



SCI ENGINEERING, INC.

EARTH • SCIENCE • SOLUTIONS

GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

August 30, 2023

Jeff Solter
Washington School District-Buildings and Grounds
2160 Highway A
Washington, Missouri 63090

RE: Lead in Drinking Water Report
Marthasville Elementary School
800 East Main Street
Marthasville, Missouri 63090
SCI No. 2010-5012.2T

Dear Jeff Solter:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead in drinking water testing activities performed on July 5, 2023. 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 testing 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 testing of 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 sampling of the fixtures within the building, 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 25 drinking water samples (MES-1 through MES-25) 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. A figure depicting the locations of the sampled water fixtures is 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)
MES-8	Room 1105A	Sink	20.5
MES-13	Room 1409	Right Stainless-Steel Sink	12.0
MES-14	Room 1409	Left Porcelain Sink	21.0
MES-15	Room 1409	Right Faucet in the Triple Basin Sink	12.0
MES-16	Room 1409	Left Faucet in the Triple Basin Sink	5.97
MES-17	Room 1409	Water Spigot on Wall	352
MES-18	Room 1301	Sink	37.4
MES-19	Room 1304	Sink	16.0
MES-20	Room 1304	Water Fountain	16.4
MES-21	Room 1305	Sink	25.1
MES-22	Room 1305	Water Fountain	13.6
MES-23	Room 1208	Left Water Spigot	225
MES-24	Room 1208	Right Sink	64.4

CONCLUSION AND RECOMMENDATIONS

As can be seen in Table 1, above, 13 drinking water samples exceeded the AL of 5 ppb. According to GTLOSDWA, these water fixtures shall be removed and replaced prior to August 1, 2024, or the first day on which students will be present in the building, whichever is later. The replacement fixture shall be lead free, as such term is 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. Once all fixtures have been tested and are below the action level, the school shall test the 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.

Respectfully,

SCI ENGINEERING, INC.



Brian L. Lieb
Project Scientist



Glen A. Grissom
Senior Specialist

BLL/GAG/rah

Enclosure

Lead Testing Results
Lead Drinking Water Sampling Plan



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

July 22, 2023

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

RE: 2010-5012.2T-MES

Dear Glenn Grissom:

Please find enclosed the analytical results for the **25** sample(s) the laboratory received on **7/7/23 3:30 pm** and logged in under work order **GG00878**. 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 GG00878

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: GG00878-01
Name: MES - 1
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:43
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:51, tij, EPA 200.8 REV 5.4

Sample: GG00878-02
Name: MES - 2
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:45
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:53, tij, EPA 200.8 REV 5.4

Sample: GG00878-03
Name: MES - 3
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:46
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:54, tij, EPA 200.8 REV 5.4

Sample: GG00878-04
Name: MES - 4
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:48
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:56, tij, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG00878-05
Name: MES - 5
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:51
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.84, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:57, tj, EPA 200.8 REV 5.4

Sample: GG00878-06
Name: MES - 6
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 16:53
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 10:59, tj, EPA 200.8 REV 5.4

Sample: GG00878-07
Name: MES - 7
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:03
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.48, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 11:04, tj, EPA 200.8 REV 5.4

Sample: GG00878-08
Name: MES - 8
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:06
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 20.5, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 11:05, tj, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG00878-09
Name: MES - 9
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:10
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, < 1.00, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:00, tj, EPA 200.8 REV 5.4

Sample: GG00878-10
Name: MES - 10
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:11
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 1.27, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:02, tj, EPA 200.8 REV 5.4

Sample: GG00878-11
Name: MES - 11
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:12
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 4.90, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:03, tj, EPA 200.8 REV 5.4

Sample: GG00878-12
Name: MES - 12
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:15
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 3.86, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:05, tj, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG00878-13
Name: MES - 13
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:16
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 12.0, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:06, tj, EPA 200.8 REV 5.4

