



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. 107 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 107 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. 107 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 three (3) distinct locations within Building 107. A total of four (4) 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 <sup>(a)</sup>	Highest Concentration <sup>(a)</sup>	Action Level <sup>(b)</sup>
Lead	<0.50 µg/L	<0.50 µg/L	15 µg/L
Copper	21 µg/L	68 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 107 ranged from 10.20 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
107-DF-01	Hallway DF (BF)	10.4	18.7	BF	Copper	41	µg/L	Below	1300
107-DF-01	Hallway DF (BF)	10.4	18.7	BF	Lead	< 0.50	µg/L	Below	15
107-SK-02	Office - break room sink	10.4	23.0	Sink	Copper	68	µg/L	Below	1300
107-SK-02	Office - break room sink	10.4	23.0	Sink	Lead	< 0.50	µg/L	Below	15
107-SK-03	Duplicate of 107-SK-02	10.4	23.0	Sink D	Copper	53	µg/L	Below	1300
107-SK-03	Duplicate of 107-SK-02	10.4	23.0	Sink D	Lead	< 0.50	µg/L	Below	15
107-SK-04	Hallway lunch room sink	10.2	23.0	Sink	Copper	21	µg/L	Below	1300
107-SK-04	Hallway lunch room sink	10.2	23.0	Sink	Lead	< 0.50	µg/L	Below	15

Notes:

- DF - Drinking Fountain
- D - Duplicate
- BF - Bottle Filler
- 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)

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

Authorized for release by  
Amanda Scott, Project Manager  
[Amanda.Scott@et.eurofinsus.com](mailto: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**

Date Collected: 09/05/24 10:32

Date Received: 09/09/24 10:00

**Lab Sample ID: 810-119269-13**

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 19:01	1
Copper	4.2		1.0	ug/L			09/11/24 19:01	1

**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

**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**

Date Collected: 09/06/24 06:11

Date Received: 09/09/24 10:00

**Lab Sample ID: 810-119269-15**

Matrix: Drinking Water

**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**

Date Collected: 09/06/24 06:20

Date Received: 09/09/24 10:00

**Lab Sample ID: 810-119269-16**

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 19:20	1
Copper	63		1.0	ug/L			09/11/24 19:20	1

**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

**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**

Date Collected: 09/06/24 06:28

Date Received: 09/09/24 10:00

**Lab Sample ID: 810-119269-18**

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 19:31	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
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Method Summary

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

Job ID: 810-119269-1

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

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**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 #

www.eurofinsus.com/Eaton

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

COMPLIANCE MONITORING

POPULATION SERVED

SOURCE WATER

6FL

121244

PN SW

BILL TO: *same*

Yes

No

N/A

Municipal

LAB Number

DATE

TIME

RECEIVED BY (Signature)

DATE

TIME

TEST NAME

SAMPLE REMARKS

CHLORINATED

TURNAROUND TIME

9-5-24

610

AM

107-DF-01

9/9/24

1000

Lead + Copper

X

1

PN SW

615

615

AM

107-SK-02

1000

Lead + Copper

X

1

PN SW

615

615

AM

107-SK-03

1000

Lead + Copper

X

1

PN SW

620

620

AM

107-SK-04

1000

Lead + Copper

X

1

PN SW

632

632

AM

110-SK-01

1000

Lead + Copper

X

1

PN SW

640

640

AM

110-SK-02

1000

Lead + Copper

X

1

PN SW

655

655

AM

105L-DF-01

1000

Lead + Copper

X

1

PN SW

762

762

AM

105L-DF-02

1000

Lead + Copper

X

1

PN SW

1030

1030

AM

106-DF-01

1000

Lead + Copper

X

1

PN SW

1032

1032

AM

106-SK-02

1000

Lead + Copper

X

1

PN SW

1032

1032

AM

106-SK-03

1000

Lead + Copper

X

1

PN SW

REINQUISHED BY (Signature)

