



DRINKING WATER SAMPLING

**BRENTWOOD SCHOOL DISTRICT
EARLY CHILDHOOD CENTER AND
MCGRATH ELEMENTARY SCHOOL
2350 ST. CLAIR AVENUE
BRENTWOOD, MISSOURI**

Prepared for:

**BRENTWOOD SCHOOL DISTRICT
BRENTWOOD, MISSOURI**

Prepared by:

**GEOTECHNOLOGY, LLC, DBA UES
ST. LOUIS, MISSOURI**

Date:

SEPTEMBER 11, 2024

Project No.:

J045430.01

**SAFETY
TEAMWORK
RESPONSIVENESS
INTEGRITY
VALUE
EXCELLENCE**



September 11, 2024

Mr. Andrew Hartnett
Brentwood School District
2221 High School Drive
Brentwood, Missouri 63144

Re: Drinking Water Sampling
Brentwood School District
Early Childhood Center and McGrath Elementary School
2350 St. Clair Avenue
Brentwood, Missouri
Project No. J045430.01

Dear Mr. Hartnett:

In accordance with our proposal P045430.01, dated March 1, 2024, Geotechnology, LLC, dba UES (UES), is pleased to provide this drinking water sampling report for the referenced project. Our scope of services included flushing and sampling of drinking water from potable water outlets, laboratory analysis of water samples, and a letter report.

SITE AND PROJECT DESCRIPTION

The subject property consists of the existing Brentwood School District (BSD) Early Childhood Center and McGrath Elementary School, located northeast of the intersection of Litzsinger Road and St. Clair Avenue in Brentwood, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

DRINKING WATER SAMPLING

RSMo 160.077 sets standards for lead concentrations in school drinking water, stating that each Missouri school shall provide drinking water with a lead concentration level below five (5) parts per billion (ppb). This Act requires schools to conduct the inventory, sampling, remediation, and monitoring at all potable drinking water outlets used or potentially used for drinking, food preparation, and cooking or cleaning utensils.

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) *3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities* manual, initial water flushing and sampling activities were conducted on July 28 and 29, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Copies of Mr. Lohrum's training certificate and lead license are included in Appendix A.



An inventory of potable drinking water outlets was provided to UES by BSD. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. A total of 46 water samples were collected. Copies of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, are included in Appendix B. Floor plans depicting approximate sample locations are included as Figures 1 and 2.

Using standard chain-of-custody procedures, the drinking water samples were submitted to Teklab, Inc. of Collinsville, Illinois, an independent, certified Missouri Department of Natural Resources (MDNR) Drinking Water and National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, for analysis of lead content via EPA Method 200.8: *Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry*.

RESULTS

Laboratory analyses of the submitted water samples did not detect the presence of lead at or above 5 ppb.

UES will not be able to represent that the site contains no lead-bearing water outlets beyond those detected or observed by UES during flushing and sampling activities. Copies of the drinking water analytical results are included in Appendix C.

RECOMMENDATIONS

Our recommendations are summarized below:

- If additional drinking water outlets not covered by this report should be identified or put into use, further sampling and testing should be conducted.

* * * * *

The following attachments are included in and complete this report:

Figure 1	- Drinking Water Sample Locations – Main Level
Figure 2	- Drinking Water Sample Locations – Second Level
Appendix A	- Certificate and License of Environmental Professional
Appendix B	- Drinking Water Sampling Forms
Appendix C	- Drinking Water Laboratory Data Sheets
Appendix D	- Limitations of Report

* * * * *



We appreciate the opportunity to provide our professional environmental consulting services to Brentwood School District on this project. If you have any questions or comments, please contact me at (314) 997-7440.

