

WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS RIDGEWAY ELEMENTARY SCHOOL 107 EAST SEXTON ROAD COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS COLUMBIA, MISSOURI

Prepared by: GEOTECHNOLOGY, LLC, DBA UES ST. LOUIS, MISSOURI

Date: JULY 19, 2024

Project No.: **J044517.01**

SAFETY TEAMWORK RESPONSIVENESS INTEGRITY VALUE EXCELLENCE





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

July 19, 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 Ridgeway Elementary School 107 East Sexton 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 Ridgeway Elementary School, located northeast of the intersection of Grand Avenue and East Sexton Road 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 14 and 15, 2023, and January 3 and 4, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Robert Haefner, a Missouri-licensed lead risk assessor, and Mr. Seth Lamble, a Missouri-licensed lead inspector. Copies of training



certificates and lead licenses for Messrs. Lohrum, Haefner, and Lamble 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. A copy 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.

Sample Number / Location and Fixture Type	Results
RES-11 / Room 6C Sink	8.9 ppb
RES-13 / Room 9 Sink	6.5 ppb
RES-15 / Room 11 Sink	15.4 ppb
RES-21 / Room 13 Sink	10.8 ppb
RES-26 / Room 16 Sink	27.3 ppb
RES-27 / Room 27 Bubbler	5.3 ppb

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

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 outlets identified in Table 1 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.