Sample: GG00878-14
Name: MES - 14
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:17
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 21.0, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:08, tj, EPA 200.8 REV 5.4

Sample: GG00878-15
Name: MES - 15
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:18
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 12.0, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:10, tj, EPA 200.8 REV 5.4

Sample: GG00878-16
Name: MES - 16
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:19
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 5.97, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:11, tj, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG00878-17

Name: MES - 17

Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:20

Received: 07/07/23 15:30

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

Lead	352	ug/L		07/20/23 12:13	1	1.00	07/21/23 12:21	tjj	EPA 200.8 REV 5.4
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Sample: GG00878-18

Name: MES - 18

Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:23

Received: 07/07/23 15:30

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

Lead	37.4	ug/L		07/20/23 12:13	1	1.00	07/21/23 12:23	tjj	EPA 200.8 REV 5.4
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Sample: GG00878-19

Name: MES - 19

Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:25

Received: 07/07/23 15:30

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

Lead	16.0	ug/L		07/20/23 12:13	1	1.00	07/21/23 12:24	tjj	EPA 200.8 REV 5.4
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Sample: GG00878-20

Name: MES - 20

Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:27

Received: 07/07/23 15:30

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

Lead	16.4	ug/L		07/20/23 12:13	1	1.00	07/21/23 12:26	tjj	EPA 200.8 REV 5.4
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ANALYTICAL RESULTS

Sample: GG00878-21
Name: MES - 21
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:30
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 25.1, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:28, tj, EPA 200.8 REV 5.4

Sample: GG00878-22
Name: MES - 22
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:32
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 13.6, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:29, tj, EPA 200.8 REV 5.4

Sample: GG00878-23
Name: MES - 23
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:36
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 225, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:58, tj, EPA 200.8 REV 5.4

Sample: GG00878-24
Name: MES - 24
Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:37
Received: 07/07/23 15:30

Table with 10 columns: Parameter, Result, Unit, Qualifier, Prepared, Dilution, MRL, Analyzed, Analyst, Method. Row 1: Lead, 64.4, ug/L, 07/20/23 12:13, 1, 1.00, 07/21/23 12:32, tj, EPA 200.8 REV 5.4



ANALYTICAL RESULTS

Sample: GG00878-25

Name: MES - 25

Matrix: Drinking Water - Regular Sample

Sampled: 07/05/23 17:41

Received: 07/07/23 15:30

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Total Metals - PIA									
Lead	< 1.00	ug/L		07/20/23 12:13	1	1.00	07/21/23 12:34	tij	EPA 200.8 REV 5.4



