



**SCI ENGINEERING, INC.**

**EARTH • SCIENCE • SOLUTIONS**

GEOTECHNICAL  
ENVIRONMENTAL  
NATURAL RESOURCES  
CULTURAL RESOURCES  
CONSTRUCTION SERVICES

April 2, 2024

Michael Gegg  
Mehlville School District  
3120 Lemay Ferry Road  
St. Louis, Missouri 63125

RE: Lead in Drinking Water Report  
Bernard Middle School  
1054 Forder Road  
St. Louis, Missouri  
SCI No. 2016-0860.2T

Dear Michael Gegg:

## **INTRODUCTION**

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead in drinking water sampling activities performed on January 2, 2024. The purpose of the sampling activities was to screen for elevated levels of lead in the drinking water at potable water sources throughout the above-referenced structure.

The drinking water survey is intended to satisfy the requirements for the “Get the Lead Out of School Drinking Water Act” (GTLOSDWA), Section 160.077 administered by the Missouri Department of Health and Senior Services. Potable water sources to be tested were identified by the school district prior to SCI’s field activities.

## **LIMITATIONS**

SCI’s sampling activities were limited to locations identified by the school district. If any additional potable water sources need testing, please contact SCI, and we will make arrangements for sampling these fixtures. Potable water sources that were not sampled will need a sign placed near each fixture informing students and faculty it is not to be used as a drinking water source.

During the course of performing the drinking water sampling within the structure, SCI was able to sample all drinking water sources identified by the school district.

## **DRINKING WATER SURVEY**

SCI collected “first draw” samples which consisted of collecting a water sample from each fixture or sample location after it remained stagnant for at least eight hours. Prior to sampling, SCI first mobilized to the site to flush the identified potable water fixtures throughout the structure. Once each fixture was flushed, a sign was placed on the fixture indicating it should not be used. SCI then revisited the site, after a minimum of eight hours, to collect water samples from the fixtures.

SCI collected 34 drinking water samples (BMS-1 through BMS-34) from various water fixtures located throughout the structure and submitted them for analytical testing. The drinking water samples were analyzed for total lead by U.S. EPA Method 200.8. SCI collected a minimum of 250 milliliters of water from each location. Sampled water was containerized in laboratory-provided sample containers and shipped to the lab using standard chain-of-custody procedures. Figures depicting the locations of the sampled water fixtures are enclosed.

The drinking water samples were analyzed for lead in accordance with the GTLOSDWA, Section 160.077, which establishes an action level (AL) of 5 parts per billion (ppb). The drinking water samples which exceeded the AL are identified in Table 1, below. A copy of the analytical test results and chain-of-custody for all samples is enclosed.

**Table 1 – Lead in Drinking Water Results**

Sample Number	Sample Location	Sample Description	Result (ppb)
BMS-5	Kitchen	Double Basin Dishwashing Sink	13.7
BMS-12	Kitchen	Left Handwashing Sink	23.6
BMS-13	Kitchen	Right Handwashing Sink	5.58
BMS-20	FACS Room	Sink 3	9.24

## CONCLUSION AND RECOMMENDATIONS

As can be seen in Table 1, above, four drinking water samples exceeded the AL. SCI recommends any fixture which exceeds the AL be taken out of service until remediated and follow up testing indicates results less than the AL. Alternatively, if a water fixture is determined not to be a potable drinking water source, signage may be installed indicating the purpose and/or restrictions of the fixture.

According to GTLOSDWA, any water fixtures which exceed the AL shall be remediated prior to August 1, 2024, or the first day on which students will be present in the building, whichever is later. Any replacement fixture shall be lead free, as defined in 40 CFR 143.12.

## REPORTING

Within seven business days after receiving this report, the school district shall contact parents and staff via written notification which shall include the following:

- The test results and a summary that explains such results;
- A description of any remedial steps taken;
- A description of general health effects of lead contamination and community specific resources; and
- If there is not enough water to meet the drinking water needs of the students, teachers and staff, bottled water shall be provided.

Additionally, within two weeks of receiving this report, the results and any lead remediation plans must be made available on the school's website.

This report, and subsequent annual testing reports, must be submitted to the Missouri Department of Health and Senior Services, Healthy Drinking Water Unit, PO Box 570, Jefferson City, MO 65102-0570.

### **FUTURE TESTING**

After the fixtures identified in Table 1, above, have been remediated, at least 25 percent of the remediated fixtures must be sampled annually until all remediated sources have been tested. However, SCI recommends all fixtures be tested once they have been remediated. Once all fixtures have been tested and are below the action level, the school shall test the potable drinking water fixtures once every five years.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

### **CONCLUSION AND REPORTING**

As previously mentioned, no drinking water samples exceeded the AL of 5 ppb. Therefore, all tested fixtures are compliant per GTLOSDWA and should be tested every five years.