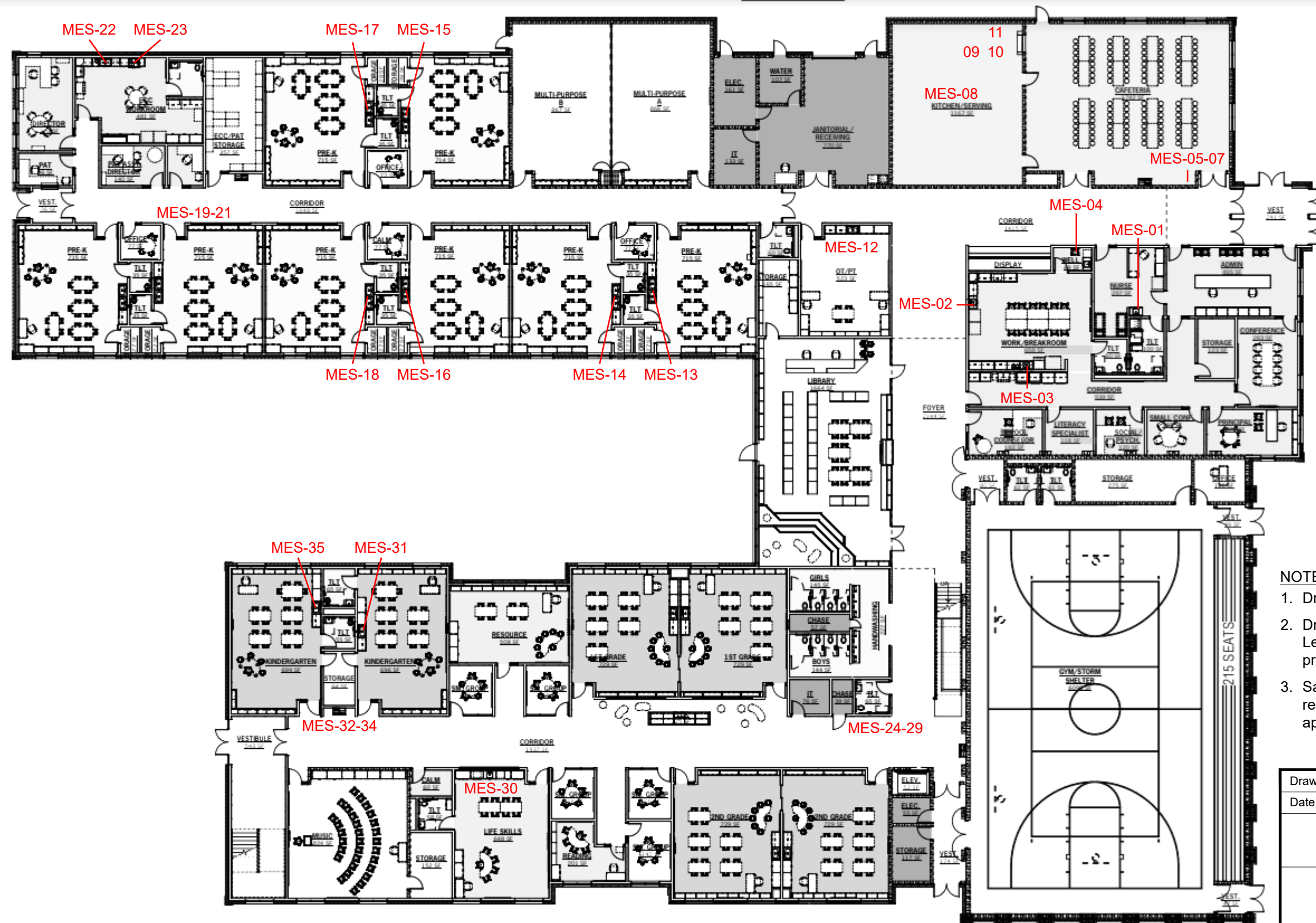
Very truly yours,

UES

A handwritten signature in blue ink that reads "Bradley J. Lohrum". The signature is fluid and cursive, with a long horizontal stroke at the end.

Bradley J. Lohrum
Project Manager

BJL/MSR:bjl/jsj



NOTES

1. Drawing not to scale.
2. Drawing adapted from "Floor Plan - Main Level - New McGrath Elementary & ECC", provided by the client, dated June 2, 2021.
3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJJ	Ck'd By: BJJ	App'vd By: MSR
Date: 9-10-24	Date: 9-10-24	Date: 9-10-24