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B339120 - DW 200.8 no prep - EPA 200.8 REV 5.4									
Blank (B339120-BLK1)				Prepared & Analyzed: 07/20/23					
Lead	< 1.00	ug/L							
LCS (B339120-BS1)				Prepared & Analyzed: 07/20/23					
Lead	45.4	ug/L		50.00		91	85-115		
Matrix Spike (B339120-MS1)				Sample: GG00192-63 Prepared & Analyzed: 07/20/23					
Lead	48.8	ug/L		50.00	ND	98	70-130		
Matrix Spike (B339120-MS2)				Sample: GG00192-76 Prepared & Analyzed: 07/20/23					
Lead	47.0	ug/L		50.00	0.392	93	70-130		
Matrix Spike (B339120-MS3)				Sample: GG00192-84 Prepared & Analyzed: 07/20/23					
Lead	47.9	ug/L		50.00	0.159	95	70-130		
Matrix Spike (B339120-MS4)				Sample: GG00192-93 Prepared & Analyzed: 07/20/23					
Lead	46.3	ug/L		50.00	0.291	92	70-130		
Matrix Spike (B339120-MS5)				Sample: GG00405-05 Prepared & Analyzed: 07/20/23					
Lead	50.0	ug/L		50.00	2.25	95	70-130		
Matrix Spike (B339120-MS6)				Sample: GG00577-05 Prepared & Analyzed: 07/20/23					
Lead	50.8	ug/L		50.00	ND	102	70-130		
Matrix Spike (B339120-MS7)				Sample: GG00586-10 Prepared & Analyzed: 07/20/23					
Lead	56.1	ug/L		50.00	5.24	102	70-130		
Matrix Spike (B339120-MS8)				Sample: GG00610-01 Prepared & Analyzed: 07/20/23					
Lead	49.1	ug/L		50.00	0.829	96	70-130		
Matrix Spike (B339120-MS9)				Sample: GG00679-21 Prepared & Analyzed: 07/20/23					
Lead	49.8	ug/L		50.00	0.332	99	70-130		
Matrix Spike (B339120-MSA)				Sample: GG00730-09 Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.4	ug/L		50.00	0.113	99	70-130		
Matrix Spike (B339120-MSB)				Sample: GG00878-06 Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.8	ug/L		50.00	0.918	98	70-130		
Matrix Spike (B339120-MSC)				Sample: GG00878-16 Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	57.2	ug/L		50.00	5.97	103	70-130		
Matrix Spike (B339120-MSD)				Sample: GG00878-25 Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	51.6	ug/L		50.00	0.795	102	70-130		
Matrix Spike Dup (B339120-MSD1)				Sample: GG00192-63 Prepared & Analyzed: 07/20/23					
Lead	48.2	ug/L		50.00	ND	96	70-130	1	20
Matrix Spike Dup (B339120-MSD2)				Sample: GG00192-76 Prepared & Analyzed: 07/20/23					
Lead	45.5	ug/L		50.00	0.392	90	70-130	3	20
Matrix Spike Dup (B339120-MSD3)				Sample: GG00192-84 Prepared & Analyzed: 07/20/23					
Lead	46.9	ug/L		50.00	0.159	94	70-130	2	20
Matrix Spike Dup (B339120-MSD4)				Sample: GG00192-93 Prepared & Analyzed: 07/20/23					
Lead	47.3	ug/L		50.00	0.291	94	70-130	2	20
Matrix Spike Dup (B339120-MSD5)				Sample: GG00405-05 Prepared & Analyzed: 07/20/23					
Lead	55.0	ug/L		50.00	2.25	106	70-130	10	20
Matrix Spike Dup (B339120-MSD6)				Sample: GG00577-05 Prepared & Analyzed: 07/20/23					
Lead	50.5	ug/L		50.00	ND	101	70-130	0.7	20
Matrix Spike Dup (B339120-MSD7)				Sample: GG00586-10 Prepared & Analyzed: 07/20/23					
Lead	56.0	ug/L		50.00	5.24	102	70-130	0.1	20



