

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
NEW HAVEN ELEMENTARY SCHOOL
3301 NEW HAVEN ROAD
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES St. Louis, Missouri

Date:

SEPTEMBER 16, 2024

Project No.:

J044517.01





Environmental
Geotechnical Engineering
Materials Testing
Field Inspections & Code Compliance
Geophysical Technology

September 16, 2024

Mr. David Seamon District Project Manager Columbia Public Schools 1818 West Worley Street Columbia, Missouri 65203

Re: Water Sampling and Reporting Services

Columbia Public Schools

New Haven Elementary School

3301 New Haven Road Columbia, Missouri Project No. J044517.01

Dear Mr. Seamon:

In accordance with Columbia Public Schools' (CPS) Request for Proposal No. C-24043, dated October 10, 2023, Geotechnology, LLC, dba 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 Columbia Public Schools New Haven Elementary School, located north of New Haven Road between Lemone Industrial Boulevard and South Warren Drive in Columbia, 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 December 21, 2023, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor. Copies of training certificates and lead licenses for Messrs. Lohrum and Haefner are included in Appendix A.



An inventory of potable drinking water outlets was provided to UES by CPS. 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. 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. A floor plan depicting approximate sample locations is included as Figure 1.

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 detected the presence of lead at or above 5 ppb in the following samples.

TABLE 1
DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
NHE-10 / Room 116 Sink	6.8 ppb
NHE-16 / Room 201 Sink	5.4 ppb
NHE-21 / Room 302 – Left Sink	7.0 ppb
NHE-22 / Room 302 – Right Sink	7.6 ppb

UES personnel returned to the site on June 25 and 26, 2024, to resample the sinks located within Rooms 116 and 201 (NHE-10-2 and NHE-16-2). The results of the water sample analyses were below 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:

• It is our understanding that the remaining outlets identified in Table 1 that have not been resampled have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.

* * * * * *

The following attachments are included in and complete this report:

Figure 1 - Drinking Water Sample Locations

Appendix A - Certificates and Licenses of Environmental Professionals

Appendix B - Drinking Water Sampling Forms

Appendix C - Drinking Water Laboratory Data Sheets

Appendix D - Limitations of Report

* * * * * *

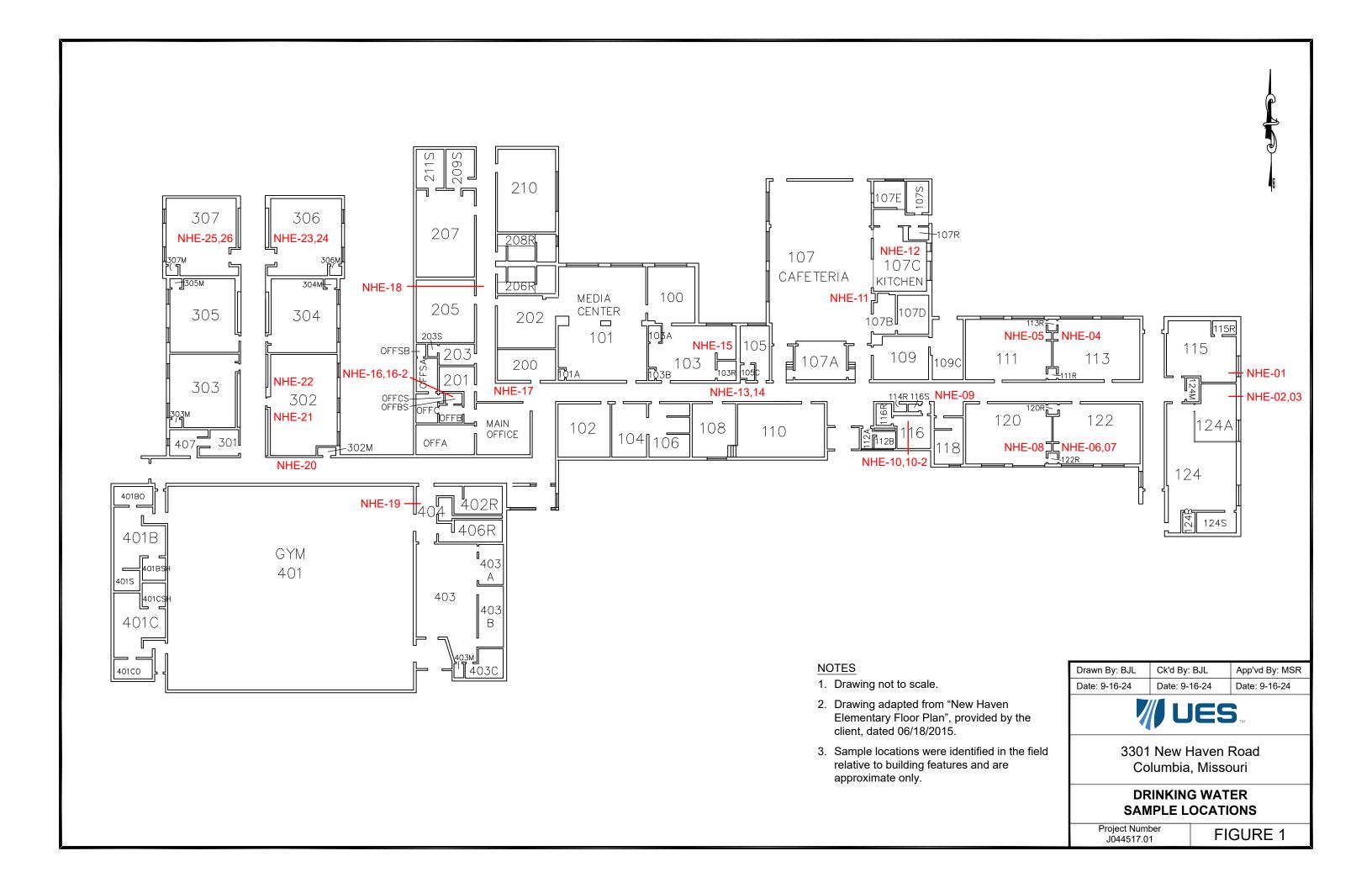
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

UES

Bradley J. Lohrum Project Manager

BJL/MSR:bjl/jsj





APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

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 sh.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.

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

Davea I. Nichel



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

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

Lead Risk Assessor Refresher

St. Louis, MO

Certificate #

CEET 325 3/6/2023

118035

Examination Date:

3/6/2023

CEUs: 0.8

)35

Rene Dulle, MBA, Director

Center for Environmental Education & Training

Center for Environmental Education and Training | 3545 Lafayette Ave., St. Louis, MO 63104 (314) 977-8256 |slu.edu/public-health-social-justice/centers-institutes/ceet.php

The training course has been accredited by the Missouri Dept, of Health and Senior Services, and by the Illinois Dept, of Public Health. Certificate expiration is 3 years from examination date for Illinois Dept, of Public Health.

LEAD OCCUPATION LICENSE REGISTRATION

Issued to

Robert J. Haefner

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: Expiration Date:

License Number:

3/28/2023

3/30/2025

150330-300004672

POPULI SUPREN

Paula F. Nickelson

Acting Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

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

11816 Lackland Road, Suite 150 St. Louis, MO 63146

Issuance Date: 2/8/2022 Expiration Date: 2/8/2024

License Number: 060208-0095



Donald G. Kauerauf Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

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

Davla J. Nichels

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102



APPENDIX B

DRINKING WATER SAMPLING FORMS





DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: New Haven Elementary School