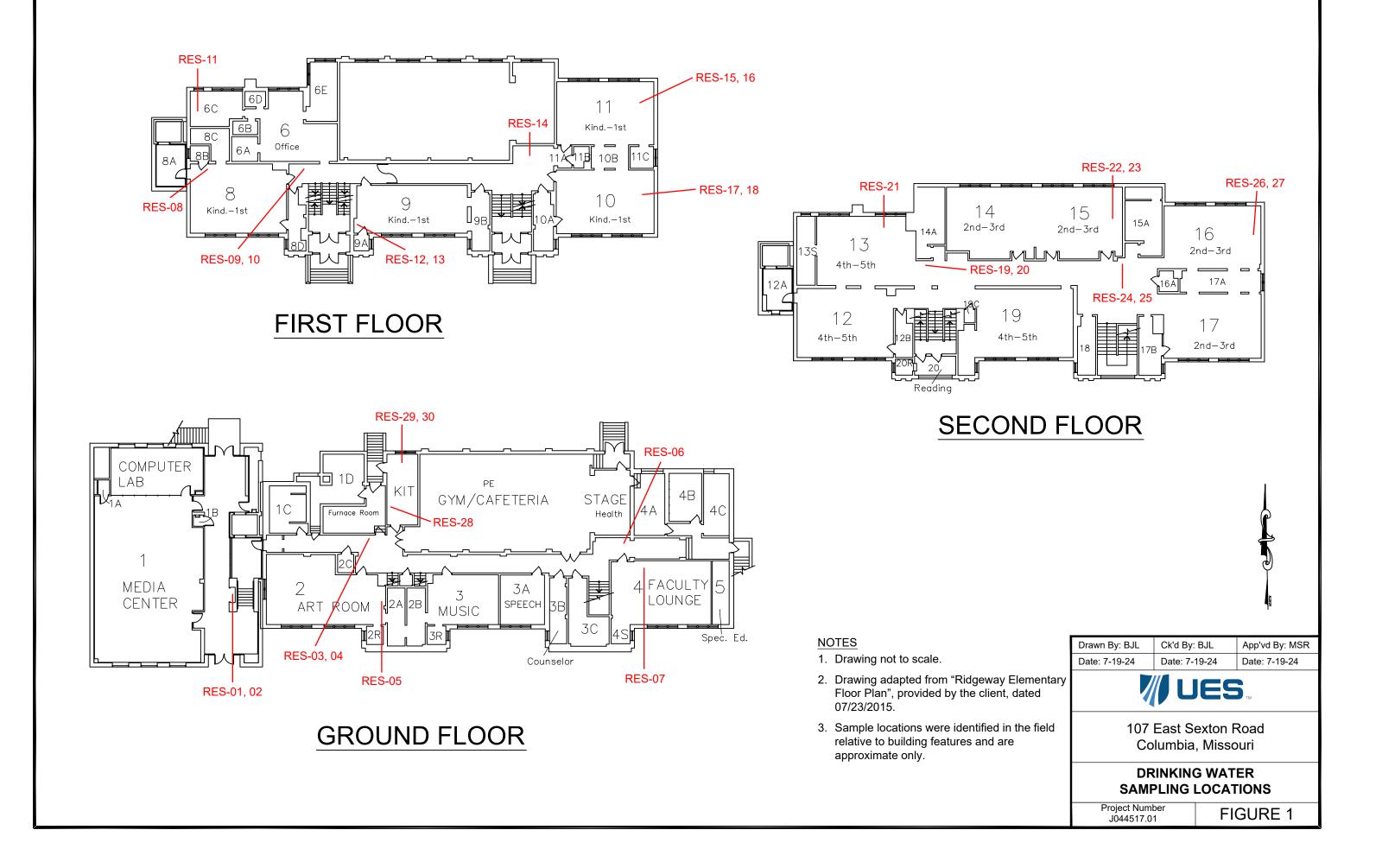
Very truly yours,

UES

Broolly John

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

Daven I. Nichel

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

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



SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover PI, St. Louis, MO 63116

has attended <u>8</u> contact hours of training and successfully passed examination for

Lead Risk Assessor Refresher

St. Louis, MO

118035

Certificate # CEET 325 3/6/2023 Bramination Date: 3/6/2023 CEUs: 0.8

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.

STATE OF MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

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: 3/28 Expiration Date: 3/30 License Number: 150

3/28/2023 3/30/2025 150330-300004672

1. r Javes

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

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

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Seth Lamble

12040 Chaparral Drive, Bridgeton, Missouri 63044

has attended

8 contact hours of training and successfully passed an examination

Lead Inspector Refresher

St. Louis, MO

Certificate # CEET 315 - 1/4/2022 - 118633 Examination Date: 1/4/2022 CEUs: 0.8

Kine 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:

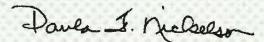
Seth P. Lamble

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 Inspector Category of License

Issuance Date: Expiration Date: License Number:

4/25/2022 4/25/2024 160425-300004897



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

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

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 11816 Lackland Road, Suite 150

St. Louis, MO 63146

Issuance Date: Expiration Date: License Number: 2/8/2022 2/8/2024 060208-0095



Donal A. Rauna

Donald G. Kauerauf Director Department of Health and Senior Services

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



APPENDIX B

DRINKING WATER SAMPLING FORMS



Project Name: Columbia Public Schools Water Sampling and Reporting Services Building Name: Ridgeway Elementary School Project Number: J044517.01

Address: 107 East Sexton Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RES-01	WF	Ground Floor at Media Ctr Left	SPL - 12/14/23 - 17:23	RJH - 12/15/23 - 7:11
RES-02	WF	Ground Floor at Media Ctr Right	SPL - 12/14/23 - 17:23	SPL - 12/15/23 - 7:11
RES-03	WF	Ground Floor at Kitchen - Left	RJH - 12/14/23 - 17:25	RJH - 12/15/23 - 7:13
RES-04	WF	Ground Floor at Kitchen - Right	RJH - 12/14/23 - 17:25	SPL - 12/15/23 - 7:13
RES-05	S	Art Room	RJH - 12/14/23 - 17:30	RJH - 12/15/23 - 7:13
RES-06	WF	Ground Floor at Faculty Lounge	RJH - 12/14/23 - 17:33	SPL - 12/15/23 - 7:15
RES-07	S	Faculty Lounge	SPL - 12/14/23 - 17:34	RJH - 12/15/23 - 7:15
RES-08	WF	Room 8	SPL - 12/14/23 - 17:36	SPL - 12/15/23 - 7:17
RES-09	WF	Hallway at Office	SPL - 12/14/23 - 17:40	RJH - 12/15/23 - 7:17
RES-10	BF	Hallway at Office	RJH - 12/14/23 - 17:40	RJH - 12/15/23 - 7:17
RES-11	S	Room 6C	SPL - 12/14/23 - 17:41	RJH - 12/15/23 - 7:20
RES-12	В	Room 9	SPL - 12/14/23 - 17:43	RJH - 12/15/23 - 7:22
RES-13	S	Room 9	SPL - 12/14/23 - 17:43	SPL - 12/15/23 - 7:22
RES-14	WF	Hallway at Room 11	SPL - 12/14/23 - 17:45	RJH - 12/15/23 - 7:24
RES-15	S	Room 11	RJH - 12/14/23 - 17:48	SPL - 12/15/23 - 7:26
RES-16	В	Room 11	RJH - 12/14/23 - 17:48	SPL - 12/15/23 - 7:26
RES-17	В	Room 10	RJH - 12/14/23 - 17:50	RJH - 12/15/23 - 7:26
RES-18	S	Room 10	RJH - 12/14/23 - 17:50	RJH - 12/15/23 - 7:26
RES-19	WF	Hallway at Room 13	SPL - 12/14/23 - 17:56	RJH - 12/15/23 - 7:29
RES-20	BF	Hallway at Room 13	SPL - 12/14/23 - 17:56	RJH - 12/15/23 - 7:29
RES-21	S	Room 13	SPL - 12/14/23 - 17:59	RJH - 12/15/23 - 7:32
RES-22	В	Room 15	RJH - 12/14/23 - 18:04	SPL - 12/15/23 - 7:34
RES-23	S	Room 15	RJH - 12/14/23 - 18:04	RJH - 12/15/23 - 7:34
RES-24	WF	Hallway at Room 15 - Left	SPL - 12/14/23 - 18:04	SPL - 12/15/23 - 7:36
RES-25	WF	Hallway at Room 15 - Right	SPL - 12/14/23 - 18:04	RJH - 12/15/23 - 7:36