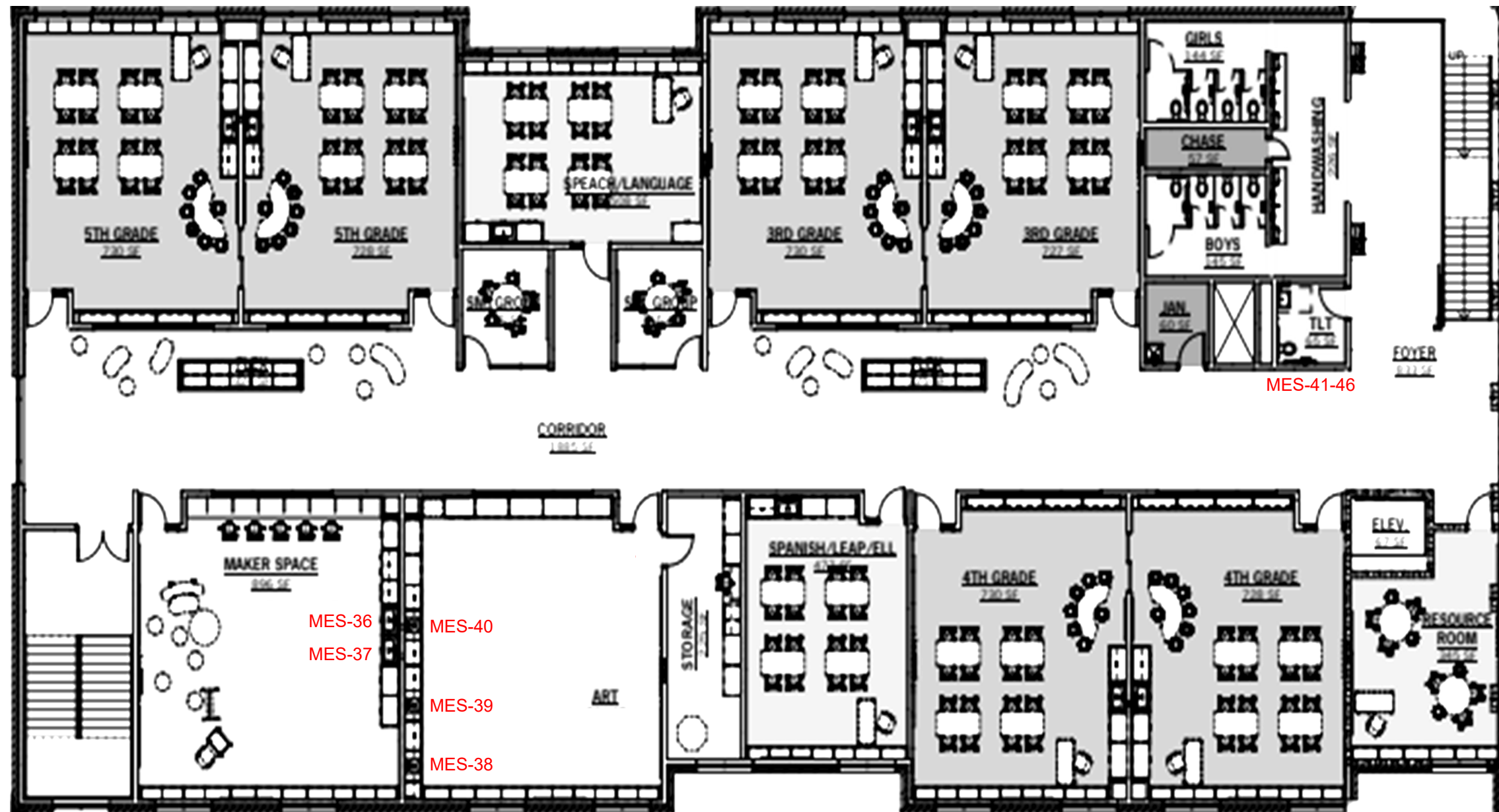


2350 St. Clair Avenue
Brentwood, Missouri

DRINKING WATER SAMPLE LOCATIONS - MAIN LEVEL

Project Number
J045430.01

FIGURE 1



NOTES

1. Drawing not to scale.
2. Drawing adapted from "Floor Plan - Second Level - New McGrath Elementary & ECC", provided by the client, dated June 2, 2021.
3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR
Date: 9-10-24	Date: 9-10-24	Date: 9-10-24
		
2350 St. Clair Avenue Brentwood, Missouri		
DRINKING WATER SAMPLE LOCATIONS - SECOND LEVEL		
Project Number J045430.01	FIGURE 2	