Project Number: J044517.01

Address: 3301 New Haven Road

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
NHE-01	S	Room 115	RJH - 12/21/23 - 11:05	RJH - 12/21/23 - 22:52
NHE-02	В	Room 124A	RJH - 12/21/23 - 11:06	RJH - 12/21/23 - 22:53
NHE-03	S	Room 124A	RJH - 12/21/23 - 11:06	RJH - 12/21/23 - 22:53
NHE-04	S	Room 113	RJH - 12/21/23 - 11:10	RJH - 12/21/23 - 22:55
NHE-05	S	Room 111	RJH - 12/21/23 - 11:11	RJH - 12/21/23 - 22:57
NHE-06	S	Room 122	RJH - 12/21/23 - 11:13	RJH - 12/21/23 - 22:58
NHE-07	В	Room 122	RJH - 12/21/23 - 11:13	RJH - 12/21/23 - 22:58
NHE-08	S	Room 120	RJH - 12/21/23 - 11:15	RJH - 12/21/23 - 23:00
NHE-09	WF	Hallway at Room 118	RJH - 12/21/23 - 11:16	RJH - 12/21/23 - 23:01
NHE-10	S	Room 116	RJH - 12/21/23 - 11:19	RJH - 12/21/23 - 23:03
NHE-11	WF	Cafeteria	RJH - 12/21/23 - 11:22	RJH - 12/21/23 - 23:04
NHE-12	S	Kitchen	RJH - 12/21/23 - 11:24	RJH - 12/21/23 - 23:05
NHE-13	BF	Hallway at Room 105	RJH - 12/21/23 - 11:27	RJH - 12/21/23 - 23:07
NHE-14	WF	Hallway at Room 105	RJH - 12/21/23 - 11:27	RJH - 12/21/23 - 23:07
NHE-15	S	Room 103	RJH - 12/21/23 - 11:29	RJH - 12/21/23 - 23:09
NHE-16	S	Room 201	RJH - 12/21/23 - 11:33	RJH - 12/21/23 - 23:11
NHE-17	WF	Hallway at Room 200	RJH - 12/21/23 - 11:34	RJH - 12/21/23 - 23:12
NHE-18	WF	Hallway at Room 205	RJH - 12/21/23 - 11:36	RJH - 12/21/23 - 23:13
NHE-19	WF	Hallway at Gym	RJH - 12/21/23 - 11:38	RJH - 12/21/23 - 23:18
NHE-20	WF	Hallway at Room 302	RJH - 12/21/23 - 11:40	RJH - 12/21/23 - 23:15
NHE-21	S	Room 302 - Left	RJH - 12/21/23 - 11:40	RJH - 12/21/23 - 23:22
NHE-22	S	Room 302 - Right	RJH - 12/21/23 - 11:40	RJH - 12/21/23 - 23:22
NHE-23	S	Room 306	RJH - 12/21/23 - 11:42	RJH - 12/21/23 - 23:27
NHE-24	В	Room 306	RJH - 12/21/23 - 11:42	RJH - 12/21/23 - 23:27
NHE-25	S	Room 307	RJH - 12/21/23 - 11:44	RJH - 12/21/23 - 23:28

BF=Bottle Filling
B=Bubbler

FW=Filtered Water ICE=Ice Machine

S=Classroom/Other Sink WF=Water Fountain



Page 2 of 2



Project Name: Columbia Public Schools Water

Sampling and Reporting Services

Building Name: New Haven Elementary School

Project Number: J044517.01

Address: 3301 New Haven Road

Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
NHE-26	В	Room 307	RJH - 12/21/23 - 11:44	RJH - 12/21/23 - 23:28
NHE-10-2	S	Room 116	BJL - 6/25/24 - 21:44	BJL - 6/26/24 - 5:44
NHE-16-2	S	Room 201	BJL - 6/25/24 - 21:46	BJL - 6/26/24 - 5:46



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



January 11, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 23121855

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 12/22/2023 4:20:00 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

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



Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 23121855

Client Project: J044517.01

Report Date: 11-Jan-24

This reporting package includes the following:

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Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-Jan-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 Project: J044517.01

Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Report Date: 11-Jan-24

Qualifiers

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)

- # Unknown hydrocarbon
- RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level



Case Narrative

http://www.teklabinc.com/

Work Order: 23121855

Report Date: 11-Jan-24

Client: Geotechnology, Inc.