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine S=Classroom/Other Sink WF=Water Fountain



Project Name: Columbia Public Schools Water Sampling and Reporting Services Building Name: Ridgeway Elementary School Project Number: J044517.01

Address: 107 East Sexton Road Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
RES-26	S	Room 16	SPL - 12/14/23 - 18:06	SPL - 12/15/23 - 7:38
RES-27	В	Room 16	SPL - 12/14/23 - 18:06	SPL - 12/15/23 - 7:38
RES-28	S	Kitchen - Food Prep	BJL - 1/3/24 - 21:20	BJL - 1/4/24 - 6:51
RES-29	S	Kitchen - Dish Wash - Left	BJL - 1/3/24 - 21:20	SPL - 1/4/24 - 6:51
RES-30	S	Kitchen - Dish Wash - Right	BJL - 1/3/24 - 21:20	SPL - 1/4/24 - 6:51

BF=Bottle Filling B=Bubbler

FW=Filtered Water ICE=Ice Machine S=Classroom/Other Sink WF=Water Fountain



APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS



http://www.teklabinc.com/

December 29, 2023

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

RE: J044517.01



WorkOrder: 23121318

Dear Brad Lohrum:

TEKLAB, INC received 43 samples on 12/15/2023 4:40:00 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.

Client Project: J044517.01

Work Order: 23121318 Report Date: 29-Dec-23

This reporting package includes the following:

Cover Letter	1
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Receiving Check List	8
Chain of Custody	Appended



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 23121318

Report Date: 29-Dec-23

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
- DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
- DNI Did not ignite
- DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
- ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- IDPH IL Dept. of Public Health
- LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
- 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.

Client Project: J044517.01

Work Order: 23121318 Report Date: 29-Dec-23

Qualifiers

- # Unknown hydrocarbon
- C 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: 23121318 Report Date: 29-Dec-23

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: NA °C

		Locations		
Collinsville		Springfield		Kansas City
5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
Collinsville Air		Chicago		
5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
Collinsville, IL 62234-7425		Downers Grove, IL 60515		
(618) 344-1004	Phone	(630) 324-6855		
(618) 344-1005	Fax			
EHurley@teklabinc.com	Email	arenner@teklabinc.com		
	5445 Horseshoe Lake Road Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005 jhriley@teklabinc.com Collinsville Air 5445 Horseshoe Lake Road Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005	5445 Horseshoe Lake Road Address Collinsville, IL 62234-7425 Phone (618) 344-1004 Phone (618) 344-1005 Fax jhriley@teklabinc.com Email Collinsville Air	Collinsville Springfield 5445 Horseshoe Lake Road Address 3920 Pintail Dr Collinsville, IL 62234-7425 Springfield, IL 62711-9415 (618) 344-1004 Phone (217) 698-1004 (618) 344-1005 Fax (217) 698-1005 jhriley@teklabinc.com Email KKlostermann@teklabinc.com Collinsville Air Chicago 5445 Horseshoe Lake Road Address 1319 Butterfield Rd. Collinsville, IL 62234-7425 Downers Grove, IL 60515 (618) 344-1004 Phone (630) 324-6855 (618) 344-1005 Fax	Collinsville Springfield Address 5445 Horseshoe Lake Road Address 3920 Pintail Dr Address Collinsville, IL 62234-7425 Springfield, IL 62711-9415 Address (618) 344-1004 Phone (217) 698-1004 Phone (618) 344-1005 Fax (217) 698-1005 Fax jhriley@teklabinc.com Email KKlostermann@teklabinc.com Email Collinsville Air Chicago Email S19 Butterfield Rd. Collinsville, IL 62234-7425 Downers Grove, IL 60515 Fax (618) 344-1004 Phone (630) 324-6855 Fax



Accreditations

Client: Geotechnology, Inc.

