

April 8, 2022 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 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 104 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. 104 was conducted on March 21, 2022 by Ashley Anstaett of Burns & McDonnell.

#### METHODOLOGY

The sampling methodology used during this investigation was developed in general accordance with the United States Environmental Protection Agency's (EPA) "Quick Guide to Drinking Water Sample Collection – Second Edition" developed by the EPA Region 8 in September 2016.

Samples were collected as first draw samples in accordance with the Lead and Copper Rule (40 CFR Part 141 Subpart I). First draw samples represent 'worst case' conditions with water that has been stationary within the plumbing systems for a minimum of six hours. The samples were collected in individually labeled 1000 milliliter (mL) plastic bottles capped with Teflon septa lined screw caps. The bottles were filled to the shoulder with water from the sample source. The samples were then placed in a cooler for safe transport. Each sample was acidified at the laboratory as needed.



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Drinking water sampling for the presence of lead and copper was conducted at nine (9) distinct locations within Building 104. A total of ten (10) 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 EcoTestr pH and temperature meter into the sample cup. After readings stabilized, Burns & McDonnell recorded the readings for pH (the acidity or basicity of an aqueous solution) and the temperature (in degrees Celsius) on site specific sample logs.

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

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

#### **RESULTS AND DISCUSSION**

Analysis	Lowest Concentration <sup>(a)</sup>	Highest Concentration <sup>(a)</sup>	Action Level <sup>(b)</sup>
Lead	<0.5 µg/L	0.5 μg/L	15 μg/L
Copper	29 µg/L	110 µg/L	1300 µg/L

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

Notes:

(a) Samples with a "<" sign indicate that the results were below the reportable limit.

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

(c)  $\mu g/L$  – micrograms per liter

No samples resulted in lead or copper concentrations over the action levels.

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.

#### pН

Normal pH levels for drinking water are between 6.0 to 8.5. Water with a pH < 6.5 is considered acidic, soft, and corrosive. Acidic water may contain metal ions, may cause premature damage to metal piping, and increases the likelihood of leaching. Water with a pH > 8.5 is considered alkaline or basic and can indicate that the water is hard. Hard water does not pose a health risk



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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 9.90 to 10.30 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.

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,



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	рН	Temp (°C)	Water Source	Analyte		Result	Units	Above / Below	AL
104-DW-01	2nd floor, break room, column D43	10.0	20.6	Sink	Copper		110	μg/L	Below	1300
104-DW-01	2nd floor, break room, column D43	10.0	20.6	Sink	Lead	<	0.50	μg/L	Below	15
104-DW-02	Duplicate of 104-DW-01	10.0	20.6	Sink D	Copper		110	μg/L	Below	1300
104-DW-02	Duplicate of 104-DW-01	10.0	20.6	Sink D	Lead	<	0.50	μg/L	Below	15
104-DW-03	2nd floor, between columns B41 & B45	9.9	16.5	DF	Copper		29	μg/L	Below	1300
104-DW-03	2nd floor, between columns B41 & B45	9.9	16.5	DF	Lead	<	0.50	μg/L	Below	15
104-DW-04	2nd floor, break room, column B19	9.9	19.2	DF	Copper		62	μg/L	Below	1300
104-DW-04	2nd floor, break room, column B19	9.9	19.2	DF	Lead	<	0.50	μg/L	Below	15
104-DW-05	2nd floor, break room, column B19	9.9	20.8	Sink	Copper		42	μg/L	Below	1300
104-DW-05	2nd floor, break room, column B19	9.9	20.8	Sink	Lead	<	0.50	μg/L	Below	15
104-DW-06	2nd floor, Limestone Lounge, column C44	10.0	20.6	Sink	Copper		97	μg/L	Below	1300
104-DW-06	2nd floor, Limestone Lounge, column C44	10.0	20.6	Sink	Lead	<	0.50	μg/L	Below	15
104-DW-07	2nd floor, break room, column F50	9.9	20.8	Sink	Copper		98	μg/L	Below	1300
104-DW-07	2nd floor, break room, column F50	9.9	20.8	Sink	Lead	<	0.50	μg/L	Below	15
104-DW-08	2nd floor, Hidden Valley, column B31	10.1	21.3	Sink	Copper		46	μg/L	Below	1300
104-DW-08	2nd floor, Hidden Valley, column B31	10.1	21.3	Sink	Lead		0.52	μg/L	Below	15
104-DW-09	2nd floor, column B31	10.2	16.9	L DF	Copper		110	μg/L	Below	1300
104-DW-09	2nd floor, column B31	10.2	16.9	L DF	Lead	<	0.50	μg/L	Below	15
104-DW-10	2nd floor, near northern restrooms	10.3	16.7	DF	Copper		65	μg/L	Below	1300
104-DW-10	2nd floor, near northern restrooms	10.3	16.7	DF	Lead	<	0.50	μg/L	Below	15

