



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

July 13, 2026

Patrick McCart
Rockwood School District
17146 Manchester Road
Grover, Missouri 63040

RE: Lead in Drinking Water Report - Resample
Bowles Elementary School
501 Bowles Avenue
Fenton, Missouri
SCI No. 2018-0351.2A Task 200

Dear Patrick McCart:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead in drinking water testing activities performed on July 17, 2023, and subsequent resampling conducted on November 17, 2023. The purpose of the initial sampling activities was to screen for elevated levels of lead in the drinking water at potable water sources throughout the above-referenced structure.

Following the initial testing, the school district performed remediation on fixtures which previously exceeded the action level. The remediated fixtures were then resampled, the results of which are summarized herein.

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 that it is not to be used as a drinking water source.

During the course of performing the initial survey of the structure, the water fountain attached to a sink, near rooms 15 and 16 was non-operational. If this fixture is made operational, it should be sampled or labeled non-potable. SCI was able to sample all other locations 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.

On July 17, 2023, SCI initially collected 21 drinking water samples (BES-1 through BES-21) from various water fixtures located throughout the structure and submitted them for analytical testing. During this sampling event, 3 sample locations exceeded the action level (AL) of 5.0 micrograms lead per liter of water. Two fixtures were removed; the other fixture was taken out of service until remediation activities could be completed.

During SCI’s resampling event on November 17, 2023, 2 drinking water samples were collected from the fixture that exceeded 5.0 micrograms lead per liter of water. In addition to the first draw sample, SCI also collected a second draw sample during the resampling event. The second draw sample was collected after the first draw sample and consisted of flushing the fixture for approximately 30 seconds and then collecting the sample. The purpose of the second draw sample is to aid in pinpointing any potential lead contamination and determine appropriate remediation. During this sampling event, the location was below the AL and was returned to service.

All drinking water sample was analyzed for total lead by U.S. EPA Method 200.8. SCI collected a minimum of 250 milliliters of water from these locations. Sampled water was containerized in laboratory-provided sample containers and shipped to the accredited lab using standard chain-of-custody procedures.

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 initially exceeded the AL are identified in Table 1, below. Additionally, the results of SCI’s resampling efforts are included in the right-hand columns below. Results in bold from SCI’s resampling indicate a result greater than the AL. 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	Initial Result (ppb)	Resampling-First Draw (ppb)	Resampling-Second Draw (ppb)
BES-3	Bathroom by Room 11	Water fountain attached to sink	7.02	NS	
BES-8	1 st Grade Hallway by Room 4	Water fountain attached to sink	5.59	NS	
BES-15	Kitchen	Handwash Sink	36.1	<1.0	<1.0

NS – not sampled

CONCLUSION AND RECOMMENDATIONS

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.

SCI appreciates the opportunity to be of service to you on this project. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.



Ethan D. Boyer
Project Scientist



Jessica B. Keeven, CHMM
Environmental Services Manager

EDB/GBK/bmw

Enclosures

Lead Testing Results



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

August 22, 2023

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

RE: 2018-0351.2T-BES

Dear Glenn Grissom:

Please find enclosed the analytical results for the **21** sample(s) the laboratory received on **7/21/23 2:30 pm** and logged in under work order **GG03941**. 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.

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order GG03941

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
YES	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: GG03941-01
Name: BES - 1
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:26
Received: 07/21/23 14:30

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

Lead	3.16	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:01	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-02
Name: BES - 2
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:27
Received: 07/21/23 14:30

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

Lead	2.81	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:02	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-03
Name: BES - 3
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:30
Received: 07/21/23 14:30

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

Lead	7.02	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:04	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-04
Name: BES - 4
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:32
Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:08	KMC	EPA 200.8 REV 5.4
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ANALYTICAL RESULTS

Sample: GG03941-05
Name: BES - 5
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:32

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:10	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-06
Name: BES - 6
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:33

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:12	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-07
Name: BES - 7
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:34

Received: 07/21/23 14:30

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

Lead	2.86	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:13	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-08
Name: BES - 8
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:36

Received: 07/21/23 14:30

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

Lead	5.59	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:15	KMC	EPA 200.8 REV 5.4
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ANALYTICAL RESULTS

Sample: GG03941-09
Name: BES - 9
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:37

Received: 07/21/23 14:30

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

Lead	2.76	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:16	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-10
Name: BES - 10
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:39

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:18	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-11
Name: BES - 11
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:40

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:22	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-12
Name: BES - 12
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:41