Client Project: J044517.01

http://www.teklabinc.com/

Work Order: 23121318 Report Date: 29-Dec-23

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



Laboratory Results

http://www.teklabinc.com/

Work Order: 23121318

Report Date: 29-Dec-23

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1. Lead	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
23121318-001	IA TMP-18	NELAP	1.0	2.4	µg/L	1	12/21/2023 16:20	12/15/2023 6:47
23121318-002	2A RES-01	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:23	12/15/2023 7:11
23121318-003	BA RES-02	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:27	12/15/2023 7:11
23121318-004	IA RES-03	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 16:24	12/15/2023 7:13
23121318-005	5A RES-04	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:32	12/15/2023 7:13
23121318-006	SA RES-05	NELAP	1.0	1.1	µg/L	1	12/21/2023 5:36	12/15/2023 7:13
23121318-007	A RES-06	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:41	12/15/2023 7:15
23121318-008	BA RES-07	NELAP	1.0	1.7	µg/L	1	12/21/2023 5:45	12/15/2023 7:15
23121318-009	A RES-08	NELAP	1.0	3.0	µg/L	1	12/21/2023 5:50	12/15/2023 7:17
23121318-010	A RES-09	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:54	12/15/2023 7:17
23121318-011	IA RES-10	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 5:59	12/15/2023 7:17
23121318-012	2A RES-11	NELAP	1.0	8.9	µg/L	1	12/21/2023 6:03	12/15/2023 7:20
23121318-013	BA RES-12	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 7:08	12/15/2023 7:22
23121318-014	A RES-13	NELAP	1.0	6.5	µg/L	1	12/21/2023 6:36	12/15/2023 7:22
23121318-015	5A RES-14	NELAP	1.0	< 1.0	µg/L	1	12/21/2023 6:41	12/15/2023 7:24
23121318-016	SA RES-15	NELAP	1.0	15.4	µg/L	1	12/21/2023 6:45	12/15/2023 7:26
23121318-017	A RES-16	NELAP	1.0	3.3	µg/L	1	12/21/2023 6:50	12/15/2023 7:26
23121318-018	BA RES-17	NELAP	1.0	< 1.0	μg/L	1	12/21/2023 6:54	12/15/2023 7:26
23121318-019	A RES-18	NELAP	1.0	< 1.0	μg/L	1	12/21/2023 6:59	12/15/2023 7:26
23121318-020		NELAP	1.0	< 1.0	μg/L	1	12/21/2023 7:03	12/15/2023 7:29
23121318-021		NELAP	1.0	< 1.0	μg/L	1	12/21/2023 7:55	12/15/2023 7:29
23121318-022	2A RES-21	NELAP	1.0	10.8	µg/L	1	12/21/2023 8:00	12/15/2023 7:32
23121318-023		NELAP	1.0	2.5	μg/L	1	12/21/2023 8:04	12/15/2023 7:34
23121318-024		NELAP	1.0	1.8	μg/L	1	12/21/2023 8:09	12/15/2023 7:34
23121318-025		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 8:13	12/15/2023 7:36
23121318-026		NELAP	1.0	< 1.0	μg/L	1	12/21/2023 8:18	12/15/2023 7:36
23121318-027		NELAP	1.0	27.3	µg/L	1	12/21/2023 8:27	12/15/2023 7:38
23121318-028		NELAP	1.0	5.3	µg/L	1	12/21/2023 8:23	12/15/2023 7:38
23121318-029		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 9:04	12/15/2023 7:55
23121318-030		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 9:08	12/15/2023 7:55
23121318-031		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 9:13	12/15/2023 7:55
23121318-032		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 9:17	12/15/2023 7:57
23121318-033		NELAP	1.0	3.7	µg/L	1	12/21/2023 9:22	12/15/2023 8:01
23121318-034		NELAP	1.0	< 1.0		1	12/21/2023 9:57	12/15/2023 8:01
23121318-035		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 10:29	12/15/2023 8:04
23121318-036		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 10:23	12/15/2023 8:04
23121318-037			1.0		µg/L		12/21/2023 10:02	12/15/2023 8:04
23121318-038		NELAP		< 1.0	µg/L	1	12/21/2023 10:06	
		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 10:11	12/15/2023 8:07
23121318-039		NELAP	1.0	< 1.0	µg/L	1		12/15/2023 8:09
23121318-040		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 10:20	12/15/2023 8:15
23121318-041		NELAP	1.0	< 1.0	µg/L	1	12/21/2023 10:25	12/15/2023 8:29
23121318-042		NELAP	5.0	111	µg/L	5	12/21/2023 16:52	12/15/2023 8:29
23121318-043	BA AAB-15	NELAP	1.0	56.8	µg/L	5	12/28/2023 8:32	12/15/2023 8:30