Within seven business days after receiving this report, the school district shall contact parents and staff via written notification which shall include the following:

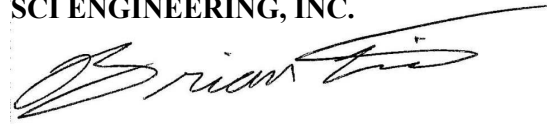
- The test results and a summary that explains such results;
- A description of any remedial steps taken;
- A description of general health effects of lead contamination and community specific resources; and
- If there is not enough water to meet the drinking water needs of the students, teachers, and staff, bottled water shall be provided.

Additionally, within two weeks of receiving this report, the results and any lead remediation plans must be made available on the school's website.

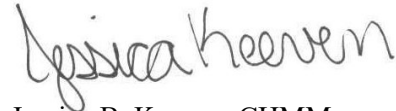
This report, and subsequent annual testing reports, must be submitted to the Missouri Department of Health and Senior Services, Healthy Drinking Water Unit, PO Box 570, Jefferson City, MO 65102-0570.

Respectfully,

**SCI ENGINEERING, INC.**



Brian L. Lieb  
Project Scientist

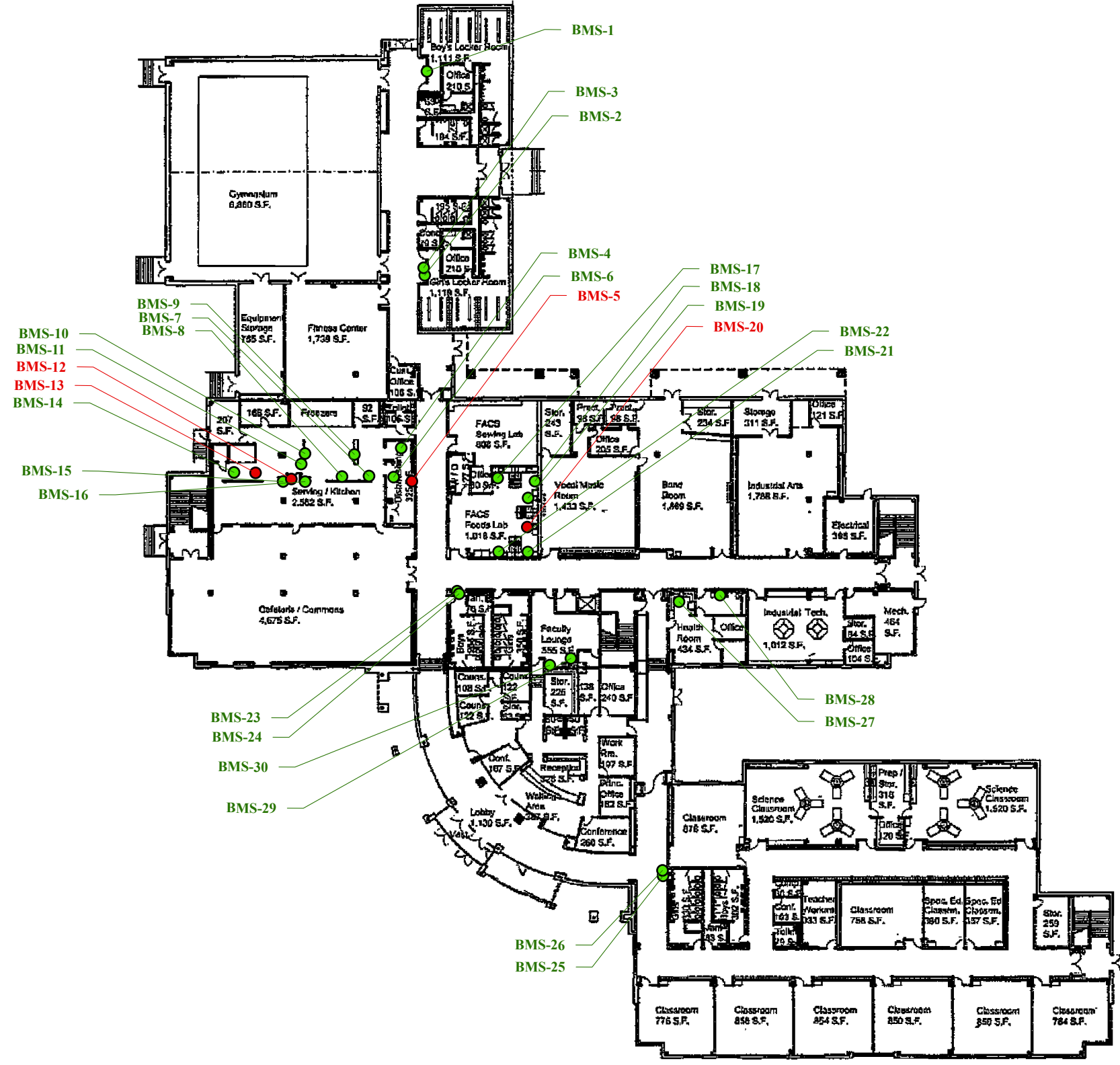


Jessica B. Keeven, CHMM  
Senior Scientist

BLL/JBK/bms

Enclosure

Lead Drinking Water Sampling Plan  
Lead Testing Results



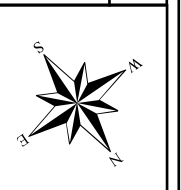
**GENERAL NOTES/LEGEND**

- RESULTS GREATER THAN THE ACTION LEVEL OF 5 PARTS PER BILLION
- RESULTS LESS THAN THE ACTION LEVEL OF 5 PARTS PER BILLION

