



September 26, 2024
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. 106 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 106 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.

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. 106 was conducted on September 5, 2024 by 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.

Drinking water sampling for the presence of lead and copper was conducted at two (2) distinct locations within Building 106. A total of three (3) 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

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readings for pH (the acidity or basicity of an aqueous solution) and the temperature (in degrees Celsius) on site specific sample logs.

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

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

RESULTS AND DISCUSSION

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

Analysis	Lowest Concentration ^(a)	Highest Concentration ^(a)	Action Level ^(b)
Lead	<0.50 µg/L	0.54 µg/L	15 µg/L
Copper	4.1 µg/L	69 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).

(c) µg/L – micrograms per liter

No samples resulted in levels over the action levels, 15 µg/L for lead and 1,300 µg/L for copper.

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.

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 106 ranged from 10.40 to 10.40 indicating the drinking water is slightly alkaline.



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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)

A large black rectangular redaction box covers the signature area, with the text '(b) (6)' written in red at the top left corner of the box.

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

Sample Number	Location	pH	Temp (°C)	Water Source	Analyte	Result	Units	Above / Below	AL
106-DF-01	Hallway DF*	10.4	15.1	DF	Copper	69	µg/L	Below	1300
106-DF-01	Hallway DF*	10.4	15.1	DF	Lead	0.54	µg/L	Below	15
106-SK-02	Sink in north restroom*	10.4	22.7	Sink	Copper	4.1	µg/L	Below	1300
106-SK-02	Sink in north restroom*	10.4	22.7	Sink	Lead	< 0.50	µg/L	Below	15
106-SK-03	Duplicate of 106-SK-02*	10.4	22.7	Sink D	Copper	4.2	µg/L	Below	1300
106-SK-03	Duplicate of 106-SK-02*	10.4	22.7	Sink D	Lead	< 0.50	µg/L	Below	15

Notes:

* - Not first draw

DF - Drinking Fountain

D - Duplicate

AL - Action Level

SK - Sink

µg/L - micrograms per liter

APPENDIX B – WATER SAMPLE LABORATORY REPORT

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Matt Shanahan
Burns & McDonnell
425 South Woods Mill Road
Suite 300
Chesterfield, Missouri 63017

Generated 9/13/2024 9:44:17 AM

JOB DESCRIPTION

Burns & McDonnell

JOB NUMBER

810-119269-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization

(b) (6)

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9/13/2024 9:44:17 AM

Authorized for release by
Amanda Scott, Project Manager
Amanda.Scott@et.eurofinsus.com
(574)233-4777



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Definitions/Glossary

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

Job ID: 810-119269-1

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: Burns & McDonnell

Job ID: 810-119269-1

Job ID: 810-119269-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-119269-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/9/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Metals

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

Client Sample Results

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

Job ID: 810-119269-1

Client Sample ID: 107-DF-01

Date Collected: 09/05/24 06:10

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-1

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:17	1
Copper	41		1.0	ug/L			09/11/24 18:17	1

Client Sample ID: 107-SK-02

Date Collected: 09/05/24 06:15

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-2

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:20	1
Copper	68		1.0	ug/L			09/11/24 18:20	1

Client Sample ID: 107-SK-03

Date Collected: 09/05/24 06:15

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-3

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:22	1
Copper	53		1.0	ug/L			09/11/24 18:22	1

Client Sample ID: 107-SK-04

Date Collected: 09/05/24 06:20

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-4

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:30	1
Copper	21		1.0	ug/L			09/11/24 18:30	1

Client Sample ID: 110-SK-01

Date Collected: 09/05/24 06:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-5

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:33	1
Copper	90		1.0	ug/L			09/11/24 18:33	1

Client Sample ID: 110-SK-02

Date Collected: 09/05/24 06:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-6

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:41	1
Copper	86		1.0	ug/L			09/11/24 18:41	1

Client Sample Results

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

Job ID: 810-119269-1

Client Sample ID: 110-SK-03

Date Collected: 09/05/24 06:40

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-7

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:44	1
Copper	86		1.0	ug/L			09/11/24 18:44	1

Client Sample ID: 105L-DF-01

Date Collected: 09/05/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-8

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.72		0.50	ug/L			09/11/24 18:47	1
Copper	26		1.0	ug/L			09/11/24 18:47	1

Client Sample ID: 105L-DF-02

Date Collected: 09/05/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-9

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.65		0.50	ug/L			09/11/24 18:50	1
Copper	25		1.0	ug/L			09/11/24 18:50	1

Client Sample ID: 105L-SK-03

Date Collected: 09/05/24 07:02

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-10

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.72		0.50	ug/L			09/11/24 18:52	1
Copper	28		1.0	ug/L			09/11/24 18:52	1