Cooler Receipt Temp: NA °C

Client Project: J044517.01

Locations

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-Jan-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	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: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-Jan-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	ALS BY ICPMS (TOTAL)						
23121855-001	A MHE-01	NELAP	1.0	< 1.0	µg/L	1	01/09/2024 21:40	12/22/2023 1:21
23121855-002	A MHE-02	NELAP	1.0	< 1.0	µg/L	1	01/09/2024 21:44	12/22/2023 1:21
23121855-003	BA MHE-03	NELAP	1.0	< 1.0	µg/L	1	01/09/2024 21:48	12/22/2023 1:23
23121855-004	A MHE-04	NELAP	1.0	1.9	µg/L	1	01/05/2024 14:00	12/22/2023 1:26
23121855-005	SA MHE-05	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 14:03	12/22/2023 1:27
23121855-006	SA MHE-06	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 14:07	12/22/2023 1:29
23121855-007	A MHE-07	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 14:11	12/22/2023 1:29
23121855-008	BA MHE-08	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 14:14	12/22/2023 1:29
23121855-009	A MHE-09	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 20:12	12/22/2023 1:32
23121855-010	A MHE-10	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 20:16	12/22/2023 1:32
23121855-011	A MHE-11	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 20:21	12/22/2023 1:34
23121855-012	A MHE-12	NELAP	1.0	< 1.0	µg/L	1	01/03/2024 20:25	12/22/2023 1:34
23121855-013	BA MHE-13	NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:30	12/22/2023 1:36
23121855-014	A MHE-14	NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:34	12/22/2023 1:36
23121855-015	SA MHE-15	NELAP	1.0	< 1.0	μg/L	1	01/03/2024 20:38	12/22/2023 1:36
23121855-016	SA NHE-01	NELAP	1.0	3.2	μg/L	1	01/05/2024 10:33	12/21/2023 22:52
23121855-017	'A NHE-02	NELAP	1.0	2.7	μg/L	1	01/05/2024 10:38	12/21/2023 22:53
23121855-018	A NHE-03	NELAP	1.0	< 1.0	μg/L	1	01/05/2024 10:42	12/21/2023 22:53
23121855-019		NELAP	1.0	2.1	μg/L	1	01/05/2024 10:46	12/21/2023 22:55
23121855-020		NELAP	1.0	1.5	μg/L	1	01/05/2024 10:51	12/21/2023 22:57
23121855-021		NELAP	1.0	2.4	μg/L	1	01/05/2024 10:55	12/21/2023 22:58
23121855-022		NELAP	1.0	2.2	μg/L	1	01/05/2024 11:25	12/21/2023 22:58
23121855-023		NELAP	1.0	1.7	μg/L	1	01/05/2024 11:29	12/21/2023 23:00
23121855-024		NELAP	1.0	1.1	μg/L	1	01/05/2024 10:59	12/21/2023 23:01
23121855-025		NELAP	1.0	6.8	µg/L	1	01/05/2024 11:34	12/21/2023 23:03
23121855-026		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 11:38	12/21/2023 23:04
23121855-027		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 11:42	12/21/2023 23:05
23121855-028		NELAP	1.0	2.1	μg/L	1	01/05/2024 11:47	12/21/2023 23:07
23121855-029		NELAP	1.0	2.3	μg/L	1	01/05/2024 11:51	12/21/2023 23:07
23121855-030		NELAP	1.0	< 1.0	μg/L	1	01/04/2024 17:33	12/21/2023 23:09
23121855-031		NELAP	1.0	5.4	μg/L	1	01/04/2024 17:38	12/21/2023 23:11
23121855-032		NELAP	1.0	< 1.0	μg/L	1	01/04/2024 17:42	12/21/2023 23:12
23121855-032		NELAP	1.0	< 1.0	μg/L	1	01/05/2024 9:33	12/21/2023 23:12
23121855-034		NELAP	1.0	< 1.0	μg/L	1	01/03/2024 3:04	12/21/2023 23:18
23121855-035		NELAP	1.0	1.3	μg/L	1	01/03/2024 3:34	12/21/2023 23:15
23121855-036		NELAP	1.0	7.0	μg/L	1	01/03/2024 2:34	12/21/2023 23:13
23121855-037		NELAP	1.0	7.6		1	01/04/2024 17:46	12/21/2023 23:22
23121855-038		NELAP			μg/L		01/03/2024 2:42	12/21/2023 23:27
23121855-039			1.0	4.0	μg/L	1	01/03/2024 2:42	12/21/2023 23:27
		NELAP	1.0	1.2	μg/L	1		
23121855-040		NELAP	1.0	3.1	μg/L	1	01/03/2024 2:51	12/21/2023 23:28
23121855-041		NELAP	1.0	1.6	μg/L	1	01/05/2024 12:09	12/21/2023 23:28
23121855-042		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:13	12/21/2023 9:31
23121855-043		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:17	12/21/2023 9:32
23121855-044		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:20	12/21/2023 9:33
23121855-045		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:24	12/21/2023 9:33
23121855-046		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:28	12/21/2023 9:33
23121855-047		NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:31	12/21/2023 9:35
23121855-048	BA PES-07	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:35	12/21/2023 9:36