FLOOR PLANS PROVIDED BY MEHLVILLE SCHOOL DISTRICT. DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

**PROJECT NAME**  
 MEHLVILLE SCHOOL DISTRICT  
 BERNARD MIDDLE SCHOOL - 1ST FLOOR  
 ST. LOUIS, MISSOURI

**LEAD DRINKING WATER SAMPLING PLAN**



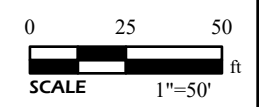
**JOB NUMBER**  
2016-0860.2T

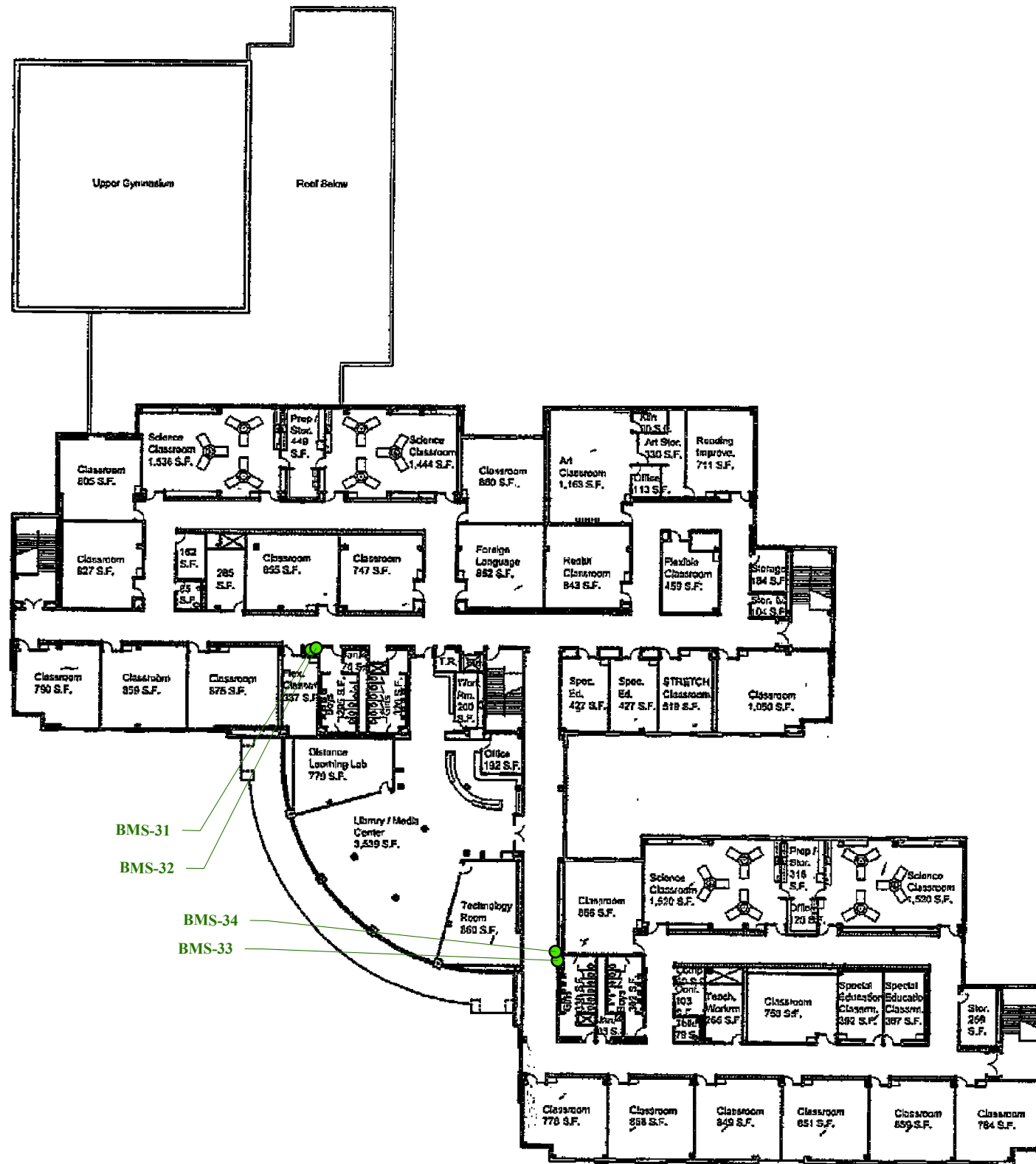
**FIGURE DATE**  
02/21/2024

**DRAWN BY**  
JTM

**CHECKED BY**  
BLL

**FIGURE**  
1





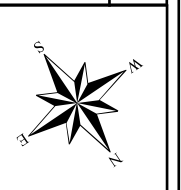
**GENERAL NOTES/LEGEND**

- RESULTS LESS THAN THE ACTION LEVEL OF 5 PARTS PER BILLION

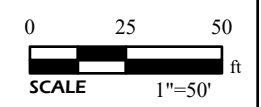
FLOOR PLANS PROVIDED BY MEHLVILLE SCHOOL DISTRICT. DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

**PROJECT NAME**  
 MEHLVILLE SCHOOL DISTRICT  
 BERNARD MIDDLE SCHOOL - 2ND FLOOR  
 ST. LOUIS, MISSOURI

**LEAD DRINKING WATER SAMPLING PLAN**



<b>JOB NUMBER</b>	2016-0860.2T
<b>FIGURE DATE</b>	02/21/2024
<b>DRAWN BY</b>	JTM
<b>CHECKED BY</b>	BLL
<b>FIGURE</b>	2





Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

January 20, 2024

Glenn Grissom  
SCI Engineering  
130 Point W. Blvd.  
St. Chariles, MO 63301

RE: Drinking Water Lead

Dear Glenn Grissom:

Please find enclosed the analytical results for the **34** sample(s) the laboratory received on **1/4/24 4:30 pm** and logged in under work order **HA00539**. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

A handwritten signature in black ink, appearing to read "Chenise Lambert-Sykes".

Chenise Lambert-Sykes  
Project Manager  
(314)432-0550  
[Chenise.Lambert-Sykes@pacelabs.com](mailto:Chenise.Lambert-Sykes@pacelabs.com)



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    HA00539

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided





ANALYTICAL RESULTS

Sample: HA00539-01
Name: BMS-1
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:04
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 13:54, BRS, EPA 200.8 REV 5.4

Sample: HA00539-02
Name: BMS-2
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:05
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 13:55, BRS, EPA 200.8 REV 5.4

Sample: HA00539-03
Name: BMS-3
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:06
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 13:57, BRS, EPA 200.8 REV 5.4

Sample: HA00539-04
Name: BMS-4
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:10
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 3.14, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 13:58, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HA00539-05  
Name: BMS-5  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:10  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	13.7	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:03	BRS	EPA 200.8 REV 5.4