DATE

RECEIVED BY (Signature)

DATE

LAB COMMENTS

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

REINQUISHED BY (Signature)

DATE

RECEIVED BY (Signature)

DATE

LAB COMMENTS

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

REINQUISHED BY (Signature)

DATE

RECEIVED FOR LABORATORY BY:

DATE

LAB COMMENTS

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

REINQUISHED BY (Signature)

DATE

RECEIVED FOR LABORATORY BY:

DATE

LAB COMMENTS

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

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%  
RV = Rush Verbal (3 working days) 50%  
RW = Rush Written (3 working days) 75%

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

Conditions upon receipt (check one):  
Iced/Wet/Blue  
Ambient  
Upon Receipt  
N/A

\* Please call, expedited service not available for all testing





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

Shaded area for EEA use only

REPORT TO ed@eaton.com

SAMPLER (Signature)

PWS ID #

STATE (sample origin)

PROJECT NAME

PO#

# OF CONTAINERS

4400 Ward Parkway  
Kansas City, MO 64114

[Redacted Signature]

MO

6FL

121214

2

BILL TO Same

COMPLIANCE MONITORING

Yes  No

POPULATION SERVED N/A

SOURCE WATER Municipal

SAMPLE REMARKS

CHLORINATED  YES  NO

MATRIX CODE SW

TURNAROUND TIME

LAB Number

COLLECTION DATE

TIME AM | PM

SAMPLING SITE

TEST NAME

SAMPLE REMARKS

CHLORINATED

MATRIX CODE

TURNAROUND TIME

LAB Number	COLLECTION DATE	TIME AM   PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED	MATRIX CODE	TURNAROUND TIME
1	9-6-24	6:10	105-DF-01	Lead + Copper		<input checked="" type="checkbox"/>	SW	
2	10/11	1	105-DF-02			<input checked="" type="checkbox"/>	SW	
3	6:20	1	105-SK-03			<input checked="" type="checkbox"/>	SW	
4	6:28	1	105-DF-04			<input checked="" type="checkbox"/>	SW	
5	6:28	1	105-DF-05			<input checked="" type="checkbox"/>	SW	
6	6:28	1	105-DF-06			<input checked="" type="checkbox"/>	SW	
7	6:33	1	105-SE-07			<input checked="" type="checkbox"/>	SW	
8	6:34	1	105-SK-08			<input checked="" type="checkbox"/>	SW	
9	6:38	1	105-SK-09			<input checked="" type="checkbox"/>	SW	
10	6:44	1	105-DF-10			<input checked="" type="checkbox"/>	SW	
11	6:45	1	105-DF-11			<input checked="" type="checkbox"/>	SW	
12	6:55	1	105-SK-12			<input checked="" type="checkbox"/>	SW	
13	6:55	1	105-SK-13			<input checked="" type="checkbox"/>	SW	
14								

RELINQUISHED BY: (Signature)

DATE

TIME AM | PM

RECEIVED BY: (Signature)

DATE

TIME AM | PM

LAB COMMENTS

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

RELINQUISHED BY: (Signature)

DATE

TIME AM | PM

RECEIVED BY: (Signature)

DATE

TIME AM | PM

LAB COMMENTS

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

RELINQUISHED BY: (Signature)

DATE

TIME AM | PM

RECEIVED FOR LABORATORY BY:

DATE

TIME AM | PM

CONDITIONS UPON RECEIPT (check one):

Ice/Wet/Blue

Ambient

°C Upon Receipt

MATRIX CODES:

DATE

TIME AM | PM

RECEIVED FOR LABORATORY BY:

DATE

TIME AM | PM

CONDITIONS UPON RECEIPT (check one):

Ice/Wet/Blue

Ambient

°C Upon Receipt

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 Verbal (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 CALL

LAB COMMENTS

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

LAB COMMENTS

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

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

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

# 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**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
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	