#### Notes:

DF - Drinking Fountain

D - Duplicate

L/R - Left or Right

AL - Action Level

µg/L - micrograms per liter

**APPENDIX B – WATER SAMPLE LABORATORY REPORT** 

# 🔅 eurofins

## **Environment Testing** America

### **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 810-18589-1

Client Project/Site: Burns & McDonnell

#### For:

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

Attn: Mr. Matt Shanahan

Authorized for release by: 3/27/2022 9:49:05 PM

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

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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LINKS **Review your project** results through Total Access **Have a Question?** Ask-The Expert Visit us at:

www.eurofinsus.com/Env

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

Job ID: 810-18589-1

Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	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	

#### **Client Sample Results**

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

Date Collected: 03/21/22 05:07

Date Received: 03/22/22 13:15

Client Sample ID: 104-DW-01

Method: 200.8 - Metals (ICP/MS)

Matrix: Drinking Water

Lab Sample ID: 810-18589-1

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Method: 200.8 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	< 0.50		0.50	ug/L			03/25/22 11:18	1
Copper	110		1.0	ug/L			03/25/22 11:18	1
Client Sample ID: 104-DW-02						Lab San	ple ID: 810-1	8589-2
Date Collected: 03/21/22 05:07							Matrix: Drinkin	g Water
Date Received: 03/22/22 13:15								
Method: 200.8 - Metals (ICP/MS)					_			
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50 1.0	ug/L			03/25/22 11:20 03/25/22 11:20	1
Copper	110		1.0	ug/L				
Client Sample ID: 104-DW-03						Lab San	ple ID: 810-1	
Date Collected: 03/21/22 05:17 Date Received: 03/22/22 13:15							Matrix: Drinkin	g Water
Method: 200.8 - Metals (ICP/MS)								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			03/25/22 11:22	1
Copper	29		1.0	ug/L			03/25/22 11:22	1
Olivert Commiss ID: 404 DM/ 04						Lab San	ple ID: 810-1	8589-4
Client Sample ID: 104-DW-04								
Date Collected: 03/21/22 05:27							Matrix: Drinkin	g Water
							Matrix: Drinkin	g Water
Date Collected: 03/21/22 05:27							Matrix: Drinkin	g Water
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15	Result	Qualifier	RL	Unit	D	Prepared	Matrix: Drinkin	g Water Dil Fac
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS)	<b>Result</b> <0.50	Qualifier	<b>RL</b>	Unit ug/L	<u>D</u>			
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte		Qualifier			<u>D</u>		Analyzed	Dil Fac
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper	<0.50	Qualifier	0.50	ug/L	D	Prepared	Analyzed 03/25/22 11:25 03/25/22 11:25	 
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead	<0.50	Qualifier	0.50	ug/L	<u> </u>	Prepared	Analyzed 03/25/22 11:25 03/25/22 11:25	Dil Fac 1 1 8589-5
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05	<0.50	Qualifier	0.50	ug/L	<u> </u>	Prepared	Analyzed 03/25/22 11:25 03/25/22 11:25	Dil Fac 1 1 8589-5
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15	<0.50	Qualifier	0.50	ug/L	<u> </u>	Prepared	Analyzed 03/25/22 11:25 03/25/22 11:25	Dil Fac 1 1 8589-5
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31	<0.50 62	Qualifier	0.50	ug/L	D	Prepared	Analyzed 03/25/22 11:25 03/25/22 11:25 ople ID: 810-1 Matrix: Drinkin	Dil Fac 1 1 8589-5
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS)	<0.50 62		0.50	ug/L ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25	Dil Fac 1 8589-5 g Water
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte	<0.50 62 Result		0.50 1.0	ug/L ug/L Unit		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 nple ID: 810-1 Matrix: Drinkin Analyzed	Dil Fac
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper	<0.50 62 Result <0.50		0.50 1.0 <b>RL</b> 0.50	ug/L ug/L Unit ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 Dele ID: 810-1 Matrix: Drinkin Analyzed 03/25/22 11:31 03/25/22 11:31	Dil Fac 1 8589-5 g Water Dil Fac 1
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-06	<0.50 62 Result <0.50		0.50 1.0 <b>RL</b> 0.50	ug/L ug/L Unit ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31	Dil Fac 1 8589-5 g Water Dil Fac 1 8589-6
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper	<0.50 62 Result <0.50		0.50 1.0 <b>RL</b> 0.50	ug/L ug/L Unit ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 Dele ID: 810-1 Matrix: Drinkin Analyzed 03/25/22 11:31 03/25/22 11:31	Dil Fac 1 8589-5 g Water Dil Fac 1 8589-6
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-06 Date Collected: 03/21/22 05:39	<0.50 62 Result <0.50		0.50 1.0 <b>RL</b> 0.50	ug/L ug/L Unit ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31	Dil Fac 1 8589-5 g Water Dil Fac 1 8589-6
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-06 Date Collected: 03/21/22 05:39 Date Received: 03/22/22 13:15	<0.50 62 Result <0.50 42		0.50 1.0 <b>RL</b> 0.50	ug/L ug/L Unit ug/L		Prepared Lab San	Analyzed 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:25 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31	Dil Fac 1 8589-5 g Water Dil Fac 1 8589-6
Date Collected: 03/21/22 05:27 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-05 Date Collected: 03/21/22 05:31 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS) Analyte Lead Copper Client Sample ID: 104-DW-06 Date Collected: 03/21/22 05:39 Date Received: 03/22/22 13:15 Method: 200.8 - Metals (ICP/MS)	<0.50 62 Result <0.50 42	Qualifier	0.50 1.0 <b>RL</b> 0.50 1.0	Unit ug/L ug/L ug/L ug/L	D _	Prepared Lab Sam	Analyzed 03/25/22 11:25 03/25/22 11:25 Diple ID: 810-1 Matrix: Drinkin Analyzed 03/25/22 11:31 03/25/22 11:31 03/25/22 11:31 Diple ID: 810-1 Matrix: Drinkin	Dil Fac 1 8589-5 g Water Dil Fac 1 8589-6 g Water