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 23121318 Report Date: 29-Dec-23

Completed by: On: 15-Dec-23 Hannah Walker		Received By: MEH Reviewed by: On: 18-Dec-23	K Elled Hopkins	ens
Pages to follow: Chain of custody 5	Extra pages inc	luded 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C NA
Type of thermal preservation?	None 🗸		Blue Ice	Dry Ice
Chain of custody present?	Yes V			
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 complian 0.1°C - 6.0°C, or when samples are received on ice the same				
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 n	nust be detailed	l below or on the	COC.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - hwalker - 12/15/2023 5:10:57 PM

CHAIN OF CUSTODY

pg. 6 of 10 Work order # 23121318

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

Client:		Geotechnology, L	LC									T	Sar	npl	es	on:	讈	ICE	1	BLU	E ICE	Ň	NOI	CE		NP	ς_ ΄	°C	LTC	G#		
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City / State	/ Zin	St. Louis, MO 63	146										Lat																			7
Contact:	Brad L	.ohrum		Pho	ne:	(3	(14)	997	-744	40						_																
E-Mail:	blohru	m@teamues.com		Fax:									Clie	nt (` or	om	ant															à n a
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Are there any req	uired re	porting limits to be r	net on th	e requested anal	vsis?	. If ye	s, p	leas	e pr	ovide	•																					
		tion. 🛛 Yes 🗴	(No																													89
Project Name/Number Sample Collector's Name														MA'	TR	<u>х</u>					INL		TE		LYS	SIS R	EQL	JEST	TED			
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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.



CHAIN OF CUSTODY pg. 7 of 10° Work order # 23121318

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

Client:													Sar	npl	es	on:	腏	ICE	諁	BLU	E ICE	 NO	CE				°C	1	LTG#	<u></u>		
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City / State	/ Zip	St. Louis, MO 631	46										Lat	o No	ote	s																
Contact:	Brad L			Pho	ne:	(314) 997	7-744)																					10000	
E-Mail:	blohru	m@teamues.com		Fax:		_							Clie	nt (Cor	nme	ent	s:					-	•								
Are these sample	s know	n to be involved in lit	igation? I	If yes, a surchard	e will	app	ly		Yes	X	_No																					
Are these sample	s know	n to be hazardous?	[] Yes	KNo			-			-																						
Are there any rec limits in the comr	uired re	porting limits to be m tion.	jet on the	e requested anal	/sis?	lf ye	es, p	leas	e pro	vide																						
	mits in the comment section. Yes X No Project Name/Number Sample Collector's Name														TR	X		I			INF	TF	ΔΝΔ		SIS I	REC	UF	STE	D			
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Other		ay (50% Surcharge)			UNP	IZ	Nac	H2S	H		9	e U O	ξ	Ě	lge	Xa	dwa	d m														
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CHAIN OF CUSTODY pg. \Im of O Work order # <u>23121318</u>

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

Client:	Client: Geotechnology, LLC Address: 11816 Lackland Road													npl	es	on:	鱵	ICE	1] BLU	E ICE	**	NO I	CE			0	°C	LTG	¥				
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Contact:	-	Lohrum		Phone	e:	(3	314)	997-	7440																							14M6-1-1-1		
E-Mail:	blohr	um@teamues.com		Fax:									Clie	nt (Cor	nme	ente	s:														-		
Are these sam	oles knov	wn to be involved in lit	igation? If yes	s, a surcharge	will	appi	у		Yes	X	No																					1		
		wn to be hazardous?		-						• •	•																							
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1044517.01 Brad Lohrum													T	T	Γ						[T	T	T	T	1	<u> </u>		1		
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http://www.teklabinc.com/

January 30, 2024

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

RE: J044517.01



WorkOrder: 24010446

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/5/2024 1:15:00 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.