APPENDIX A

CERTIFICATE AND LICENSE OF ENVIRONMENTAL PROFESSIONAL

COLLEGE FOR
PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 12/12/2022 - 189152

Examination Date: 12/12/2022

CEUs: 0.8


Christopher C. King PhD

Director, Center for Environmental
Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104

(314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

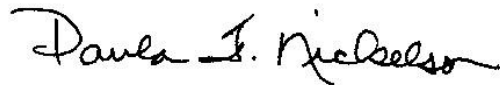
Bradley J. Lohrum

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor

Category of License

Issuance Date: **1/20/2023**
Expiration Date: **1/20/2025**
License Number: **230120-300006460**



Paula F. Nickelson
Acting Director
Department of Health and Senior Services

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

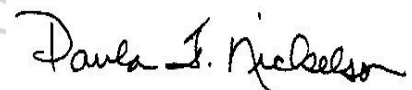
The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology LLC (UES)

**11816 Lackland Rd Suite 150
St. Louis, MO 63146**

Issuance Date: 2/28/2024
Expiration Date: 2/28/2026
License Number: 240229-4652



Paula F. Nickelson
Director
Department of Health and Senior Services



APPENDIX B

DRINKING WATER SAMPLING FORMS

**DRINKING WATER SAMPLING FORM**

Page 1 of 2

Project Name: Brentwood School DistrictProject Number: J045430.01Drinking Water SamplingAddress: 2350 St. Clair AvenueBuilding Name: ECC and McGrath ElementaryBrentwood, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MES-01	S	Rom 103 (Nurse)	BJL - 7/28/24 - 14:00	BJL - 7/28/24 - 23:30
MES-02	S	Room 111 - West	BJL - 7/28/24 - 14:03	BJL - 7/28/24 - 23:32
MES-03	S	Room 111 - South	BJL - 7/28/24 - 14:03	BJL - 7/28/24 - 23:33
MES-04	S	Room 113	BJL - 7/28/24 - 14:03	BJL - 7/28/24 - 23:33
MES-05	WF	Cafeteria - Left	BJL - 7/28/24 - 14:06	BJL - 7/28/24 - 23:35
MES-06	BF	Cafeteria	BJL - 7/28/24 - 14:06	BJL - 7/28/24 - 23:36
MES-07	WF	Cafeteria - Right	BJL - 7/28/24 - 14:06	BJL - 7/28/24 - 23:36
MES-08	S	Kitchen - Food Prep	BJL - 7/28/24 - 14:08	BJL - 7/28/24 - 23:38
MES-09	S	Kitchen - Dish Wash - Right	BJL - 7/28/24 - 14:08	BJL - 7/28/24 - 23:39
MES-10	S	Kitchen - Dish Wash - Left	BJL - 7/28/24 - 14:08	BJL - 7/28/24 - 23:39
MES-11	S	Kitchen - Dish Rinse	BJL - 7/28/24 - 14:08	BJL - 7/28/24 - 23:40
MES-12	S	Room 122	BJL - 7/28/24 - 14:12	BJL - 7/28/24 - 23:42
MES-13	S	Room 124	BJL - 7/28/24 - 14:14	BJL - 7/28/24 - 23:44
MES-14	S	Room 128	BJL - 7/28/24 - 14:16	BJL - 7/28/24 - 23:44
MES-15	S	Room 127	BJL - 7/28/24 - 14:17	BJL - 7/28/24 - 23:46
MES-16	S	Room 130	BJL - 7/28/24 - 14:18	BJL - 7/28/24 - 23:46
MES-17	S	Room 131	BJL - 7/28/24 - 14:19	BJL - 7/28/24 - 23:48
MES-18	S	Room 134	BJL - 7/28/24 - 14:19	BJL - 7/28/24 - 23:48
MES-19	WF	Hallway at Room 136 - Left	BJL - 7/28/24 - 14:21	BJL - 7/28/24 - 23:50
MES-20	BF	Hallway at Room 136	BJL - 7/28/24 - 14:21	BJL - 7/28/24 - 23:51
MES-21	WF	Hallway at Room 136 - Right	BJL - 7/28/24 - 14:21	BJL - 7/28/24 - 23:51
MES-22	S	Room 137	BJL - 7/28/24 - 14:24	BJL - 7/28/24 - 23:53
MES-23	ICE	Room 137	BJL - 7/28/24 - 14:24	BJL - 7/28/24 - 23:53
MES-24	WF	Hallway at Room 171 - Left	BJL - 7/28/24 - 14:30	BJL - 7/28/24 - 23:59
MES-25	BF	Hallway at Room 171 - Left	BJL - 7/28/24 - 14:30	BJL - 7/28/24 - 23:59