Sample: HA00539-06  
Name: BMS-6  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:12  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	1.72	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:04	BRS	EPA 200.8 REV 5.4

Sample: HA00539-07  
Name: BMS-7  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:16  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:06	BRS	EPA 200.8 REV 5.4

Sample: HA00539-08  
Name: BMS-8  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:17  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	1.66	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:08	BRS	EPA 200.8 REV 5.4



**ANALYTICAL RESULTS**

Sample: HA00539-09  
 Name: BMS-9  
 Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:17  
 Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:09	BRS	EPA 200.8 REV 5.4

Sample: HA00539-10  
 Name: BMS-10  
 Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:20  
 Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	1.63	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:11	BRS	EPA 200.8 REV 5.4

Sample: HA00539-11  
 Name: BMS-11  
 Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:21  
 Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:15	BRS	EPA 200.8 REV 5.4

Sample: HA00539-12  
 Name: BMS-12  
 Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:25  
 Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	23.6	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:17	BRS	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HA00539-13
Name: BMS-13
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:25
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 5.58, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:22, BRS, EPA 200.8 REV 5.4

Sample: HA00539-14
Name: BMS-14
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:25
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.48, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:23, BRS, EPA 200.8 REV 5.4

Sample: HA00539-15
Name: BMS-15
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:29
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.46, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:25, BRS, EPA 200.8 REV 5.4

Sample: HA00539-16
Name: BMS-16
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:32
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 3.41, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:26, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HA00539-17
Name: BMS-17
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:35
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:28, BRS, EPA 200.8 REV 5.4

