810-9698-15	105-DW-37R-C	Drinking Water	12/08/21 10:09	12/10/21 09:15
810-9698-16	105-DW-37R-D	Drinking Water	12/08/21 10:15	12/10/21 09:15





810-9698 Chain of Custody

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

Order # 433311
Batch #

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page 1 of 2

Shaded area for EEA use only

REPORT TO: **SAMPLER (Signature)** (b) (6) PWS ID # N/A STATE (sample origin) MO PROJECT NAME GFC PO# 121244

BILL TO: **COMPLIANCE MONITORING** Yes No POPULATION SERVED N/A SOURCE WATER Municipal

Same

LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM	PM				YES	NO			
1	12/08/21	955	X		105-DW-28R-A	Lead & Copper		X		1	DW	SW
2	12/08/21	955	X		105-DW-28R-B	Lead & Copper		X		1	DW	SW
3	12/08/21	956	X		105-DW-28R-C	Lead & Copper		X		1	DW	SW
4	12/08/21	1002	X		105-DW-28R-D	Lead & Copper		X		1	DW	SW
5	12/08/21	947	X		105-DW-30R-A	Lead & Copper		X		1	DW	SW
6	12/08/21	947	X		105-DW-30R-B	Lead & Copper		X		1	DW	SW
7	12/08/21	948	X		105-DW-30R-C	Lead & Copper		X		1	DW	SW
8	12/08/21	953	X		105-DW-30R-D	Lead & Copper		X		1	DW	SW
9	12/08/21	940	X		105-DW-31R-A	Lead & Copper		X		1	DW	SW
10	12/08/21	940	X		105-DW-31R-B	Lead & Copper		X		1	DW	SW
11	12/08/21	941	X		105-DW-31R-C	Lead & Copper		X		1	DW	SW
12	12/08/21	946	X		105-DW-31R-D	Lead & Copper		X		1	DW	SW
13	12/08/21	1008	X		105-DW-37R-A	Lead & Copper		X		1	DW	SW
14	12/08/21	1008	X		105-DW-37R-B	Lead & Copper		X		1	DW	SW

RELINQUISHED BY: (Signature) (b) (6) DATE 12/09/21 TIME 4:00 AM PM RECEIVED BY: (Signature) (b) (6) DATE 12-10-2021 TIME 09:15 AM

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

LAB COMMENTS: *No time listed on bottles now calculated*

RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature) DATE TIME

RELINQUISHED BY: (Signature) DATE TIME RECEIVED FOR LABORATORY BY: (b) (6) DATE 12-10-2021 TIME 09:15 AM

CONDITIONS UPON RECEIPT (check one):
 Iced/Wet/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%	IV* = Immediate Verbal: (3 working days) 100%
RV* = Rush Verbal: (5 working days) 50%	IW* = Immediate Written: (3 working days) 125%
RW* = Rush Written: (5 working days) 75%	SP* = Weekend, Holiday CALL
	STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

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

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



Eaton Analytical

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

Order # _433311____
Batch # _____

www.EurofinsUS.com/Eaton

CHAIN OF CUSTODY RECORD

Page 2 of 2

REPORT TO: Shaded area for EEA use only				SAMPLER (Signature) (b) (6)		PWS ID # N/A	STATE (sample origin) MO	PROJECT NAME GFC	PO# 121244	# OF CONTAINERS 1	MATRIX CODE DW	TURNAROUND TIME SW
BILL TO: Shaded area for EEA use only				COMPLIANCE MONITORING Yes No X		POPULATION SERVED N/A	SOURCE WATER Municipal					
Same												
LAB Number	COLLECTION				SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED		# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
	DATE	TIME	AM	PM				YES	NO			
1	12/08/21	1009	X		105-DW-37R-C	Lead & Copper		X		1	DW	SW
2	12/08/21	1015	X		105-DW-37R-D	Lead & Copper		X		1	DW	SW
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature) (b) (6)	DATE 12/09/21	TIME 4:00 AM PM	RECEIVED BY:(Signature)	DATE	TIME	LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS <i>No time listed on bottles ppw/12/10/21</i>
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM	
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: (b) (6)	DATE 12-10-2021	TIME 0915 AM PM	
CONDITIONS UPON RECEIPT (check one): Iced: Wet/Blue <input checked="" type="checkbox"/> Ambient <input type="checkbox"/> °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 SW = Standard Written: (15 working days) 0% RV* = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75%		* Please call, expedited service not available for all testing		IV* = Immediate Verbal: (3 working days) 100% IW* = Immediate Written: (3 working days) 125% SP* = Weekend, Holiday CALL STAT* = Less than 48 hours CALL

Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 810-9698-1

Login Number: 9698

List Source: Eurofins Eaton Analytical - South Bend

List Number: 1

Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	