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:27	KMC	EPA 200.8 REV 5.4
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ANALYTICAL RESULTS

Sample: GG03941-13
Name: BES - 13
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:44

Received: 07/21/23 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	2.64	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:29	KMC	EPA 200.8 REV 5.4

Sample: GG03941-14
Name: BES - 14
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:44

Received: 07/21/23 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	1.33	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:30	KMC	EPA 200.8 REV 5.4

Sample: GG03941-15
Name: BES - 15
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:46

Received: 07/21/23 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	36.1	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:32	KMC	EPA 200.8 REV 5.4

Sample: GG03941-16
Name: BES - 16
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:48

Received: 07/21/23 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:33	KMC	EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG03941-17
Name: BES - 17
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:49

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:35	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-18
Name: BES - 18
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:51

Received: 07/21/23 14:30

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

Lead	1.16	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:37	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-19
Name: BES - 19
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:53

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:38	KMC	EPA 200.8 REV 5.4
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Sample: GG03941-20
Name: BES - 20
Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:53

Received: 07/21/23 14:30

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

Lead	< 1.00	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:40	KMC	EPA 200.8 REV 5.4
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Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

ANALYTICAL RESULTS

Sample: GG03941-21

Name: BES - 21

Matrix: Drinking Water - Grab

Sampled: 07/17/23 17:55

Received: 07/21/23 14:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Total Metals - PIA</u>									
Lead	1.75	ug/L		08/21/23 10:31	1	1.00	08/21/23 13:47	KMC	EPA 200.8 REV 5.4



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B341769 - DW 200.8 no prep - EPA 200.8 REV 5.4</u>									
Blank (B341769-BLK1)				Prepared & Analyzed: 08/21/23					
Lead	< 1.00	ug/L							
LCS (B341769-BS1)				Prepared & Analyzed: 08/21/23					
Lead	53.7	ug/L		50.00		107	85-115		
Matrix Spike (B341769-MS1)				Prepared & Analyzed: 08/21/23					
Lead	101	ug/L		50.00	2.28	196	70-130		
Matrix Spike (B341769-MS2)				Prepared & Analyzed: 08/21/23					
Lead	77.1	ug/L		50.00	22.5	109	70-130		
Matrix Spike (B341769-MS3)				Prepared & Analyzed: 08/21/23					
Lead	53.5	ug/L		50.00	0.169	107	70-130		
Matrix Spike (B341769-MS4)				Prepared & Analyzed: 08/21/23					
Lead	49.8	ug/L		50.00	0.213	99	70-130		
Matrix Spike (B341769-MS5)				Prepared & Analyzed: 08/21/23					
Lead	44.5	ug/L		50.00	0.448	88	70-130		
Matrix Spike (B341769-MS6)				Prepared & Analyzed: 08/21/23					
Lead	51.9	ug/L		50.00	3.96	96	70-130		
Matrix Spike (B341769-MS7)				Prepared & Analyzed: 08/21/23					
Lead	50.3	ug/L		50.00	0.794	99	70-130		
Matrix Spike (B341769-MS8)				Prepared & Analyzed: 08/21/23					
Lead	47.8	ug/L		50.00	0.572	95	70-130		
Matrix Spike (B341769-MS9)				Prepared & Analyzed: 08/21/23					
Lead	50.6	ug/L		50.00	1.66	98	70-130		
Matrix Spike (B341769-MSA)				Prepared & Analyzed: 08/21/23					
Lead	50.9	ug/L		50.00	2.46	97	70-130		
Matrix Spike (B341769-MSB)				Prepared & Analyzed: 08/21/23					
Lead	< 1.00	ug/L	Q1	50.00	ND		70-130		
Matrix Spike (B341769-MSC)				Prepared & Analyzed: 08/21/23					
Lead	51.6	ug/L		50.00	1.64	100	70-130		
Matrix Spike Dup (B341769-MSD1)				Prepared & Analyzed: 08/21/23					
Lead	103	ug/L		50.00	2.28	201	70-130	2	20
Matrix Spike Dup (B341769-MSD2)				Prepared & Analyzed: 08/21/23					
Lead	73.6	ug/L		50.00	22.5	102	70-130	5	20
Matrix Spike Dup (B341769-MSD3)				Prepared & Analyzed: 08/21/23					
Lead	60.0	ug/L		50.00	0.169	120	70-130	11	20
Matrix Spike Dup (B341769-MSD4)				Prepared & Analyzed: 08/21/23					
Lead	48.8	ug/L		50.00	0.213	97	70-130	2	20
Matrix Spike Dup (B341769-MSD5)				Prepared & Analyzed: 08/21/23					
Lead	44.6	ug/L		50.00	0.448	88	70-130	0.3	20
Matrix Spike Dup (B341769-MSD6)				Prepared & Analyzed: 08/21/23					
Lead	53.4	ug/L		50.00	3.96	99	70-130	3	20
Matrix Spike Dup (B341769-MSD7)				Prepared & Analyzed: 08/21/23					
Lead	51.7	ug/L		50.00	0.794	102	70-130	3	20
Matrix Spike Dup (B341769-MSD8)				Prepared & Analyzed: 08/21/23					
Lead	53.3	ug/L		50.00	0.572	106	70-130	11	20