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B339120-MSD8)	Sample: GG00610-01			Prepared & Analyzed: 07/20/23					
Lead	50.5	ug/L		50.00	0.829	99	70-130	3	20
Matrix Spike Dup (B339120-MSD9)	Sample: GG00679-21			Prepared & Analyzed: 07/20/23					
Lead	53.3	ug/L		50.00	0.332	106	70-130	7	20
Matrix Spike Dup (B339120-MSDA)	Sample: GG00730-09			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.3	ug/L		50.00	0.113	98	70-130	0.1	20
Matrix Spike Dup (B339120-MSDB)	Sample: GG00878-06			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	51.8	ug/L		50.00	0.918	102	70-130	4	20
Matrix Spike Dup (B339120-MSDC)	Sample: GG00878-16			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	55.4	ug/L		50.00	5.97	99	70-130	3	20
Matrix Spike Dup (B339120-MSDD)	Sample: GG00878-25			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	50.5	ug/L		50.00	0.795	99	70-130	2	20
Matrix Spike Dup (B339120-MSDE)	Sample: GG00907-08			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.1	ug/L		50.00	0.331	98	70-130	0.9	20
Matrix Spike Dup (B339120-MSDF)	Sample: GG00907-18			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	52.2	ug/L		50.00	1.19	102	70-130	6	20
Matrix Spike Dup (B339120-MSDG)	Sample: GG00907-28			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	50.6	ug/L		50.00	0.604	100	70-130	2	20
Matrix Spike Dup (B339120-MSDH)	Sample: GG00911-10			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.7	ug/L		50.00	0.126	99	70-130	12	20
Matrix Spike Dup (B339120-MSDI)	Sample: GG00911-20			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	51.2	ug/L		50.00	1.41	100	70-130	4	20
Matrix Spike Dup (B339120-MSDJ)	Sample: GG00956-30			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	48.4	ug/L		50.00	0.588	96	70-130	3	20
Matrix Spike Dup (B339120-MSDK)	Sample: GG00956-20			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	50.7	ug/L		50.00	0.663	100	70-130	5	20
Matrix Spike Dup (B339120-MSDL)	Sample: GG00956-10			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.0	ug/L		50.00	0.349	97	70-130	6	20
Matrix Spike Dup (B339120-MSDM)	Sample: GG00947-01			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	50.0	ug/L		50.00	0.536	99	70-130	5	20
Matrix Spike Dup (B339120-MSDN)	Sample: GG01180-01			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	48.1	ug/L		50.00	3.55	89	70-130	2	20
Matrix Spike (B339120-MSE)	Sample: GG00907-08			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.6	ug/L		50.00	0.331	98	70-130		
Matrix Spike (B339120-MSF)	Sample: GG00907-18			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.1	ug/L		50.00	1.19	96	70-130		
Matrix Spike (B339120-MSG)	Sample: GG00907-28			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	51.4	ug/L		50.00	0.604	102	70-130		
Matrix Spike (B339120-MSH)	Sample: GG00911-10			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	44.3	ug/L		50.00	0.126	88	70-130		
Matrix Spike (B339120-MSI)	Sample: GG00911-20			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.3	ug/L		50.00	1.41	96	70-130		
Matrix Spike (B339120-MSJ)	Sample: GG00956-30			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	49.8	ug/L		50.00	0.588	99	70-130		
Matrix Spike (B339120-MSK)	Sample: GG00956-20			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	53.5	ug/L		50.00	0.663	106	70-130		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B339120-MSL)	Sample: GG00956-10			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	52.0	ug/L		50.00	0.349	103	70-130		
Matrix Spike (B339120-MSM)	Sample: GG00947-01			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	52.5	ug/L		50.00	0.536	104	70-130		
Matrix Spike (B339120-MSN)	Sample: GG01180-01			Prepared: 07/20/23 Analyzed: 07/21/23					
Lead	47.4	ug/L		50.00	3.55	88	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