Client Project: J044517.01

Work Order: 24010446 Report Date: 30-Jan-24

This reporting package includes the following:

Cover Letter	4
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.

Client Project: J044517.01

Work Order: 24010446

Report Date: 30-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)



Definitions

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24010446

Report Date: 30-Jan-24

Qualifiers

- # Unknown hydrocarbon
- C 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: 24010446 Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Cooler Receipt Temp: N/A °C

	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							



Client: Geotechnology, Inc.

Accreditations

http://www.teklabinc.com/

Work Order: 24010446 Report Date: 30-Jan-24

Client Project: J044517.01

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/

Work Order: 24010446

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
24010446-001	A WBE-50	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 6:32	01/04/2024 6:11
24010446-002	A WBE-51	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 5:34	01/04/2024 6:13
24010446-003	A WBE-52	NELAP	1.0	1.7	µg/L	1	01/20/2024 6:03	01/04/2024 6:13
24010446-004	A WBE-53	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 6:07	01/04/2024 6:14
24010446-005	A WBE-54	NELAP	1.0	1.3	µg/L	1	01/20/2024 7:30	01/04/2024 6:14
24010446-006	A WBE-55	NELAP	1.0	3.0	µg/L	5	01/19/2024 13:23	01/04/2024 6:17
24010446-007	A WBE-56	NELAP	1.0	1.4	µg/L	1	01/20/2024 7:59	01/04/2024 6:17
24010446-008	A WBE-57	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 8:03	01/04/2024 6:19
24010446-009	A WBE-58	NELAP	1.0	< 1.0	µg/L	5	01/19/2024 13:38	01/04/2024 6:20
24010446-010	A WBE-59	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 8:07	01/04/2024 6:20
24010446-011	A WBE-60	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 8:28	01/04/2024 6:21
24010446-012	A WBE-61	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 8:12	01/04/2024 6:21
24010446-013	A WBE-62	NELAP	1.0	< 1.0	µg/L	5	01/19/2024 13:41	01/04/2024 6:22
24010446-014	A WBE-63	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 8:16	01/04/2024 6:22
24010446-015	A WBE-64	NELAP	1.0	13.1	µg/L	5	01/19/2024 13:45	01/04/2024 6:24
24010446-016	A WBE-65	NELAP	1.0	1.7	µg/L	5	01/24/2024 21:32	01/04/2024 6:24
24010446-017	A BSES-24	NELAP	1.0	2.1	µg/L	1	01/20/2024 8:20	01/04/2024 6:40
24010446-018	A BSES-25	NELAP	1.0	2.9	µg/L	1	01/20/2024 8:24	01/04/2024 6:40
24010446-019	A BSES-26	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:22	01/04/2024 6:40
24010446-020	A RES-28	NELAP	1.0	1.6	µg/L	1	01/20/2024 8:53	01/04/2024 6:51
24010446-021	A RES-29	NELAP	1.0	2.1	µg/L	1	01/20/2024 8:57	01/04/2024 6:51
24010446-022	A RES-30	NELAP	1.0	2.1	µg/L	1	01/20/2024 9:01	01/04/2024 6:51
24010446-023	A ECDC-01	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:05	01/04/2024 7:12
24010446-024	A ECDC-02	NELAP	1.0	< 1.0	µg/L	1	01/20/2024 9:10	01/04/2024 7:12
24010446-025	A ECDC-03	NELAP	1.0	1.7	µg/L	1	01/25/2024 17:32	01/04/2024 7:14
24010446-026	A ECDC-04	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 17:37	01/04/2024 7:14
24010446-027	A ECDC-05	NELAP	1.0	1.5	µg/L	1	01/25/2024 18:29	01/04/2024 7:16
24010446-028	A ECDC-06	NELAP	1.0	< 1.0	µg/L	1	01/26/2024 16:17	01/04/2024 7:16
24010446-029	A ECDC-07	NELAP	1.0	1.7	µg/L	1	01/26/2024 16:21	01/04/2024 7:17
24010446-030	A ECDC-08	NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:10	01/04/2024 7:17
24010446-031		NELAP	1.0	10.3	µg/L	1	01/26/2024 16:29	01/04/2024 7:18
24010446-032		NELAP	1.0	9.7	µg/L	1	01/26/2024 16:34	01/04/2024 7:18
24010446-033		NELAP	1.0	1.8	µg/L	1	01/29/2024 10:14	01/04/2024 7:19
24010446-034		NELAP	1.0	3.7	µg/L	1	01/26/2024 16:38	01/04/2024 7:19
24010446-035		NELAP	1.0	5.8	µg/L	1	01/26/2024 17:08	01/05/2024 5:32
24010446-036		NELAP	1.0	6.3	µg/L	1	01/26/2024 17:12	01/05/2024 5:34
24010446-037		NELAP	1.0	1.3	µg/L	1	01/26/2024 17:17	01/05/2024 5:35
24010446-038		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 17:21	01/05/2024 5:36
24010446-039		NELAP	1.0	1.5	µg/L	1	01/29/2024 10:17	01/05/2024 5:36
24010446-040		NELAP	1.0	1.5	µg/L	1	01/29/2024 10:32	01/05/2024 5:36
24010446-041		NELAP	1.0	4.3	µg/L	1	01/26/2024 18:00	01/05/2024 5:38
24010446-042		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 18:04	01/05/2024 5:39
24010446-043		NELAP	1.0	< 1.0	µg/L	1	01/29/2024 10:36	01/05/2024 5:39
24010446-044		NELAP	1.0	< 1.0	µg/L	1	01/26/2024 18:09	01/05/2024 5:41
24010446-045		NELAP	1.0	1.7	µg/L	1	01/26/2024 18:13	01/05/2024 5:43
24010446-045		NELAP	1.0	4.2		1	01/26/2024 18:13	01/05/2024 5:44
24010446-040		NELAP	1.0	4.2 < 1.0	µg/L ug/l	1	01/26/2024 18:21	01/05/2024 5:44
24010446-047					µg/L	1	01/25/2024 9:53	01/05/2024 5:46
24010440-040	A DRE-14	NELAP	1.0	< 1.0	µg/L	I	01/20/2024 9.00	01/03/2024 3.40