Client Sample ID: 106-DF-01

Date Collected: 09/05/24 10:30

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-11

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.54		0.50	ug/L			09/11/24 18:55	1
Copper	69		1.0	ug/L			09/11/24 18:55	1

Client Sample ID: 106--SK-02

Date Collected: 09/05/24 10:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-12

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 18:58	1
Copper	4.1		1.0	ug/L			09/11/24 18:58	1

Client Sample Results

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

Job ID: 810-119269-1

Client Sample ID: 106-SK-03

Lab Sample ID: 810-119269-13

Date Collected: 09/05/24 10:32

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:01	1
Copper	4.2		1.0	ug/L			09/11/24 19:01	1

Client Sample ID: 105-DF-01

Lab Sample ID: 810-119269-14

Date Collected: 09/06/24 06:10

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:14	1
Copper	13		1.0	ug/L			09/11/24 19:14	1

Client Sample ID: 105-DF-02

Lab Sample ID: 810-119269-15

Date Collected: 09/06/24 06:11

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.90		0.50	ug/L			09/11/24 19:17	1
Copper	37		1.0	ug/L			09/11/24 19:17	1

Client Sample ID: 105-SK-03

Lab Sample ID: 810-119269-16

Date Collected: 09/06/24 06:20

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:20	1
Copper	63		1.0	ug/L			09/11/24 19:20	1

Client Sample ID: 105-DF-04

Lab Sample ID: 810-119269-17

Date Collected: 09/06/24 06:28

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:28	1
Copper	84		1.0	ug/L			09/11/24 19:28	1

Client Sample ID: 105-DF-05

Lab Sample ID: 810-119269-18

Date Collected: 09/06/24 06:28

Matrix: Drinking Water

Date Received: 09/09/24 10:00

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:31	1
Copper	43		1.0	ug/L			09/11/24 19:31	1

Client Sample Results

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

Job ID: 810-119269-1

Client Sample ID: 105-DF-06

Date Collected: 09/06/24 06:28

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-19

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:33	1
Copper	39		1.0	ug/L			09/11/24 19:33	1

Client Sample ID: 105-SK-07

Date Collected: 09/06/24 06:33

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-20

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.1		0.50	ug/L			09/11/24 19:36	1
Copper	16		1.0	ug/L			09/11/24 19:36	1

Client Sample ID: 105-SK-08

Date Collected: 09/06/24 06:34

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-21

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:39	1
Copper	16		1.0	ug/L			09/11/24 19:39	1

Client Sample ID: 105-SK-09

Date Collected: 09/06/24 06:38

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-22

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:42	1
Copper	11		1.0	ug/L			09/11/24 19:42	1

Client Sample ID: 105-DF-10

Date Collected: 09/06/24 06:44

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-23

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.2		0.50	ug/L			09/11/24 19:44	1
Copper	65		1.0	ug/L			09/11/24 19:44	1

Client Sample ID: 105-DF-11

Date Collected: 09/06/24 06:45

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-24

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3		0.50	ug/L			09/11/24 19:53	1
Copper	49		1.0	ug/L			09/11/24 19:53	1

Client Sample Results

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

Job ID: 810-119269-1

Client Sample ID: 105-SK-12

Date Collected: 09/06/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-25

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:55	1
Copper	46		1.0	ug/L			09/11/24 19:55	1

Client Sample ID: 105-SK-13

Date Collected: 09/06/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-26

Matrix: Drinking Water

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			09/11/24 19:58	1
Copper	42		1.0	ug/L			09/11/24 19:58	1

Lab Chronicle

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

Job ID: 810-119269-1

Client Sample ID: 107-DF-01

Date Collected: 09/05/24 06:10

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:17

Client Sample ID: 107-SK-02

Date Collected: 09/05/24 06:15

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:20

Client Sample ID: 107-SK-03

Date Collected: 09/05/24 06:15

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:22

Client Sample ID: 107-SK-04

Date Collected: 09/05/24 06:20

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:30

Client Sample ID: 110-SK-01

Date Collected: 09/05/24 06:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-5

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:33

Client Sample ID: 110-SK-02

Date Collected: 09/05/24 06:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-6

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:41

Client Sample ID: 110-SK-03

Date Collected: 09/05/24 06:40

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-7

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:44

Lab Chronicle

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

Job ID: 810-119269-1

Client Sample ID: 105L-DF-01

Date Collected: 09/05/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-8

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:47

Client Sample ID: 105L-DF-02

Date Collected: 09/05/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-9

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:50

Client Sample ID: 105L-SK-03

Date Collected: 09/05/24 07:02

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-10

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:52

Client Sample ID: 106-DF-01

Date Collected: 09/05/24 10:30

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-11

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:55

Client Sample ID: 106--SK-02

Date Collected: 09/05/24 10:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-12