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 23121855

Client Project: J044517.01 Report Date: 11-Jan-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
23121855-049	A PES-08	NELAP	1.0	1.4	µg/L	1	01/05/2024 12:39	12/21/2023 9:37
23121855-050	A PES-09	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 12:53	12/21/2023 9:37
23121855-051	A PES-10	NELAP	1.0	2.1	µg/L	1	01/05/2024 12:57	12/21/2023 9:38
23121855-052	A PES-11	NELAP	1.0	2.9	µg/L	1	01/05/2024 13:01	12/21/2023 9:39
23121855-053	A PES-12	NELAP	1.0	1.8	μg/L	1	01/05/2024 13:12	12/21/2023 9:40
23121855-054	A PES-13	NELAP	1.0	1.9	µg/L	1	01/05/2024 13:16	12/21/2023 9:41
23121855-055	A PES-14	NELAP	1.0	1.5	µg/L	1	01/05/2024 13:19	12/21/2023 9:42
23121855-056	A PES-15	NELAP	1.0	1.5	µg/L	1	01/05/2024 13:23	12/21/2023 9:42
23121855-057	A PES-16	NELAP	1.0	2.5	µg/L	1	01/05/2024 13:27	12/21/2023 9:43
23121855-058	A PES-17	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 13:41	12/21/2023 9:45
23121855-059	A PES-18	NELAP	1.0	< 1.0	µg/L	1	01/05/2024 13:52	12/21/2023 9:45
23121855-060	A PES-19	NELAP	1.0	3.7	µg/L	1	01/05/2024 13:56	12/21/2023 9:48



Receiving Check List

http://www.teklabinc.com/

Work Order: 23121855 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 11-Jan-24 Carrier: Brad Lohrum Received By: PWR Completed by: Mary E. Kemp Reviewed by: On: On: 26-Dec-23 26-Dec-23 Mary E Kemp Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? 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 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 12/26/2023 8:57:18 AM

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

CHAIN OF CUSTODY

pg. 8 of 2) Work order # 23/2/966

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

Client:	Geotechnology, Ir	nc.							s	am	ple	es o	n:	IC ■ IC	E [∭ BL	JE ICE		NO I	CE			0,		LTG	; #		
Address:	11816 Lackland F	Road							•							FIE					OR L	AB	USE	ONI	<u>LY</u>			
City / State	/ Zip St. Louis, MO 63	146							L	.ab	No	tes																
Contact:	Brad Lohrum	<u> </u>	Phone	: <u>'</u>	(314)	997-7	440		ı																			
E-Mail:	blohrum@geotechnology.	com	Fax:	_					CI	ier	it C	om	mei	nts:							· · · ·							
Are there any requirements in the comm		net on the reque	sted analysi	s?. if y	es, pl	Yes ease (1	- A T	·DIV	,				16.11	<u> </u>			. Voi	c DI		FCT	·rn			
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BottleOrder:

CHAIN OF CUSTODY pg. 9 of 21 Work order # 23/2/805

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

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Client:	Geotechnology, In													ICE				[<u>23]</u> N					°C		#		
Address:	11816 Lackland Re								Pre	eser	ved	in:		LAB		FIELD				<u>FOR</u>	LAB	USE	<u>: ON</u>	<u>LY</u>			
City / State / Z	-	46						_	Lal	o No	otes	;															
Contact: Bra	ad Lohrum		Phone:	(3	14) 99	7-7440) 	_																			
E-Mail: biol	hrum@geotechnology.c	om	Fax:						Clie	nt (on	ıme	nts	:													
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CHAIN OF CUSTODY

pg. |O of 2 | Work order # 23121855

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

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Client:		Geotechnology, in	C.										Sar	npl	es	on:		ICE		BLUE	ICE	繊	NO I	CE			°(C	LTG	#		
Address:		11816 Lackland R	oad										Pre	sei	vec	ni t	: 🕮	LAB	錃	FIELD)			F	OR L	AB I	<u>USE</u>	ONL	<u>.Y</u>			
City / State	/ Zip	St. Louis, MO 631	46										Lat	No.	otes	5																
Contact:	Brad Lo			Phone):	(3	14)	997-	744	0																						
E-Mail:	blohrun	n@geotechnology.c	om	Fax:								,	Clie	nt /	٠0,	am.	onto	· ·								•••••						
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CHAIN OF CUSTODY pg. 11 of 7) Work order #23121865

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

Client:	Geotechnology, la	nc.	•							5	San	npl	es	on:		ICE	BLUE ICE	NO I	CE			0	С	LTG	# #	
Address:	11816 Lackland F	Road															☐ FIELD			OR L	AB	USE	ONI	<u>_Y</u>		
City / State	/ Zip St. Louis, MO 63	146								l	Lab	No	ote:	s												
Contact:	Brad Lohrum	Phon	e:	(31	14) 9	97-7	'440																			
E-Mail:	blohrum@geotechnology.	com Fax:								C	lie	nt (Con	nm	enf	s:										
Are these sample	s known to be involved in ti	tigation? If yes, a surcharge	will a	vlage		Y	es	ス	No	1				••••												
Are these sample	s known to be hazardous?	If yes, include details of the	haza	ırd.			7																			
Are there any req limits in the comn	nent section. Yes	met on the requested analy └ No	SIS ?. 1	ır yes	, pie	ease	prove	ae																		
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July 11, 2024

Brad Lohrum Geotechnology, Inc. 11816 Lackland Road St. Louis, MO 63146

TEL: (314) 997-7440 FAX: (314) 997-2067

RE: J044517.01 **WorkOrder:** 24062353

Dear Brad Lohrum:

TEKLAB, INC received 57 samples on 6/28/2024 3:50:00 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: 24062353

Client Project: J044517.01

Report Date: 11-Jul-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	9
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Work Order: 24062353

Client Project: J044517.01 Report Date: 11-Jul-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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

Client Project: J044517.01 Report Date: 11-Jul-24

Qualifiers

- # Unknown hydrocarbonC RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
 - S Spike Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



Case Narrative

http://www.teklabinc.com/

Work Order: 24062353

Report Date: 11-Jul-24

Client: Geotechnology, Inc.
Client Project: J044517.01

Cooler Receipt Temp: NA °C

Locations

	Collinsville		Springfield	Kansas City					
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road				
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214				
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998				
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998				
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com				
	Collinsville Air		Chicago						
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.						
	Collinsville, IL 62234-7425		Downers Grove, IL 60515						
Phone	(618) 344-1004	Phone	(630) 324-6855						
Fax	(618) 344-1005	Fax							
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com						