Eurofins Eaton South Bend

#### **Client Sample Results**

Client: Burns & McDonnell Project/Site: Burns & McDonnell Job ID: 810-18589-1

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Client Sample ID: 104-DW-07						Lab San	nple ID: 810-1	8589-7
Date Collected: 03/21/22 05:43							Matrix: Drinkin	g Water
Date Received: 03/22/22 13:15								
Method: 200.8 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			03/25/22 11:36	1
Copper	<mark>9</mark> 8		1.0	ug/L			03/25/22 11:36	1
Client Sample ID: 104-DW-08						Lab San	nple ID: 810-1	8589-8
Date Collected: 03/21/22 05:50							Matrix: Drinkin	g Water
Date Received: 03/22/22 13:15								•
Method: 200.8 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.52		0.50	ug/L			03/25/22 11:38	1
Copper	46		1.0	ug/L			03/25/22 11:38	1
Client Sample ID: 104 DW/ 09						Lob Son	ania ID: 910 1	0500 0
Client Sample ID: 104-DW-09						Lab San	nple ID: 810-1	
Date Collected: 03/21/22 05:56							Matrix: Drinkin	g Water
Date Received: 03/22/22 13:15								
Method: 200.8 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L		-	03/25/22 11:41	1
Copper	110		1.0	ug/L			03/25/22 11:41	1
Client Sample ID: 104-DW-10						Lab Sam	ple ID: 810-18	589-10
Date Collected: 03/21/22 16:05							Matrix: Drinkin	
Date Received: 03/22/22 13:15								
Method: 200.8 - Metals (ICP/MS)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.50		0.50	ug/L			03/25/22 11:43	1
Copper	65		1.0	ug/L			03/25/22 11:43	1