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 18:58

Client Sample ID: 106-SK-03

Date Collected: 09/05/24 10:32

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-13

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:01

Client Sample ID: 105-DF-01

Date Collected: 09/06/24 06:10

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-14

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:14

Lab Chronicle

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

Job ID: 810-119269-1

Client Sample ID: 105-DF-02

Date Collected: 09/06/24 06:11

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-15

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:17

Client Sample ID: 105-SK-03

Date Collected: 09/06/24 06:20

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-16

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:20

Client Sample ID: 105-DF-04

Date Collected: 09/06/24 06:28

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-17

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:28

Client Sample ID: 105-DF-05

Date Collected: 09/06/24 06:28

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-18

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:31

Client Sample ID: 105-DF-06

Date Collected: 09/06/24 06:28

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-19

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:33

Client Sample ID: 105-SK-07

Date Collected: 09/06/24 06:33

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-20

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:36

Client Sample ID: 105-SK-08

Date Collected: 09/06/24 06:34

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-21

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:39

Lab Chronicle

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

Job ID: 810-119269-1

Client Sample ID: 105-SK-09

Date Collected: 09/06/24 06:38

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-22

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:42

Client Sample ID: 105-DF-10

Date Collected: 09/06/24 06:44

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-23

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:44

Client Sample ID: 105-DF-11

Date Collected: 09/06/24 06:45

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-24

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:53

Client Sample ID: 105-SK-12

Date Collected: 09/06/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-25

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:55

Client Sample ID: 105-SK-13

Date Collected: 09/06/24 06:55

Date Received: 09/09/24 10:00

Lab Sample ID: 810-119269-26

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	200.8		1	114419	CA	EA SB	09/11/24 19:58

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

Job ID: 810-119269-1

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	09-30-27

- 1
- 2
- 3
- 4
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- 8
- 9
- 10
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Method Summary

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

Job ID: 810-119269-1

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

Job ID: 810-119269-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-119269-1	107-DF-01	Drinking Water	09/05/24 06:10	09/09/24 10:00
810-119269-2	107-SK-02	Drinking Water	09/05/24 06:15	09/09/24 10:00
810-119269-3	107-SK-03	Drinking Water	09/05/24 06:15	09/09/24 10:00
810-119269-4	107-SK-04	Drinking Water	09/05/24 06:20	09/09/24 10:00
810-119269-5	110-SK-01	Drinking Water	09/05/24 06:32	09/09/24 10:00
810-119269-6	110-SK-02	Drinking Water	09/05/24 06:32	09/09/24 10:00
810-119269-7	110-SK-03	Drinking Water	09/05/24 06:40	09/09/24 10:00
810-119269-8	105L-DF-01	Drinking Water	09/05/24 06:55	09/09/24 10:00
810-119269-9	105L-DF-02	Drinking Water	09/05/24 06:55	09/09/24 10:00
810-119269-10	105L-SK-03	Drinking Water	09/05/24 07:02	09/09/24 10:00
810-119269-11	106-DF-01	Drinking Water	09/05/24 10:30	09/09/24 10:00
810-119269-12	106--SK-02	Drinking Water	09/05/24 10:32	09/09/24 10:00
810-119269-13	106-SK-03	Drinking Water	09/05/24 10:32	09/09/24 10:00
810-119269-14	105-DF-01	Drinking Water	09/06/24 06:10	09/09/24 10:00
810-119269-15	105-DF-02	Drinking Water	09/06/24 06:11	09/09/24 10:00
810-119269-16	105-SK-03	Drinking Water	09/06/24 06:20	09/09/24 10:00
810-119269-17	105-DF-04	Drinking Water	09/06/24 06:28	09/09/24 10:00
810-119269-18	105-DF-05	Drinking Water	09/06/24 06:28	09/09/24 10:00
810-119269-19	105-DF-06	Drinking Water	09/06/24 06:28	09/09/24 10:00
810-119269-20	105-SK-07	Drinking Water	09/06/24 06:33	09/09/24 10:00
810-119269-21	105-SK-08	Drinking Water	09/06/24 06:34	09/09/24 10:00
810-119269-22	105-SK-09	Drinking Water	09/06/24 06:38	09/09/24 10:00
810-119269-23	105-DF-10	Drinking Water	09/06/24 06:44	09/09/24 10:00
810-119269-24	105-DF-11	Drinking Water	09/06/24 06:45	09/09/24 10:00
810-119269-25	105-SK-12	Drinking Water	09/06/24 06:55	09/09/24 10:00
810-119269-26	105-SK-13	Drinking Water	09/06/24 06:55	09/09/24 10:00