BF=Bottle Filling

S=Classroom/Other Sink

ICE=Ice Machine

WF=Water Fountain

**DRINKING WATER SAMPLING FORM**

Page 2 of 2

Project Name: Brentwood School District
Drinking Water Sampling
Building Name: ECC and McGrath Elementary

Project Number: J045430.01
Address: 2350 St. Clair Avenue
Brentwood, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MES-26	WF	Hallway at Rm. 171 - Left Center	BJL - 7/28/24 - 14:30	BJL - 7/28/24 - 23:59
MES-27	WF	Hallway at Rm. 171 - Right Center	BJL - 7/28/24 - 14:31	BJL - 7/28/24 - 23:59
MES-28	BF	Hallway at Rm. 171 - Right	BJL - 7/28/24 - 14:31	BJL - 7/29/24 - 24:00
MES-29	WF	Hallway at Rm. 171 - Right	BJL - 7/28/24 - 14:31	BJL - 7/29/24 - 24:00
MES-30	S	Room 180	BJL - 7/28/24 - 14:33	BJL - 7/29/24 - 24:02
MES-31	S	Room 185	BJL - 7/28/24 - 14:35	BJL - 7/29/24 - 24:03
MES-32	WF	Hallway at Rms. 185/187 - Left	BJL - 7/28/24 - 14:37	BJL - 7/29/24 - 24:05
MES-33	BF	Hallway at Rms. 185/187	BJL - 7/28/24 - 14:37	BJL - 7/29/24 - 24:06
MES-34	WF	Hallway at Rms. 185/187 - Right	BJL - 7/28/24 - 14:37	BJL - 7/29/24 - 24:06
MES-35	S	Room 187	BJL - 7/28/24 - 14:38	BJL - 7/29/24 - 24:08
MES-36	S	Room 218 - Left	BJL - 7/28/24 - 14:40	BJL - 7/29/24 - 24:10
MES-37	S	Room 218 - Right	BJL - 7/28/24 - 14:40	BJL - 7/29/24 - 24:11
MES-38	S	Room 216 - Left	BJL - 7/28/24 - 14:42	BJL - 7/29/24 - 24:13
MES-39	S	Room 216 - Center	BJL - 7/28/24 - 14:42	BJL - 7/29/24 - 24:14
MES-40	S	Room 216 - Right	BJL - 7/28/24 - 14:42	BJL - 7/29/24 - 24:14
MES-41	WF	Hallway at Room 208 - Left	BJL - 7/28/24 - 14:47	BJL - 7/29/24 - 24:19
MES-42	BF	Hallway at Room 208 - Left	BJL - 7/28/24 - 14:47	BJL - 7/29/24 - 24:19
MES-43	WF	Hallway at Rm. 208 - Left Center	BJL - 7/28/24 - 14:47	BJL - 7/29/24 - 24:20
MES-44	WF	Hallway at Rm. 208 - Right Center	BJL - 7/28/24 - 14:48	BJL - 7/29/24 - 24:20
MES-45	BF	Hallway at Rm. 208 - Right	BJL - 7/28/24 - 14:48	BJL - 7/29/24 - 24:20
MES-46	WF	Hallway at Rm. 208 - Right	BJL - 7/28/24 - 14:48	BJL - 7/29/24 - 24:20

BF=Bottle Filling

S=Classroom/Other Sink

ICE=Ice Machine

WF=Water Fountain



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

August 07, 2024

Brad Lohrum
Geotechnology, Inc.
11816 Lackland Road
St. Louis, MO 63146
TEL: (314) 997-7440
FAX: (314) 997-2067



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J045430.01

WorkOrder: 24072359

Dear Brad Lohrum:

TEKLAB, INC received 46 samples on 7/29/2024 2:10:00 PM 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: Geotechnology, Inc.