Sample: HA00539-18
Name: BMS-18
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:35
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:30, BRS, EPA 200.8 REV 5.4

Sample: HA00539-19
Name: BMS-19
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:36
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:31, BRS, EPA 200.8 REV 5.4

Sample: HA00539-20
Name: BMS-20
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:37
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 9.24, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:33, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HA00539-21
Name: BMS-21
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:38
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:40, BRS, EPA 200.8 REV 5.4

Sample: HA00539-22
Name: BMS-22
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:39
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:42, BRS, EPA 200.8 REV 5.4

Sample: HA00539-23
Name: BMS-23
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:41
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:44, BRS, EPA 200.8 REV 5.4

Sample: HA00539-24
Name: BMS-24
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:42
Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:45, BRS, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: HA00539-25  
Name: BMS-25  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:44

Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:47	BRS	EPA 200.8 REV 5.4
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Sample: HA00539-26  
Name: BMS-26  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:45

Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:48	BRS	EPA 200.8 REV 5.4
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Sample: HA00539-27  
Name: BMS-27  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:49

Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:50	BRS	EPA 200.8 REV 5.4
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Sample: HA00539-28  
Name: BMS-28  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:49

Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Total Metals - PIA

Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 14:51	BRS	EPA 200.8 REV 5.4
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ANALYTICAL RESULTS

Sample: HA00539-29
Name: BMS-29
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:51

Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method

Total Metals - PIA

Table row for Lead: < 1.00 ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:53, BRS, EPA 200.8 REV 5.4

Sample: HA00539-30
Name: BMS-30
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:52

Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method

Total Metals - PIA

Table row for Lead: < 1.00 ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 14:55, BRS, EPA 200.8 REV 5.4

Sample: HA00539-31
Name: BMS-31
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:55

Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method

Total Metals - PIA

Table row for Lead: < 1.00 ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 15:02, BRS, EPA 200.8 REV 5.4

Sample: HA00539-32
Name: BMS-32
Matrix: Drinking Water - Grab

Sampled: 01/02/24 16:57

Received: 01/04/24 16:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method

Total Metals - PIA

Table row for Lead: < 1.00 ug/L, 01/16/24 10:28, 1, 1.00, 01/16/24 15:04, BRS, EPA 200.8 REV 5.4





ANALYTICAL RESULTS

Sample: HA00539-33  
Name: BMS-33  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 17:00  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 15:05	BRS	EPA 200.8 REV 5.4

Sample: HA00539-34  
Name: BMS-34  
Matrix: Drinking Water - Grab

Sampled: 01/02/24 17:01  
Received: 01/04/24 16:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Total Metals - PIA</b>									
Lead	< 1.00	ug/L		01/16/24 10:28	1	1.00	01/16/24 15:07	BRS	EPA 200.8 REV 5.4