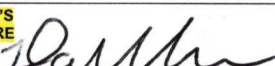


Certified by: Chenise Lambert-Sykes, Project Manager

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

CHAIN OF CUSTODY RECORD
 STATE WHERE SAMPLE COLLECTED MO




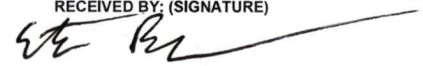


ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT SCI Engineering ADDRESS 130 Point West Blvd CITY STATE ZIP St. Charles, MO 63301 CONTACT PERSON Glen Grissom	PROJECT NUMBER 2010-5012.2T	PROJECT LOCATION MES	PURCHASE ORDER #	3 ANALYSIS REQUESTED + + DW Pb Turb Check	4 (FOR LAB USE ONLY) LOGIN # <u>6600878</u> LOGGED BY: <u>SAB</u> CLIENT: <u>SCI Engineering</u> PROJECT: <u>Drinking Water Lead</u> PROJ. MGR.: <u>Chenise Lambert-Sykes</u> CUSTODY SEAL #: _____
	PHONE NUMBER (314) 581-7570	E-MAIL ggrissom@sciengineering.com	DATE SHIPPED		
	SAMPLER (PLEASE PRINT) Dan Vielweber	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-NON AQUEOUS SOLID LCHT-LEACHATE OIL-OIL SO-SOIL SOL-SOLID			
	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								
MES-1	7-5-23	1643	X	X	DW	1	6	X	X			
MES-2	7-5-23	1645	X	X	DW	1	6	X	X			
MES-3	7-5-23	1646	X	X	DW	1	6	X	X			
MES-4	7-5-23	1648	X	X	DW	1	6	X	X			
MES-5	7-5-23	1651	X	X	DW	1	6	X	X			
MES-6	7-5-23	1653	X	X	DW	1	6	X	X			
MES-7	7-5-23	1703	X	X	DW	1	6	X	X			
MES-8	7-5-23	1706	X	X	DW	1	6	X	X			
MES-9	7-5-23	1710	X	X	DW	1	6	X	X			
MES-10	7-5-23	1711	X	X	DW	1	6	X	X			
MES-11	7-5-23	1712	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 RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: _____ PHONE # IF DIFFERENT FROM ABOVE: _____	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)  RELINQUISHED BY: (SIGNATURE)  RELINQUISHED BY: (SIGNATURE) 	DATE 7-6-23 TIME 8:00	RECEIVED BY: (SIGNATURE) 	DATE 7-6-23 TIME 10:00	8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>13.2</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N <input checked="" type="checkbox"/> SAMPLE(S) RECEIVED ON ICE Y OR N <input checked="" type="checkbox"/> SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N <input checked="" type="checkbox"/> DATE AND TIME TAKEN FROM SAMPLE BOTTLE _____
	DATE 7-6-23 TIME 12:05	RECEIVED BY: (SIGNATURE) 	DATE 7-7-23 TIME 1045	
	DATE 7-7-23 TIME 1530	RECEIVED BY: (SIGNATURE) 	DATE 7/7/23 TIME 1530	

10/1/12

10/1/12

10/1/12

10/1/12

10/1/12

10/1/12

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 ADDRESS 130 Point West Blvd CITY STATE ZIP St. Charles, MO 63301 CONTACT PERSON Glen Grissom	PROJECT NUMBER 2010-5012.2T	PROJECT LOCATION MES	PURCHASE ORDER #	3 ANALYSIS REQUESTED + + DW Pb Turb Check	4 (FOR LAB USE ONLY) LOGIN # <u>GG00878</u> LOGGED BY: <u>SAB</u> CLIENT: <u>SCI Engineering</u> PROJECT: <u>Drinking Water Lead</u> PROJ. MGR.: <u>Chenise Lambert-Sykes</u> CUSTODY SEAL #: _____
	PHONE NUMBER (314) 581-7570	E-MAIL ggrissom@sciengineering.com	DATE SHIPPED		
	SAMPLER (PLEASE PRINT) Dan Vielweber	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-NON AQUEOUS SOLID LCHT-LEACHATE OIL-OIL SO-SOIL SOL-SOLID			
	SAMPLER'S SIGNATURE <i>Dan Vielweber</i>				

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								
MES-12	7-5-23	1715	X	X	DW	1	6	X	X			
MES-13	7-5-23	1716	X	X	DW	1	6	X	X			
MES-14	7-5-23	1717	X	X	DW	1	6	X	X			
MES-15	7-5-23	1718	X	X	DW	1	6	X	X			
MES-16	7-5-23	1719	X	X	DW	1	6	X	X			
MES-17	7-5-23	1720	X	X	DW	1	6	X	X			
MES-18	7-5-23	1723	X	X	DW	1	6	X	X			
MES-19	7-5-23	1725	X	X	DW	1	6	X	X			
MES-20	7-5-23	1727	X	X	DW	1	6	X	X			
MES-21	7-5-23	1730	X	X	DW	1	6	X	X			
MES-22	7-5-23	1732	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) NORMAL RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)	DATE RESULTS NEEDED
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE	
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:	