Work Order: 24072359

Client Project: J045430.01

Report Date: 07-Aug-24

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	8
Chain of Custody	Appended

Client: Geotechnology, Inc.**Work Order:** 24072359**Client Project:** J045430.01**Report Date:** 07-Aug-24**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.

LCSD 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: Geotechnology, Inc.

Work Order: 24072359

Client Project: J045430.01

Report Date: 07-Aug-24

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: Geotechnology, Inc.

Client Project: J045430.01

Work Order: 24072359

Report Date: 07-Aug-24

Cooler Receipt Temp: 22.8 °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: Geotechnology, Inc.**Work Order:** 24072359**Client Project:** J045430.01**Report Date:** 07-Aug-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Geotechnology, Inc.

Work Order: 24072359

Client Project: J045430.01

Report Date: 07-Aug-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24072359-001A	MES-01	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:08	07/28/2024 23:30
24072359-002A	MES-02	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:12	07/28/2024 23:32
24072359-003A	MES-03	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:09	07/28/2024 23:33
24072359-004A	MES-04	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:15	07/28/2024 23:33
24072359-005A	MES-05	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:19	07/28/2024 23:35
24072359-006A	MES-06	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:22	07/28/2024 23:36
24072359-007A	MES-07	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:46	07/28/2024 23:36
24072359-008A	MES-08	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:49	07/28/2024 23:38
24072359-009A	MES-09	NELAP		1.0	1.8	µg/L	1	07/31/2024 14:53	07/28/2024 23:39
24072359-010A	MES-10	NELAP		1.0	2.0	µg/L	5	08/06/2024 16:43	07/28/2024 23:39
24072359-011A	MES-11	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:56	07/28/2024 23:40
24072359-012A	MES-12	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 14:59	07/28/2024 23:42
24072359-013A	MES-13	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:03	07/28/2024 23:44
24072359-014A	MES-14	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:06	07/28/2024 23:44
24072359-015A	MES-15	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:30	07/28/2024 23:46
24072359-016A	MES-16	NELAP		1.0	2.5	µg/L	1	07/31/2024 15:33	07/28/2024 23:46
24072359-017A	MES-17	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:54	07/28/2024 23:48
24072359-018A	MES-18	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:37	07/28/2024 23:48
24072359-019A	MES-19	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:40	07/28/2024 23:50
24072359-020A	MES-20	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:43	07/28/2024 23:51
24072359-021A	MES-21	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:47	07/28/2024 23:51
24072359-022A	MES-22	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 15:50	07/28/2024 23:53
24072359-023A	MES-23	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:14	07/28/2024 23:53
24072359-024A	MES-24	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:17	07/28/2024 23:59
24072359-025A	MES-25	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:21	07/28/2024 23:59
24072359-026A	MES-26	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:24	07/28/2024 23:59
24072359-027A	MES-27	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:38	07/28/2024 23:59
24072359-028A	MES-28	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:27	07/29/2024 0:00
24072359-029A	MES-29	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:31	07/29/2024 0:00
24072359-030A	MES-30	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:34	07/29/2024 0:02
24072359-031A	MES-31	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 16:58	07/29/2024 0:03
24072359-032A	MES-32	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:01	07/29/2024 0:05
24072359-033A	MES-33	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:05	07/29/2024 0:06
24072359-034A	MES-34	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:22	07/29/2024 0:06
24072359-035A	MES-35	NELAP		1.0	1.1	µg/L	1	07/31/2024 17:08	07/29/2024 0:08
24072359-036A	MES-36	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:12	07/29/2024 0:10
24072359-037A	MES-37	NELAP		1.0	1.9	µg/L	1	07/31/2024 17:15	07/29/2024 0:11
24072359-038A	MES-38	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:18	07/29/2024 0:13
24072359-039A	MES-39	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:42	07/29/2024 0:14
24072359-040A	MES-40	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:46	07/29/2024 0:14
24072359-041A	MES-41	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:49	07/29/2024 0:19
24072359-042A	MES-42	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:52	07/29/2024 0:19
24072359-043A	MES-43	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:56	07/29/2024 0:20
24072359-044A	MES-44	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 17:59	07/29/2024 0:20
24072359-045A	MES-45	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 18:06	07/29/2024 0:20
24072359-046A	MES-46	NELAP		1.0	< 1.0	µg/L	1	07/31/2024 18:03	07/29/2024 0:20



Receiving Check List

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

Client: Geotechnology, Inc.