Laboratory Results

http://www.teklabinc.com/

Work Order: 24010446

Report Date: 30-Jan-24

Client: Geotechnology, Inc.

Client Project: J044517.01

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	LS BY ICPMS (TOTAL)						
24010446-049	A BRE-15	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 9:57	01/05/2024 5:47
24010446-050	A BRE-16	NELAP	1.0	2.5	µg/L	1	01/25/2024 10:02	01/05/2024 5:48
24010446-051	A BRE-17	NELAP	1.0	2.5	µg/L	1	01/25/2024 10:06	01/05/2024 5:50
24010446-052	A BRE-18	NELAP	1.0	2.2	µg/L	1	01/25/2024 12:29	01/05/2024 5:51
24010446-053	A BRE-19	NELAP	1.0	1.5	µg/L	1	01/25/2024 10:10	01/05/2024 5:52
24010446-054	A BRE-20	NELAP	1.0	1.5	µg/L	1	01/25/2024 10:14	01/05/2024 5:53
24010446-055	A BRE-21	NELAP	1.0	1.3	µg/L	1	01/25/2024 10:18	01/05/2024 5:54
24010446-056	A BRE-22	NELAP	1.0	2.9	µg/L	1	01/25/2024 10:22	01/05/2024 5:55
24010446-057	A BRE-23	NELAP	1.0	1.9	µg/L	1	01/25/2024 10:26	01/05/2024 5:56
24010446-058	A BRE-24	NELAP	1.0	< 1.0	µg/L	1	01/25/2024 10:30	01/05/2024 5:57
24010446-059	A BRE-25	NELAP	1.0	2.8	µg/L	1	01/25/2024 12:01	01/05/2024 5:58
24010446-060	A BRE-26	NELAP	1.0	2.6	µg/L	1	01/25/2024 12:05	01/05/2024 6:00



Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.

Client Project: J044517.01

Work Order: 24010446 Report Date: 30-Jan-24

Carrier: Employee	Rece	ived By: NGR	R	
Completed by: On: 05-Jan-24 Othor Sclout Amber Dilallo		viewed by: On: Jan-24 H	Elled Hopke Ellie Hopkins	nd
Pages to follow: Chain of custody 6	Extra pages include	d 0		
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	Temp °C N/A
Type of thermal preservation?	None 🗸	Ice	Blue Ice	Dry Ice
Chain of custody present?	Yes 🖌	No 🗌		,
Chain of custody signed when relinquished and received?	Yes 🖌	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🔽	No 🗌		
Sample containers intact?	Yes 🔽	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No		
All samples received within holding time?	Yes 🗸	No 🗌		
Reported field parameters measured:	Field	Lab 🗌	NA 🔽	
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌		
When thermal preservation is required, samples are complia 0.1°C - 6.0°C, or when samples are received on ice the sam		e between		
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 be	low or on the	coc.	