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) <i>Dan Vielweber</i>	DATE 7-6-23	RECEIVED BY: (SIGNATURE) <i>W. H. K.</i>	DATE 7-6-23	8 COMMENTS: (FOR LAB USE ONLY)
	TIME 800		TIME 10:00	
	RELINQUISHED BY: (SIGNATURE) <i>W. H. K.</i>		DATE 7-6-23	
	TIME 12:05		TIME 1045	SAMPLE TEMPERATURE UPON RECEIPT <u>13.2</u> °C
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 7-7-23	RECEIVED BY: (SIGNATURE) <i>gracy</i>	DATE 7/7/23	CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N <u>N</u>
	TIME 1530		TIME 1530	SAMPLE(S) RECEIVED ON ICE Y OR N <u>N</u>
				SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N <u>N</u>
				DATE AND TIME TAKEN FROM SAMPLE BOTTLE _____

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


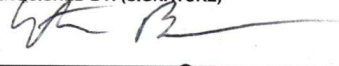
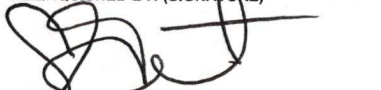
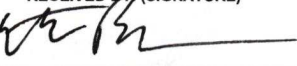

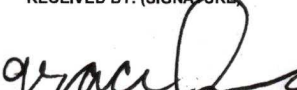
CHAIN OF CUSTODY RECORD
STATE WHERE SAMPLE COLLECTED MO

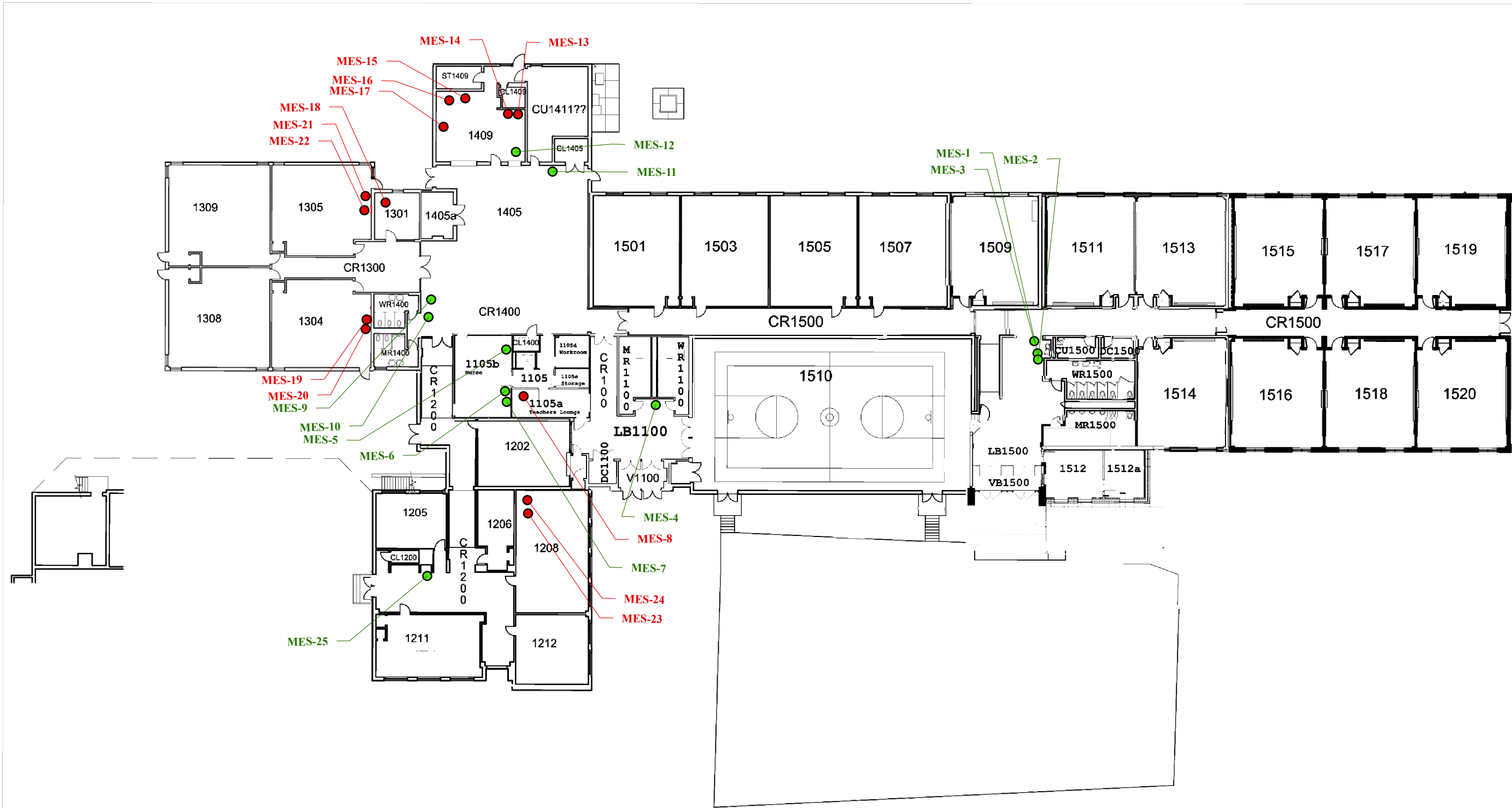
ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT SCI Engineering ADDRESS 130 Point West Blvd CITY STATE ZIP St. Charles, MO 63301 CONTACT PERSON Glen Grissom	PROJECT NUMBER 2010-5012.2T	PROJECT LOCATION MES	PURCHASE ORDER #	3 ANALYSIS REQUESTED + + DW Pb Turb Check	4 (FOR LAB USE ONLY) LOGIN # <u>6600878</u> LOGGED BY: <u>SAB</u> CLIENT: SCI Engineering PROJECT: Drinking Water Lead PROJ. MGR.: Chenise Lambert-Sykes CUSTODY SEAL #: _____
	PHONE NUMBER (314) 581-7570	E-MAIL ggrissom@sciengineering.com	DATE SHIPPED		
	SAMPLER (PLEASE PRINT) Dan Vielweber	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-NON AQUEOUS SOLID LCHT-LEACHATE OIL-OIL SO-SOIL SOL-SOLID			