Work Order: 24072359

Client Project: J045430.01

Report Date: 07-Aug-24

Carrier: Craig McKinney

Received By: LEH

Completed by:

On:

29-Jul-24

Paul Schultz

Reviewed by:

On:

29-Jul-24

Ellie Hopkins

Pages to follow:

Chain of custody

5

Extra pages included

0

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 22.8

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. - pschultz - 7/29/2024 3:22:47 PM

CHAIN OF CUSTODY

pg. 1 of 5 Work order # 24072359

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

Client: Geotechnology, LLC
 Address: 11816 Lackland Road
 City / State / Zip: St. Louis, MO 63146
 Contact: Brad Lohrum Phone: (314) 997-7440
 E-Mail: blohrum@teamues.com Fax:

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE 22.8°C LTG# 5
 Preserved in: ☒ LAB ☒ FIELD FOR LAB USE ONLY
 Lab Notes

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No
 Are these samples known to be hazardous? ☐ Yes ☒ No
 Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Client Comments:

TEKLAB
Courier

Project Name/Number		Sample Collector's Name		MATRIX										INDICATE ANALYSIS REQUESTED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
J045430.01		Brad Lohrum		Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	DW - Lead E200.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Relinquished By	Date/Time	Received By	Date/Time
Brad Lohrum	7/29/24 12:45		7/29/24 1245
	7/29/24 1410		7/29/24 1410

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.teklabinco.com for terms and conditions.

Bottle Order: 80481



LT 7/29/24

pg. 2 of 5

Work order # 24072359

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

Client: <u>Geotechnology, LLC</u>	Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE <u> </u> °C LTG# <u> </u>
Address: <u>11816 Lackland Road</u>	Preserved in: ☐ LAB ☐ FIELD <u>FOR LAB USE ONLY</u>
City / State / Zip <u>St. Louis, MO 63146</u>	Lab Notes
Contact: <u>Brad Lohrum</u> Phone: <u>(314) 997-7440</u>	Client Comments:
E-Mail: <u>blohrum@teamues.com</u> Fax: <u> </u>	

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[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.

BottleOrder: 80481



pg. 3 of 5 Work order # 24072359

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

Client: <u>Geotechnology, LLC</u> Address: <u>11816 Lackland Road</u> City / State / Zip <u>St. Louis, MO 63146</u> Contact: <u>Brad Lohrum</u> Phone: <u>(314) 997-7440</u> E-Mail: <u>blohrum@teamues.com</u> Fax: _____	Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____ Preserved in: ☒ LAB ☒ FIELD <u>FOR LAB USE ONLY</u> Lab Notes Client Comments:
---	--

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[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.

BottleOrder: 80481



pg. 4 of 5 Work order # 24072359

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

Preserved in: ☒ LAB ☐ FIELD **FOR LAB USE ONLY**

Client Comments:

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[illegible]

BottleOrder: 80481



pg. 5 of 5 Work order # 24072359

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com	Fax:	

Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY

Lab Notes

Client Comments:

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

[illegible]

BottleOrder: 80481





APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

1. The Report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in documenting specific sample results. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of UES.
2. The sampling was performed in accordance with generally accepted practices of other consultants undertaking similar projects at the same time and in the same geographical area, and UES endeavored to observe that degree of care and skill ordinarily exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the project. UES does not and cannot represent that the site contains no hazardous waste or material, or other latent condition beyond that observed by UES.
3. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to UES' attention. UES will evaluate such information and, based on this evaluation, may modify the conclusions stated in this Report.
4. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of water samples. The identified presence of contaminated water is limited to the extent that they could be identified by instrumentation and sampling and testing. There is a potential for contaminated water above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.
5. If quantitative laboratory testing was performed as part of the assessment by an outside laboratory, UES has relied upon the data provided, and has not conducted an independent evaluation of the reliability to these data.
6. Chemical analyses have been performed for specific parameters during the course of this sampling as described in the text. Do not assume that a given analyte is not present at the site simply because it was not present at the test locations. The analyte may exist on the site where tests were not performed. In addition, it should be noted that additional chemical constituents not tested for during the sampling could be present in water at the site.