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B341769-MSD9)	Sample: GG04124-07			Prepared & Analyzed: 08/21/23					
Lead	53.6	ug/L		50.00	1.66	104	70-130	6	20
Matrix Spike Dup (B341769-MSDA)	Sample: GG04157-01			Prepared & Analyzed: 08/21/23					
Lead	50.4	ug/L		50.00	2.46	96	70-130	0.9	20
Matrix Spike Dup (B341769-MSDB)	Sample: GG04268-02			Prepared & Analyzed: 08/21/23					
Lead	< 1.00	ug/L	Q2	50.00	ND		70-130		20
Matrix Spike Dup (B341769-MSDC)	Sample: GG04316-01			Prepared & Analyzed: 08/21/23					
Lead	53.3	ug/L		50.00	1.64	103	70-130	3	20



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

Qualifiers

Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.

Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.

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)

1 CLIENT SCI Engineering		PROJECT NUMBER 2018-0351.2T		PROJECT LOCATION BES		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # <u>GG341</u> LOGGED BY: <u>SIAB</u> CLIENT: <u>SCI Engineering</u> PROJECT: <u>Drinking Water Lead</u> PROJ. MGR.: <u>Chenise Lambert-Sykes</u> CUSTODY SEAL #: _____	
ADDRESS 130 Point West Blvd		PHONE NUMBER (314) 581-7570		E-MAIL ggriissom@sciengineering.com		DATE SHIPPED		DW Pb Turb Check		REMARKS	
CITY STATE ZIP St. Charles, MO 63301		SAMPLER (PLEASE PRINT) Ethan Boyer		MATRIX TYPES: WW- WASTEWATER DW- DRINKING WATER GW- GROUND WATER WWSL- SLUDGE NAS- NON AQUEOUS SOLID LGHT- LEACHATE OIL- OIL SO- SOIL SOL- SOLID							
CONTACT PERSON Glen Grissom		SAMPLER'S SIGNATURE									
2 SAMPLE DESCRIPTION (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				
BES- 1		7-17-23	1726	X X	DW	1	6	X X			
BES- 2		7-17-23	1727	X X	DW	1	6	X X			
BES- 3		7-17-23	1730	X X	DW	1	6	X X			
BES- 4		7-17-23	1732	X X	DW	1	6	X X			
BES- 5		7-17-23	1732	X X	DW	1	6	X X			
BES- 6		7-17-23	1733	X X	DW	1	6	X X			
BES- 7		7-17-23	1734	X X	DW	1	6	X X			
BES- 8		7-17-23	1736	X X	DW	1	6	X X			
BES- 9		7-17-23	1737	X X	DW	1	6	X X			
BES- 10		7-17-23	1739	X X	DW	1	6	X X			
BES- 11		7-17-23	1740	X X	DW	1	6	X X			
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER											
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) <u>NORMAL</u> 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		6 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. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____					
7 RELINQUISHED BY: (SIGNATURE) 		DATE 7-20-23 TIME 15:45	RECEIVED BY: (SIGNATURE) 		DATE 7/21/23 TIME 10:20	8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE _____					
RELINQUISHED BY: (SIGNATURE) 		DATE 7/21/23 TIME 1430	RECEIVED BY: (SIGNATURE) 		DATE 7-21-23 TIME 14:30						
RELINQUISHED BY: (SIGNATURE)		DATE TIME	RECEIVED BY: (SIGNATURE)		DATE TIME						



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)