Job ID: 810-18589-1

Date Collected	le ID: 104-D						La	ab Sample ID: 810-18589- Matrix: Drinking Wate
	: 03/22/22 13:1							Matrix. Drinking Wate
_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 11:18	JK	EA SB
Client Samp	le ID: 104-D	W-02					La	ab Sample ID: 810-18589-
Date Collected	: 03/21/22 05:0	7						Matrix: Drinking Wate
Date Received	: 03/22/22 13:1	5						
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 11:20	JK	EASB
lient Samp	le ID: 104-D	W-03					La	ab Sample ID: 810-18589-
Date Collected	: 03/21/22 05:1	7						Matrix: Drinking Wate
Date Received	: 03/22/22 13:1	5						
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 11:22	JK	EA SB
lient Samp	le ID: 104-D	W-04					La	ab Sample ID: 810-18589-
Date Collected	: 03/21/22 05:2	7						Matrix: Drinking Wate
Date Received	: 03/22/22 13:1	5						
_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	200.8		1	15601	03/25/22 11:25	JK	EA SB
Client Samp	le ID: 104-D	W-05					La	ab Sample ID: 810-18589-
	le ID: 104-D : 03/21/22 05:3						La	ab Sample ID: 810-18589- Matrix: Drinking Wate
Date Collected		1					La	· · · · · · · · · · · · · · · · · · ·
Date Collected	: 03/21/22 05:3	1		Dilution	Batch	Prepared	La	· · · · · · · · · · · · · · · · · · ·
Date Collected	: 03/21/22 05:3 : 03/22/22 13:1	1 5	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	· · · · · · · · · · · · · · · · · · ·
Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch	1 5 Batch	Run			•		Matrix: Drinking Wate
Prep Type Total/NA	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type	1 5 Batch <u>Method</u> 200.8	Run	Factor	Number	or Analyzed	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp	: 03/21/22 05:3 : 03/22/22 13:1 Batch <u>Type</u> Analysis	1 5 Batch <u>Method</u> 200.8 W-06	Run	Factor	Number	or Analyzed	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch <u>Type</u> Analysis Ie ID: 104-DV	1 5 Batch <u>Method</u> 200.8 W-06 9	Run	Factor	Number	or Analyzed	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-D : 03/21/22 05:3	1 5 Batch <u>Method</u> 200.8 W-06 9	<u>Run</u>	Factor	Number	or Analyzed	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch <u>Type</u> Analysis le ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1	1 5 Batch <u>Method</u> 200.8 W-06 9 5	Run	Factor1	Number 15601	or Analyzed 03/25/22 11:31	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch	1 5 Batch 200.8 W-06 9 5 Batch		- Factor1	Number 15601 Batch	or Analyzed 03/25/22 11:31 Prepared	Analyst JK	Matrix: Drinking Wate
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received Prep Type Total/NA	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis Ie ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch Type	1 5 Batch 200.8 W-06 9 5 Batch Method 200.8		Factor       1       Dilution       Factor	Number 15601 Batch Number	or Analyzed 03/25/22 11:31 Prepared or Analyzed	Analyst JK La Analyst JK	Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589- Matrix: Drinking Wate - Lab EA SB
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received Prep Type Total/NA Client Samp	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis	1 5 Batch 200.8 W-06 9 5 Batch <u>Method</u> 200.8 W-07		Factor       1       Dilution       Factor	Number 15601 Batch Number	or Analyzed 03/25/22 11:31 Prepared or Analyzed	Analyst JK La Analyst JK	Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589- Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589-
Prep Type Total/NA Client Samp Date Collected Date Received Total/NA Client Samp Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis Ie ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis Ie ID: 104-DV	1 5 Batch 200.8 W-06 9 5 Batch <u>Method</u> 200.8 W-07 3		Factor       1       Dilution       Factor	Number 15601 Batch Number	or Analyzed 03/25/22 11:31 Prepared or Analyzed	Analyst JK La Analyst JK	Matrix: Drinking Wate Lab EA SB ab Sample ID: 810-18589- Matrix: Drinking Wate Lab
Date Collected Date Received Total/NA Client Samp Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:4	1 5 Batch 200.8 W-06 9 5 Batch <u>Method</u> 200.8 W-07 3		Factor       1       Dilution       Factor	Number 15601 Batch Number	or Analyzed 03/25/22 11:31 Prepared or Analyzed	Analyst JK La Analyst JK	Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589- Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589-
Date Collected Date Received Prep Type Total/NA Client Samp Date Collected Date Received Prep Type Total/NA Client Samp Date Collected	: 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:3 : 03/22/22 13:1 Batch Type Analysis le ID: 104-DV : 03/21/22 05:4 : 03/22/22 13:1	1 5 Batch 200.8 W-06 9 5 Batch <u>Method</u> 200.8 W-07 3 5		Factor       1       Dilution       Factor       1	Number 15601 Batch Number 15601	or Analyzed 03/25/22 11:31 Prepared or Analyzed 03/25/22 11:34	Analyst JK La Analyst JK	Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589- Matrix: Drinking Wate - Lab EA SB ab Sample ID: 810-18589-

Eurofins Eaton South Bend

Lab Sample ID: 810-18589-8

#### Client Sample ID: 104-DW-08

Date Received	: 03/22/22 13:1	5							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	ł
Total/NA	Analysis	200.8		1	15601	03/25/22 11:38	JK	EASB	
Client Samp	le ID: 104-D	N-09					La	ab Sample ID: 810-18589-9	
Date Collected	: 03/21/22 05:5	6						Matrix: Drinking Water	
Date Received	: 03/22/22 13:1	5							
_	Batch	Batch		Dilution	Batch	Prepared			8
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	200.8		1	15601	03/25/22 11:41	JK	EASB	9
Client Samp	le ID: 104-D	W-10					La	b Sample ID: 810-18589-10	
Date Collected	: 03/21/22 16:0	5						Matrix: Drinking Water	
Date Received	: 03/22/22 13:1	5							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	

Laboratory References:

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

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#### Laboratory: Eurofins Eaton South Bend The accreditations/certifications listed below are applicable to this report.