Accreditations

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

Client Project: J044517.01 Report Date: 11-Jul-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



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

Client Project: J044517.01 Report Date: 11-Jul-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	DF	Date Analyzed	ed Date Collected					
EPA 600 4.1.4 Lead	4, 200.8 R5.4, META	ALS BY ICPMS (TOTAL)								
24062353-001	A SMS-01-2	NELAP	1.0	4.6	μg/L	1	07/03/2024 17:08	06/26/2024 15:07		
24062353-002	2A SMS-02-2	NELAP	1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08		
24062353-003	3A SMS-58-2	NELAP	1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11		
24062353-004	A SMS-59-2	NELAP	1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12		
24062353-005	5A SMS-60-2	NELAP	1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13		
24062353-006	6A SMS-61-2	NELAP	1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14		
24062353-007	'A SMS-62-2	NELAP	1.0	7.4	μg/L	1	07/08/2024 22:34	06/26/2024 15:15		
24062353-008	3A SMS-74-2	NELAP	1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18		
24062353-009	A PKE-66-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52		
24062353-010)A PKE-67-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52		
24062353-011	A PKE-70-2	NELAP	1.0	2.2	μg/L	1	07/03/2024 18:14	06/26/2024 15:55		
24062353-012	2A RBE-08-2	NELAP	1.0	1.3	μg/L	1	07/03/2024 18:18	06/26/2024 16:06		
24062353-013	BA RBE-11-2	NELAP	1.0	1.6	μg/L	1	07/03/2024 18:21	06/26/2024 16:07		
24062353-014	A FES-52-2	NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:25	06/26/2024 16:16		
24062353-015		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:29	06/26/2024 16:33		
24062353-016		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:33	06/26/2024 16:36		
24062353-017		NELAP	1.0	1.3	μg/L	1	07/08/2024 22:45	06/26/2024 16:51		
24062353-018		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 18:58	06/26/2024 16:54		
24062353-019		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54		
24062353-020		NELAP	1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17		
24062353-021		NELAP	1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21		
24062353-022		NELAP	1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21		
24062353-023		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22		
24062353-024		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22		
24062353-025		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 19:24	06/26/2024 17:44		
24062353-026		NELAP	1.0	3.7	μg/L	1	07/03/2024 19:28	06/26/2024 17:46		
24062353-027		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:01		
24062353-028		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03		
24062353-029		NELAP	1.0	13.2	μg/L	1	07/03/2024 19:57	06/26/2024 18:20		
24062353-030		NELAP	1.0	4.6	μg/L	1	07/03/2024 20:01	06/26/2024 18:35		
24062353-031		NELAP	1.0	2.1	μg/L	1	07/03/2024 20:04	06/26/2024 18:54		
24062353-032		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 20:08	06/26/2024 19:07		
24062353-033		NELAP	1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19		
24062353-034		NELAP	1.0	2.7	μg/L	1	07/03/2024 20:15	06/26/2024 19:32		
24062353-035		NELAP	1.0	< 1.0	µg/L	1	07/05/2024 20:16	06/26/2024 19:55		
24062353-036		NELAP	1.0	< 1.0	μg/L	1	07/03/2024 12:33	06/26/2024 19:56		
24062353-037		NELAP	1.0	1.1	μg/L	1	07/03/2024 20:45	06/26/2024 19:57		
24062353-037		NELAP	1.0	< 1.0		1	07/03/2024 20:48	06/26/2024 20:00		
24062353-030		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:07		
24062353-039					µg/L		07/03/2024 20:56	06/26/2024 20:10		
		NELAP	1.0	< 1.0	µg/L	1				
24062353-041 24062353-042		NELAP NELAP	1.0 1.0	< 1.0	µg/L	1 1	07/03/2024 20:59 07/05/2024 12:46	06/26/2024 20:10 06/26/2024 20:11		
24062353-042				< 1.0	µg/L					
		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11		
24062353-044		NELAP	1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13		
24062353-045		NELAP	1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39		
24062353-046		NELAP	1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43		
24062353-047		NELAP	1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10		
24062353-048	BA BHS-122-2	NELAP	1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:20		