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/5/2024 3:02:11 PM

CHAIN OF CUSTODY



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

Client:	Client: Geotechnology, LLC											ICE	E 🕅 BLUEICE 🗐 NOICE °C LTG#									
Address:	11816 Lackland F	Road					P	rese	erve	d in	: 📖	LAB	B FIELD FOR LAB USE ONLY									
City / State	/ Zip St. Louis, MO 63	146					L	ab N	lote	s												
Contact:	Brad Lohrum	Phon	: ⁽³	14) 997	-7440																	
E-Mail: blohrum@teamues.com Fax:							CI	ient	Co	mm	ents	:										
Are these samples known to be involved in litigation? If yes, a surcharge will apply 🛛 Yes 🕱 No								10110	•••			-										
Are these sample	s known to be hazardous?	Yes KNo	in apply	·	,,																	
Are there any req		met on the requested analys	is?. If yes	, pleas	e provid	ė	1															
	Name/Number	Sample Co	loctor	Nan	10			M		iY			INDICATE ANALYSIS REQUESTED									
					10						»											
7044			Brad LahrJM							Spe	Gr	DW -										
Result Standard	s Requested 1-2 Day (100% Surcharge)	Billing Instructions					Aqueous	king /	Sludge	Special Waste	Groundwater	Lead										
Other	3 Day (50% Surcharge)		N H	H2SO4	HCL	NaH OT	eou	s s	dge	N.	dwa	d E										
	Sample Identification	Date/Time Sampled	HNO3 UNPRES	F Q	비위	OTHER NaHSO4	Ŷ	Drinking Water		Iste	ter	E200.8										
Lab Use Only							. /	·		-				_								
2 TU BATU	WBE-60	1/4/24 6:21					X			-		X		_								
012		6.21					X			_		X										
013	62	6:22	1	-			X					X										
014	63	6:22					X					\times										
0.15	64	6:24					X					X										
616	2 65	6:24	1				R					\mathbf{x}										
00	BSES-74	6:45					X					X										
	RCE5-75						x					X										
<u>OY</u>	RCFG .24		}	_			X					X										
	RES-28	6:51	┟╷┟╴╽		-1-1		X	+	-	-		X										
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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.



CHAIN OF CUSTODY

pg. 9 of 25 Work order # 24010440

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

Client:	Geotechnology, L	LC									s	Sam	ple	5 01	n:		CE	🕅 BLUE		NO 🕅	ICE	_		C	°C	LTG	#		_
Address:	11816 Lackland F	Road									P	res	serv	ved i	in:		AB	🕅 FIELD			E	OR	LAB	USE	ON	<u>_Y</u>			
City / State	/ Zip St. Louis, MO 63	146									L	.ab	No	tes															
			_ Phone	Phone: (314) 997-7440						-																			
E-Mail: blohrum@teamues.com Fax:								- Client Comments:																					
Are these sample	s known to be involved in li	itigation? If yes,	a surcharge	will a	pply		🗌 Ye	s	1	No																			
Are these sample	s known to be hazardous?	🗌 Yes 🛛 🛛	No																										
	uired reporting limits to be n nent section. 🏾 Yes 🚺		ested analysi	s?. l	f yes	, ple	ase p	rovic	de																				
Project Name/Number Sample Collector's Name							Т		Ň	AT	RIX					NDIC	ATE	AN/	LYS	SIS R	EQL	JEST	ED			-			
1044	-	sh.						ľ						DW -						Τ	Ι								
	s Requested	Billing Ins	<u> </u>				e of C	onta	iner	s	۶l	Drinking Water		Sludge		Groundwater	<												
Standard] 1-2 Day (100% Surcharge)	Oning no	uouono	c	-		r l	~	z	。	Aqueous	<u>n</u> g	Soil	Sludae		nd	Lead												
Other	🔲 3 Day (50% Surcharge)			UNPRES	No.		H2SO4	MeOH	NaHSO4	ΞĦΈ	Ĕ	¥a†	- [ye ye		vate	E200.8												
Lab Use Only	Sample Identification	Date/Tim	e Sampled	ŝ	Ű	-	^		4	~		ē		â	5	Ä	0.8												
24012444	RES-29	1/4/24	6:51	3							\langle						×									<u> </u>			
(72	RES-20		6:51	}							\mathbf{x}						X												
0.3	ECDC-01		7:12	1							X						K												
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6	05		7:16	Ī							X						X												
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	10																		<u>ر</u>										

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.





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.