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B423188 - DW 200.8 no prep - EPA 200.8 REV 5.4</b>									
<b>Blank (B423188-BLK1)</b>				Prepared & Analyzed: 01/16/24					
Lead	< 1.00	ug/L							
<b>LCS (B423188-BS1)</b>				Prepared & Analyzed: 01/16/24					
Lead	53.7	ug/L		50.00		107	85-115		
<b>Matrix Spike (B423188-MS1)</b>				Sample: HA00539-10 Prepared & Analyzed: 01/16/24					
Lead	53.7	ug/L		50.00	1.63	104	70-130		
<b>Matrix Spike (B423188-MS2)</b>				Sample: HA00539-20 Prepared & Analyzed: 01/16/24					
Lead	60.4	ug/L		50.00	9.24	102	70-130		
<b>Matrix Spike (B423188-MS3)</b>				Sample: HA00539-30 Prepared & Analyzed: 01/16/24					
Lead	56.2	ug/L		50.00	ND	112	70-130		
<b>Matrix Spike (B423188-MS4)</b>				Sample: HA00539-34 Prepared & Analyzed: 01/16/24					
Lead	53.4	ug/L		50.00	ND	107	70-130		
<b>Matrix Spike (B423188-MS5)</b>				Sample: HA00541-07 Prepared & Analyzed: 01/16/24					
Lead	54.2	ug/L		50.00	1.89	105	70-130		
<b>Matrix Spike (B423188-MS6)</b>				Sample: HA00541-17 Prepared & Analyzed: 01/16/24					
Lead	52.3	ug/L		50.00	ND	105	70-130		
<b>Matrix Spike (B423188-MS7)</b>				Sample: HA00541-27 Prepared & Analyzed: 01/16/24					
Lead	75.1	ug/L		50.00	24.3	102	70-130		
<b>Matrix Spike (B423188-MS8)</b>				Sample: HA00541-37 Prepared & Analyzed: 01/16/24					
Lead	54.0	ug/L		50.00	1.22	106	70-130		
<b>Matrix Spike (B423188-MS9)</b>				Sample: HA00541-47 Prepared & Analyzed: 01/16/24					
Lead	51.9	ug/L		50.00	0.753	102	70-130		
<b>Matrix Spike (B423188-MSA)</b>				Sample: HA00541-59 Prepared & Analyzed: 01/16/24					
Lead	52.0	ug/L		50.00	ND	104	70-130		
<b>Matrix Spike (B423188-MSB)</b>				Sample: HA00543-10 Prepared & Analyzed: 01/16/24					
Lead	58.3	ug/L		50.00	1.20	114	70-130		
<b>Matrix Spike (B423188-MSC)</b>				Sample: HA00543-20 Prepared & Analyzed: 01/16/24					
Lead	57.3	ug/L		50.00	0.120	114	70-130		
<b>Matrix Spike (B423188-MSD)</b>				Sample: HA00543-30 Prepared & Analyzed: 01/16/24					
Lead	57.1	ug/L		50.00	2.47	109	70-130		
<b>Matrix Spike Dup (B423188-MSD1)</b>				Sample: HA00539-10 Prepared & Analyzed: 01/16/24					
Lead	54.2	ug/L		50.00	1.63	105	70-130	1	20
<b>Matrix Spike Dup (B423188-MSD2)</b>				Sample: HA00539-20 Prepared & Analyzed: 01/16/24					
Lead	60.3	ug/L		50.00	9.24	102	70-130	0.2	20
<b>Matrix Spike Dup (B423188-MSD3)</b>				Sample: HA00539-30 Prepared & Analyzed: 01/16/24					
Lead	53.9	ug/L		50.00	ND	108	70-130	4	20
<b>Matrix Spike Dup (B423188-MSD4)</b>				Sample: HA00539-34 Prepared & Analyzed: 01/16/24					
Lead	51.5	ug/L		50.00	ND	103	70-130	4	20
<b>Matrix Spike Dup (B423188-MSD5)</b>				Sample: HA00541-07 Prepared & Analyzed: 01/16/24					
Lead	52.3	ug/L		50.00	1.89	101	70-130	4	20
<b>Matrix Spike Dup (B423188-MSD6)</b>				Sample: HA00541-17 Prepared & Analyzed: 01/16/24					
Lead	52.9	ug/L		50.00	ND	106	70-130	1	20
<b>Matrix Spike Dup (B423188-MSD7)</b>				Sample: HA00541-27 Prepared & Analyzed: 01/16/24					
Lead	75.1	ug/L		50.00	24.3	102	70-130	0.02	20



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B423188-MSD8)</b>	<b>Sample: HA00541-37</b>			Prepared & Analyzed: 01/16/24					
Lead	52.8	ug/L		50.00	1.22	103	70-130	2	20
<b>Matrix Spike Dup (B423188-MSD9)</b>	<b>Sample: HA00541-47</b>			Prepared & Analyzed: 01/16/24					
Lead	53.0	ug/L		50.00	0.753	104	70-130	2	20
<b>Matrix Spike Dup (B423188-MSDA)</b>	<b>Sample: HA00541-59</b>			Prepared & Analyzed: 01/16/24					
Lead	53.2	ug/L		50.00	ND	106	70-130	2	20
<b>Matrix Spike Dup (B423188-MSDB)</b>	<b>Sample: HA00543-10</b>			Prepared & Analyzed: 01/16/24					
Lead	58.1	ug/L		50.00	1.20	114	70-130	0.4	20
<b>Matrix Spike Dup (B423188-MSDC)</b>	<b>Sample: HA00543-20</b>			Prepared & Analyzed: 01/16/24					
Lead	58.0	ug/L		50.00	0.120	116	70-130	1	20
<b>Matrix Spike Dup (B423188-MSDD)</b>	<b>Sample: HA00543-30</b>			Prepared & Analyzed: 01/16/24					
Lead	57.3	ug/L		50.00	2.47	110	70-130	0.4	20
<b>Matrix Spike Dup (B423188-MSDE)</b>	<b>Sample: HA00543-40</b>			Prepared & Analyzed: 01/16/24					
Lead	56.4	ug/L		50.00	ND	113	70-130	0.5	20
<b>Matrix Spike Dup (B423188-MSDF)</b>	<b>Sample: HA00543-50</b>			Prepared & Analyzed: 01/16/24					
Lead	56.8	ug/L		50.00	0.167	113	70-130	0.8	20
<b>Matrix Spike (B423188-MSE)</b>	<b>Sample: HA00543-40</b>			Prepared & Analyzed: 01/16/24					
Lead	56.1	ug/L		50.00	ND	112	70-130		
<b>Matrix Spike (B423188-MSF)</b>	<b>Sample: HA00543-50</b>			Prepared & Analyzed: 01/16/24					
Lead	57.2	ug/L		50.00	0.167	114	70-130		



NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

**Certifications**

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Chenise Lambert-Sykes, Project Manager

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

**CHAIN OF CUSTODY RECORD**  
STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> SCI Engineering ADDRESS: 130 Point West Blvd CITY STATE ZIP: St. Charles, MO 63301 CONTACT PERSON: Brian Lieb		PROJECT NUMBER: 2016-0860.2T PHONE NUMBER: (314) 581-7570		PROJECT LOCATION: Bernard MS E-MAIL: blieb@sciengineering.com		PURCHASE ORDER #		<b>3 ANALYSIS REQUESTED</b>		<b>4 (FOR LAB USE ONLY)</b> LOGIN # <u>HA00</u> LOGGED BY: <u>7152</u> CLIENT: SCI Engineering PROJECT: Drinking Water Lead PROJ. MGR.: Chenise Lambert-Sykes CUSTODY SEAL #:		
<b>2 SAMPLE DESCRIPTION</b> (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB    COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	DW Pb	Turb Check	REMARKS		
BMS-1		1/2/24	1604	X	DW	1	6	X	X			
BMS-2		1/2/24	1605	X	DW	1	6	X	X			
BMS-3		1/2/24	1606	X	DW	1	6	X	X			
BMS-4		1/2/24	1610	X	DW	1	6	X	X			
BMS-5		1/2/24	1610	X	DW	1	6	X	X			
BMS-6		1/2/24	1612	X	DW	1	6	X	X			
BMS-7		1/2/24	1616	X	DW	1	6	X	X			
BMS-8		1/2/24	1617	X	DW	1	6	X	X			
BMS-9		1/2/24	1617	X	DW	1	6	X	X			
BMS-10		1/2/24	1620	X	DW	1	6	X	X			
BMS-11		1/2/24	1621	X	DW	1	6	X	X			
CHEMICAL PRESERVATION CODES: 1 - HCL    2 - H2SO4    3 - HNO3    4 - NAOH    5 - NA2S2O3    6 - UNPRESERVED    7 - OTHER												
<b>5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE)</b> NORMAL    RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE)    EMAIL    PHONE EMAIL IF DIFFERENT FROM ABOVE:    PHONE # IF DIFFERENT FROM ABOVE:				<b>6 DATE RESULTS NEEDED</b>		I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may <b>NOT</b> be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)						
<b>7 RELINQUISHED BY: (SIGNATURE)</b> [Signature]		DATE TIME	RECEIVED BY: (SIGNATURE) [Signature]				DATE TIME	<b>8 COMMENTS: (FOR LAB USE ONLY)</b>				
RELINQUISHED BY: (SIGNATURE) [Signature]		DATE TIME	RECEIVED BY: (SIGNATURE) [Signature]				DATE TIME	SAMPLE TEMPERATURE UPON RECEIPT: <u>20.0</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT: <u>Y OR N</u> SAMPLE(S) RECEIVED ON ICE: <u>Y OR N</u> SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED: <u>Y OR N</u>				
RELINQUISHED BY: (SIGNATURE) [Signature]		DATE TIME	RECEIVED BY: (SIGNATURE) [Signature]				DATE TIME	DATE AND TIME TAKEN FROM SAMPLE BOTTLE:				

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

**CHAIN OF CUSTODY RECORD**  
STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1</b> CLIENT SCI Engineering  ADDRESS 130 Point West Blvd  CITY STATE ZIP St. Charles, MO 63301  CONTACT PERSON Brian Lieb	PROJECT NUMBER 2016-0860.2T	PROJECT LOCATION Bernard MS	PURCHASE ORDER #	<b>3</b> ANALYSIS REQUESTED  DW Pb Turb Check	<b>4</b> (FOR LAB USE ONLY) LOGIN # <u>HA00539</u> LOGGED BY: <u>7054</u> CLIENT: SCI Engineering PROJECT: Drinking Water Lead PROJ. MGR.: Chenise Lambert-Sykes CUSTODY SEAL #: _____
	PHONE NUMBER (314) 581-7570	E-MAIL blieb@sciengineering.com	DATE SHIPPED		
	SAMPLER (PLEASE PRINT) Kieran Kleinhenz		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LGHT- LEACHATE OIL- OIL SO- SOIL SOL- SOLID		
	SAMPLER'S SIGNATURE				