	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	Check	REMARKS
			GRAB	COMP									
MES-23	7-5-23	1736	X	X	DW	1	6	X	X				
MES-24	7-5-23	1737	X	X	DW	1	6	X	X				
MES-25	7-5-23	1741	X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			X	X	DW	1	6	X	X				
			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) NORMAL RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE)	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.				
RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE	PROCCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____						
EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:							

7 RELINQUISHED BY: (SIGNATURE)  RELINQUISHED BY: (SIGNATURE)  RELINQUISHED BY: (SIGNATURE) 	DATE 7-6-23	RECEIVED BY: (SIGNATURE) 	DATE 7-6-23	8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <u>13.2</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 Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE _____
	TIME 800		TIME 10:00	
	DATE 7-6-23	RECEIVED BY: (SIGNATURE) 	DATE 7-7-23	
TIME 12:17		TIME 1045		
DATE 7-7-23	RECEIVED BY: (SIGNATURE) 	DATE 7-7-23		
TIME 1530		TIME 1530		



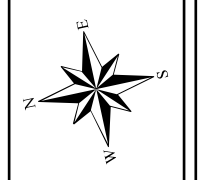
GENERAL NOTES/LEGEND

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

PLAN DATED 10/27/2005 BY HOENER ASSOCIATES, INC.
 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
 WASHINGTON SCHOOL DISTRICT
 MARTHASVILLE ELEMENTARY
 MARTHASVILLE, MISSOURI

LEAD DRINKING WATER SAMPLING PLAN



JOB NUMBER
2010-5012.2T

DATE
08/2023

DRAWN BY
JTM

CHECKED BY
BLL

FIGURE
1