Laboratory Results

http://www.teklabinc.com/

Client: Geotechnology, Inc. Work Order: 24062353

Client Project: J044517.01 Report Date: 11-Jul-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4 Lead	, 200.8 R5.4, META	LS BY ICPMS (TOTAL)					
24062353-049/	A BHS-125-2	NELAP	1.0	8.8	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050/	A BHS-126-2	NELAP	1.0	5.9	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051/	A BHS-130-2	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052/	A BHS-222	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053/	A BHS-223	NELAP	1.0	1.1	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054/	A BHS-224	NELAP	1.0	< 1.0	µg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055/	A BHS-225	NELAP	1.0	1.3	µg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056/	A BHS-226	NELAP	1.0	3.0	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057/	A BHS-227	NELAP	1.0	2.8	µg/L	1	07/03/2024 22:35	06/26/2024 21:15



Receiving Check List

http://www.teklabinc.com/

Work Order: 24062353 Client: Geotechnology, Inc. Client Project: J044517.01 Report Date: 11-Jul-24 Carrier: Craig McKinney Received By: NR Completed by: Reviewed by: On: On: 28-Jun-24 28-Jun-24 Paul Schultz Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C NA Type of thermal preservation? **~** Ice _ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No \square All samples received within holding time? Yes NA 🗸 Field Lab Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? 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. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗹 NPDES/CWA TCN interferences checked/treated in the field? Yes No \square 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 - 6/28/2024 4:49:24 PM

CHAIN OF CUSTODY pg. \leq of ℓ Work order # 29062353

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

Client:	Geotechnology, Ll	-c							_ 44		_					8 E			22	NO I					C		G#		<u> </u>
Address:	11816 Lackland R	11816 Lackland Road											Preserved in: LAB FIELD FOR LAB USE ONLY														į		
City / State	/ Zip St. Louis, MO 631											otes	S																
Contact:	Brad Lohrum																									100 110	33243311T		
E-Mail:	blohrum@teamues.com	Fax:							- [Clier	nt (Con	nmo	ent	s:			·						2					
Are these samples Are there any requ	known to be hazardous?	net on the requested analysi] Y∈		No P	3																		 		
Project	Name/Number	Sample Col	lect	tor's	Na	me				٨	ΝA	TRI	X					IND	ICA	TE	ANA	LYS	IS R	EQ	JES"	LED			
J04	4517.01	Brad Lo	ohr	um					1	말			S	ଦ୍ର	MG														
Result	s Requested	Billing Instructions	#:	and	уре		ontai	ners	⊒ ≧	除	S	S	eci:	Ino.	- Lead														
Standard	1-2 Day (100% Surcharge) 3 Day (50% Surcharge)		UNPRES	HNO3	֓֞֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֓֡	HCL	MeOH	NaHSC	Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	ad E200.8											***************************************			
Lab Use Only	Sample Identification	Date/Time Sampled	S	ω.	+	`		× ×		е			e	7	0.8					(company)			ļ			_			D
24662353-021	RBH-103	6/26/24 5:21	1							X					X												_		
-03-3-	1 (04	111	1							X					X					,							_		
-023	105	5:22	1							X					X											_			
-634	106	1	1							X					X														
-075	NHE-10-2	5:44	1							X					X						ļ		<u> </u>				\bot	_	
-6,2/A	NHE-16-2	5:46	1							X			<u> </u>		Х							\downarrow		$oldsymbol{oldsymbol{igl}}$					
7027	CRE-70	6:01	1							Х					X														
-028	CRE-71	6:03	1							Х					X														
~03ª	RAC-08-2	6:28	1							Х					Х														
~030	SBE-02-2	6:35	1							X					X														
	Relinquished By		_	ate/					1		_	×	_	R	eceiv	ed By							10	DZ /	játe/	lime		6.00	_
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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





APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING LIMITATIONS OF REPORT

- 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.