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

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

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

#### Protocol References:

EPA = US Environmental Protection Agency

#### Laboratory References:

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

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### Sample Summary

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

ab Sample ID	Client Sample ID	Matrix	Collected	Received
310-18589-1	104-DW-01	Drinking Water	03/21/22 05:07	03/22/22 13:15
310-18589-2	104-DW-02	Drinking Water	03/21/22 05:07	03/22/22 13:15
310-18589-3	104-DW-03	Drinking Water	03/21/22 05:17	03/22/22 13:15
310-18589-4	104-DW-04	Drinking Water	03/21/22 05:27	03/22/22 13:15
310-18589-5	104-DW-05	Drinking Water	03/21/22 05:31	03/22/22 13:15
310-18589-6	104-DW-06	Drinking Water	03/21/22 05:39	03/22/22 13:15
310-18589-7	104-DW-07	Drinking Water	03/21/22 05:43	03/22/22 13:15
310-18589-8	104-DW-08	Drinking Water	03/21/22 05:50	03/22/22 13:15
310-18589-9	104-DW-09	Drinking Water	03/21/22 05:56	03/22/22 13:15
310-18589-10	104-DW-10	Drinking Water	03/21/22 16:05	03/22/22 13:15

### Cross Offs on COC by Client

810-18589 Chain of Custody				110 S. Hill Street       U2331         South Bend, IN 46617       Order # 13331         T: 1.800.332.4345       F: 1.574.233.8207         Batch #												
Shaded area fo	FFA use only	v		eapu	Icher	- @bu	in	smid.	com		Pag	e	of			
PORT TO: M Lapul	cherp	bu		SAMPLER (Signature)	AAAAA TT	7		PWS ID #	STATE (sample origin)	PROJE	CT NAME	F	PO#		1	
	0			(b) (6)			X	2 Do	MO	GF	1				-	
. то:				COMPLIANCE	Yes	No		JLATION SERVED	SOURCE WATER		C	12	124	RS		TIME
Same				MONITORING						Preservative Checks				NTAINE		L DNNO
LAB Number	CO		AM PM	S/	MPLING SITE			TEST N	IAME	pH accep- table? √	Residual Chlorine (P/A)	CHLO	RINATED	# OF COI	MATRIX CODE	TURNAROUND
	3/21/22	0507	1	104 - DW - 0	(		11	ad + co	Phl		(111)	ĩ		+=	DW	Sw
	1	0507		104- DW-0	2			1						1	Dr	1
		0517		104- DW- (						-				1	DW	-
		0527		101 - DW-04	6						-			1	Phy	+
10		0539		104 - DW - 0 104 - DW - 0	)(0		<u> </u>					$H^{-}$		,	DN	+
		0543		104 - DW - OT									1	1	DW	
		0550		104 - DW-0	8									1	DW	
		0656		104 - DW-0								H		1	DW	
	1	1005		104 - DW -1	0			1					-	-	DW	
													1			
															1.	
			TIME				TIME	ME LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT								
(6)		3/21/22	1030					LAB COMMENTS						1		
IQUISHED BY:(Signature)		DATE	TIME	RECEIVED BY:(Signature)		DATE	AM PM TIME								-	
INQUISHED BY:(Signature) DATE		DATE	AM PM	RECEIVED FOR LABORATO	RY BY:	DATE	AM PM TIME	CONDITIONS UPON RE								
		AM PM	(b) (6)	03-22-	1315 AM [ PM	315 AM L PM										
MATRIX CODES:		TURN-AROU				10000	1		and the second sec							
		50% RW* = Rush	= Standard Written: (15 working days) 4 RW* = Rush Written: (5 working days) 4 RW* = Rush Written: (5 working days) 175% 1828 call, expedited service not available for all testing				IV* = Immediate Verbal: (3 working days) IV*         100%           Immediate Written: (3 working days) SP* =         125%           Weekend, Holdday         CALL           BTAT* =: Least than 45 hours         CALL			Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. 06-LO-F0435 Issue 8.0 Effective Date: 2020-05-15						

EEA.

#### Client: Burns & McDonnell

#### Login Number: 18589 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	

List Source: Eurofins Eaton South Bend