<b>2</b> SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	DW	Pb	Turb	Check	REMARKS
			GRAB	COMP								
BMS-12	1/2/24	1625	X		DW	1	6	X	X			
BMS-13	1/2/24	1625	X		DW	1	6	X	X			
BMS-14	1/2/24	1625	X		DW	1	6	X	X			
BMS-15	1/2/24	1629	X		DW	1	6	X	X			
BMS-16	1/2/24	1632	X		DW	1	6	X	X			
BMS-17	1/2/24	1635	X		DW	1	6	X	X			
BMS-18	1/2/24	1635	X		DW	1	6	X	X			
BMS-19	1/2/24	1636	X		DW	1	6	X	X			
BMS-20	1/2/24	1637	X		DW	1	6	X	X			
BMS-21	1/2/24	1638	X		DW	1	6	X	X			
BMS-22	1/2/24	1639	X		DW	1	6	X	X			

CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER

<b>5</b> TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)  RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE  EMAIL IF DIFFERENT FROM ABOVE: _____ PHONE # IF DIFFERENT FROM ABOVE: _____	DATE RESULTS NEEDED	<b>6</b> I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample performance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.  PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____
--	---------------------	--

<b>7</b> RELINQUISHED BY: (SIGNATURE) <i>Ron Plana</i>  RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>  RELINQUISHED BY: (SIGNATURE)	DATE TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <u>1/4/24</u> TIME <u>1045</u>	<b>8</b> COMMENTS: (FOR LAB USE ONLY)  SAMPLE TEMPERATURE UPON RECEIPT <u>20.0</u> °C  CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED DATE AND TIME TAKEN FROM SAMPLE BOTTLE
	DATE <u>1/4/24</u> TIME <u>1600</u>	RECEIVED BY: (SIGNATURE)	DATE TIME	
	DATE TIME	RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE <u>1/4/24</u> TIME <u>1630</u>	



REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

**CHAIN OF CUSTODY RECORD**  
 STATE WHERE SAMPLE COLLECTED MO

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1</b> CLIENT SCI Engineering	PROJECT NUMBER 2016-0860.2T	PROJECT LOCATION Bernard MS	PURCHASE ORDER #	<b>3</b> ANALYSIS REQUESTED	<b>4</b> (FOR LAB USE ONLY) 579 LOGIN # <u>HA000002</u> LOGGED BY: <u>2051</u> CLIENT: SCI Engineering PROJECT: Drinking Water Lead PROJ. MGR.: Chenise Lambert-Sykes CUSTODY SEAL #: _____
ADDRESS 130 Point West Blvd	PHONE NUMBER (314) 581-7570	E-MAIL blieb@sciengineering.com	DATE SHIPPED	<input checked="" type="checkbox"/> DW Pb <input checked="" type="checkbox"/> Turb Check	
CITY STATE ZIP St. Charles, MO 63301	SAMPLER (PLEASE PRINT) Kieran Kleinhenz	MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LCHT- LEACHATE OIL-OIL SO-SOIL SOL-SOLID			
CONTACT PERSON Brian Lieb	SAMPLER'S SIGNATURE				

2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE		MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED	DW Pb	Turb Check										REMARKS
			GRAB	COMP															
BMS-23	1/2/24	1641	X		DW	1	6	X	X										
BMS-24	1/2/24	1642	X		DW	1	6	X	X										
BMS-25	1/2/24	1644	X		DW	1	6	X	X										
BMS-26	1/2/24	1645	X		DW	1	6	X	X										
BMS-27	1/2/24	1649	X		DW	1	6	X	X										
BMS-28	1/2/24	1649	X		DW	1	6	X	X										
BMS-29	1/2/24	1651	X		DW	1	6	X	X										
BMS-30	1/2/24	1652	X		DW	1	6	X	X										
BMS-31	1/2/24	1655	X		DW	1	6	X	X										
BMS-32	1/2/24	1657	X		DW	1	6	X	X										
BMS-33	1/2/24	1700	X		DW	1	6	X	X										

CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER

<b>5</b> TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)	DATE RESULTS NEEDED	<b>6</b> I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may NOT be acceptable to report to all regulatory authorities.
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE		PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:		

<b>7</b> RELINQUISHED BY: (SIGNATURE) <u>R. em Klaha</u>	DATE 1-4-24	RECEIVED BY: (SIGNATURE) <u>[Signature]</u>	DATE 1-4-24	<b>8</b> COMMENTS: (FOR LAB USE ONLY)
RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	TIME 1600	RECEIVED BY: (SIGNATURE) <u>[Signature]</u>	TIME 1045	SAMPLE TEMPERATURE UPON RECEIPT 20.0 °C
RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE 1/9/24	RECEIVED BY: (SIGNATURE) <u>[Signature]</u>	DATE 1/9/24	CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED
	TIME		TIME 1626	DATE AND TIME TAKEN FROM SAMPLE BOTTLE