Eaton Analytical

810-119269 COC



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

Order #
Batch #

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CHAIN OF CUSTODY RECORD

Page 1 of 2

REPORT TO: *edpulis@brianswald.com*

SAMPLER (Signature)

PWS ID #

STATE (sample origin)

PROJECT NAME

PO#

OF CONTAINERS

MATRIX CODE

4400 Ward Parkway
Kansas City, MO 64114
BILL TO: *same*

COMPLIANCE MONITORING

POPULATION SERVED

SOURCE WATER

SAMPLE REMARKS

CHLORINATED

TURNAROUND TIME

LAB Number

COLLECTION

SAMPLING SITE

TEST NAME

SAMPLE REMARKS

CHLORINATED

TURNAROUND TIME

LAB Number	DATE		RECEIVED BY (Signature)	DATE	TIME		RECEIVED FOR LABORATORY BY	DATE	TIME		LAB COMMENTS
	TIME	AM PM			AM PM	AM PM			AM PM		
1	9-5-24	610	<i>[Signature]</i>	9/9/24	1000						
2	615	107-SK-02									
3	615	107-SK-03									
4	620	107-SK-04									
5	632	110-SK-01									
6	632	110-SK-02									
7	640	110-SK-03									
8	655	105L-DF-01									
9	655	105L-DF-02									
10	762	105L-SK-03									
11	1030	106-DF-01									
12	1032	106-SK-02									
13	1032	106-SK-03									
14											

REINQUISHED BY (Signature)

DATE

TIME

DATE

TIME

LAB COMMENTS

REINQUISHED BY (Signature)

DATE

TIME

DATE

TIME

LAB COMMENTS

REINQUISHED BY (Signature)

DATE

TIME

DATE

TIME

LAB COMMENTS

REINQUISHED BY (Signature)

DATE

TIME

DATE

TIME

LAB COMMENTS

MATRIX CODES:

DW-DRINKING WATER
 RW-REAGENT WATER
 GW-GROUND WATER
 FW-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 Verbal (3 working days) 50%
 FW = Rush Written (3 working days) 75%
 PW = Immediate Verbal (3 working days) 100%
 GW = Immediate Written (3 working days) 125%
 SP = Weekend, Holiday
 STAT = Less than 48 hours

CONDITIONS UPON RECEIPT (check one):

Ice/Wet/Blue Ambient *C Upon Receipt N/A

LAB COMMENTS:

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

Ambient

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

06-LO-F0A35 Issue 6.0 Effective Date: 2016-09-20

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- 11



Eaton Analytical

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

Order # _____
Batch # _____

www.eurofinsus.com/Eaton

CHAIN OF CUSTODY RECORD

Page 2 of 2

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REPORT TO edp@eaton.com

SAMPLER (Signature)

PWS ID #

STATE (sample origin)

PROJECT NAME

PO#

OF CONTAINERS

4700 Ward Parkway
Kansas City, MO 64114

COMPLIANCE MONITORING

POPULATION SERVED

SOURCE WATER

6FL

121214

MATRIX CODE

BILL TO Same

Yes No

N/A

Municipal

6FL

121214

TURNAROUND TIME

LAB Number

COLLECTION DATE TIME AM/PM

SAMPLING SITE

TEST NAME

SAMPLE REMARKS

CHLORINATED

YES NO

9-6-24 610 9

105-DF-01

Lead + Copper

X

NO

SW

1011 1

105-DF-02

Lead + Copper

X

NO

SW

1020 1

105-SK-03

Lead + Copper

X

NO

SW

1028 1

105-DF-04

Lead + Copper

X

NO

SW

1028 1

105-DF-05

Lead + Copper

X

NO

SW

1028 1

105-DF-06

Lead + Copper

X

NO

SW

1033 1

105-SE-07

Lead + Copper

X

NO

SW

1034 1

105-SK-08

Lead + Copper

X

NO

SW

1038 1

105-SK-09

Lead + Copper

X

NO

SW

1044 1

105-DF-10

Lead + Copper

X

NO

SW

1045 1

105-DF-11

Lead + Copper

X

NO

SW

1055 1

105-SK-12

Lead + Copper

X

NO

SW

1055 1

105-SK-13

Lead + Copper

X

NO

SW

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

LAB COMMENTS

Ambient

CONDITIONS UPON RECEIPT (check one):

Iced Well/Blue Ambient °C Upon Receipt N/A

MATRIX CODES:

OW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
FW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

SW = Standard Written (15 working days) 0%
RW = Rush Written (5 working days) 50%
FW = 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

* 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

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

Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 810-119269-1

Login Number: 119269

List Number: 1

Creator: Moffitt, Heather

List Source: Eurofins Eaton Analytical South Bend

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.	False	Refer to Job Narrative for details.
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	