1 CLIENT SCI Engineering		PROJECT NUMBER 2018-0351.2T		PROJECT LOCATION BES		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY)									
ADDRESS 130 Point West Blvd		PHONE NUMBER (314) 581-7570		E-MAIL ggrissom@sciengineering.com		DATE SHIPPED		LOG IN # GG03041		LOGGED BY: SAB									
CITY St. Charles, MO 63301		SAMPLER (PLEASE PRINT) Ethan Boyer		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-NON AQUEOUS SOLID LCHT-LEACHATE OIL-OIL SO-SOIL SOL-SOLID		DATE SHIPPED		CLIENT: SCI Engineering		PROJECT: Drinking Water Lead									
CONTACT PERSON Glen Grissom		SAMPLER'S SIGNATURE		DATE SHIPPED		DATE SHIPPED		PROJ. MGR.: Chenise Lambert-Sykes		CUSTODY SEAL #:									
2 SAMPLE DESCRIPTION (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	
BES-12		7-17-23		1741		X X		DW		1		6		X X					
BES-13		7-17-23		1744		X X		DW		1		6		X X					
BES-14		7-17-23		1744		X X		DW		1		6		X X					
BES-15		7-17-23		1746		X X		DW		1		6		X X					
BES-16		7-17-23		1748		X X		DW		1		6		X X					
BES-17		7-17-23		1749		X X		DW		1		6		X X					
BES-18		7-17-23		1751		X X		DW		1		6		X X					
BES-19		7-17-23		1753		X X		DW		1		6		X X					
BES-20		7-17-23		1753		X X		DW		1		6		X X					
BES-21		7-17-23		1755		X X		DW		1		6		X X					
BES-22		7-17-23		1755		X X		DW		1		6		X X					
CHEMICAL PRESERVATION CODES:		1-HCL		2-H2SO4		3-HNO3		4-NAOH		5-NA2S2O3		6-UNPRESERVED		7-OTHER					
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)		NORMAL		RUSH		DATE RESULTS NEEDED		6 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.		PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS)									
7 RELINQUISHED BY: (SIGNATURE)		DATE 7-20-23		TIME 15:46		RECEIVED BY: (SIGNATURE)		DATE 7/21/23		TIME 10:20		8 COMMENTS: (FOR LAB USE ONLY)							
RELINQUISHED BY: (SIGNATURE)		DATE 7/21/23		TIME 14:30		RECEIVED BY: (SIGNATURE)		DATE		TIME		SAMPLE TEMPERATURE UPON RECEIPT							
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE 7-21-23		TIME 14:30		CHILL PROCESS STARTED PRIOR TO RECEIPT		Y OR N		Y OR N		Y OR N	
												SAMPLE(S) RECEIVED ON ICE		Y OR N		Y OR N		Y OR N	
												SAMPLE ACCEPTANCE NONCONFORMANT		Y OR N		Y OR N		Y OR N	
												REPORT IS NEEDED		Y OR N		Y OR N		Y OR N	
												DATE AND TIME TAKEN FROM SAMPLE							

November 20, 2023

Brian Lieb
SCI Engineering, Inc.
130 Point West Boulevard
St. Charles, MO 63301
TEL: (314) 956-8240
FAX: (636) 949-8269



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: 2018-0351.2A T200 Bowles Elem

WorkOrder: 23111384

Dear Brian Lieb:

TEKLAB, INC received 2 samples on 11/17/2023 10:37:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCS D Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Cooler Receipt Temp: N/A °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: SCI Engineering, Inc.**Work Order:** 23111384**Client Project:** 2018-0351.2A T200 Bowles Elem**Report Date:** 20-Nov-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Lab ID: 23111384-001

Client Sample ID: BES-15R

Matrix: DRINKING WATER

Collection Date: 11/17/2023 1:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/20/2023 9:11	214908



Laboratory Results

<http://www.teklabinc.com/>

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Lab ID: 23111384-002

Client Sample ID: BES-15(2nd)

Matrix: DRINKING WATER

Collection Date: 11/17/2023 1:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)								
Lead	NELAP	1.0		< 1.0	µg/L	1	11/20/2023 9:15	214908



Receiving Check List

<http://www.teklabinc.com/>

Client: SCI Engineering, Inc.

Work Order: 23111384

Client Project: 2018-0351.2A T200 Bowles Elem

Report Date: 20-Nov-23

Carrier: Employee

Received By: HAW

Completed by:

On:

17-Nov-23

Amber Dilallo

Reviewed by:

On:

17-Nov-23

Ellie Hopkins

Pages to follow:

Chain of custody

1

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C N/A

Type of thermal preservation?

None ☒

Ice ☐

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 11/17/2023 11:09:40 AM

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

[illegible]

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

HW 111